



# SNS COLLEGE OF TECHNOLOGY

(Autonomous)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

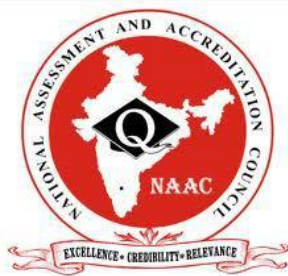
Accredited by NBA – AICTE & NAAC-UGC with 'A' grade

Coimbatore, Tamil Nadu- 641035



## SELF-STUDY REPORT (Cycle II)

*Submitted to*



**National Assessment And Accreditation Council (NAAC)**

An Autonomous Institution of the University Grants Commission

P.O. Box. No.1075, Nagarbhavi, Bengalure – 560 072.

**April 2017**

## TABLE OF CONTENTS

| Criterion No | Description                                                       | Page No.   |
|--------------|-------------------------------------------------------------------|------------|
|              | <b>Preface</b>                                                    | <b>i</b>   |
| <b>A</b>     | <b>Status of the College</b>                                      | <b>iv</b>  |
| <b>B</b>     | <b>Executive Summary - SWOC Analysis</b>                          | <b>vi</b>  |
| <b>C</b>     | <b>Profile of the Institution</b>                                 | <b>1</b>   |
| <b>D</b>     | <b>Criterion Wise Analytical Report</b>                           | <b>16</b>  |
| <b>I</b>     | <b>Criterion I Curricular Aspects</b>                             | <b>16</b>  |
| 1.1          | Curriculum Design and Development                                 | 16         |
| 1.2          | Academic Flexibility                                              | 24         |
| 1.3          | Curriculum Enrichment                                             | 28         |
| 1.4          | Feedback System                                                   | 35         |
| <b>II</b>    | <b>Criterion II Teaching-Learning and Evaluation</b>              | <b>39</b>  |
| 2.1          | Student Enrolment and Profile                                     | 39         |
| 2.2          | Catering to Student Diversity                                     | 50         |
| 2.3          | Teaching-Learning Process                                         | 58         |
| 2.4          | Teacher Quality                                                   | 73         |
| 2.5          | Evaluation Process and Reforms                                    | 83         |
| 2.6          | Student Performance and Learning Outcomes                         | 93         |
| <b>III</b>   | <b>Criterion III Research, Consultancy and Extension</b>          | <b>98</b>  |
| 3.1          | Promotion of Research                                             | 98         |
| 3.2          | Resource Mobilization for Research                                | 106        |
| 3.3          | Research Facilities                                               | 110        |
| 3.4          | Research Publications and Awards                                  | 112        |
| 3.5          | Consultancy                                                       | 120        |
| 3.6          | Extension Activities and Institutional Social Responsibility(ISR) | 125        |
| 3.7          | Collaboration                                                     | 132        |
| <b>IV</b>    | <b>Criterion IV Infrastructure and Learning Resources</b>         | <b>140</b> |
| 4.1          | Physical Facilities                                               | 140        |
| 4.2          | Library as a Learning Resource                                    | 150        |
| 4.3          | IT Infrastructure                                                 | 160        |
| 4.4          | Maintenance of Campus Facilities                                  | 169        |
| <b>V</b>     | <b>Criterion V Student Support and Progression</b>                | <b>171</b> |
| 5.1          | Student Mentoring and Support                                     | 171        |
| 5.2          | Student Progression                                               | 203        |
| 5.3          | Student Participation and Activities                              | 206        |

| <b>Criterion No</b> | <b>Description</b>                                            | <b>Page No.</b> |
|---------------------|---------------------------------------------------------------|-----------------|
| <b>VI</b>           | <b>Criterion VI Governance, Leadership and Management</b>     | <b>214</b>      |
| <b>6.1</b>          | Institutional Vision and Leadership                           | <b>214</b>      |
| <b>6.2</b>          | Strategy Development and Deployment                           | <b>228</b>      |
| <b>6.3</b>          | Faculty Empowerment Strategies                                | <b>237</b>      |
| <b>6.4</b>          | Financial Management and Resource Mobilization                | <b>240</b>      |
| <b>6.5</b>          | Internal Quality Assurance System                             | <b>242</b>      |
| <b>VII</b>          | <b>Criterion VII Innovation and Best Practices</b>            | <b>250</b>      |
| <b>7.1</b>          | Environment Consciousness                                     | <b>250</b>      |
| <b>7.2</b>          | Innovations                                                   | <b>252</b>      |
| <b>7.3</b>          | Best Practices                                                | <b>254</b>      |
| <b>E</b>            | <b>Evaluative Report of the Departments</b>                   | <b>259</b>      |
|                     | Aeronautical Engineering                                      | <b>259</b>      |
|                     | Automobile Engineering                                        | <b>274</b>      |
|                     | Civil Engineering                                             | <b>289</b>      |
|                     | Computer Science and Engineering                              | <b>308</b>      |
|                     | Electrical and Electronics Engineering                        | <b>341</b>      |
|                     | Electronics and Communication Engineering                     | <b>361</b>      |
|                     | Electronics and Instrumentation Engineering                   | <b>390</b>      |
|                     | Information Technology                                        | <b>405</b>      |
|                     | Mechanical Engineering                                        | <b>431</b>      |
|                     | Mechatronics Engineering                                      | <b>461</b>      |
|                     | Master of Business Administration(MBA)                        | <b>485</b>      |
|                     | Master of Computer Applications (MCA)                         | <b>501</b>      |
| <b>F</b>            | <b>Post Accreditation Initiatives</b>                         | <b>525</b>      |
| <b>G</b>            | <b>Declaration by the Head of the Institution</b>             | <b>529</b>      |
| <b>H</b>            | <b>Certificate of Compliance</b>                              | <b>530</b>      |
| <b>I</b>            | <b>Annexure</b>                                               | <b>531</b>      |
| <b>AI</b>           | Approval for Establishment of the College                     | <b>531</b>      |
| <b>AII</b>          | Conferment of Autonomous Status By UGC                        | <b>533</b>      |
| <b>AIII</b>         | Recognition of College Under Section 2(f) of The UGC Act 1956 | <b>535</b>      |
| <b>AIV</b>          | Recognition of College Under Section 12(B) of The UGC Act     | <b>536</b>      |
| <b>AV</b>           | AICTE Approval Order 2016-17                                  | <b>537</b>      |
| <b>AVI</b>          | Anna University Affiliation Order 2016-17                     | <b>542</b>      |
| <b>AVII</b>         | Anna University Ph.D Research Centre Recognition              | <b>543</b>      |
| <b>AVIII</b>        | NBA Accreditation Certificate                                 | <b>547</b>      |

| <b>Criterion No</b> | <b>Description</b>                                                     | <b>Page No.</b> |
|---------------------|------------------------------------------------------------------------|-----------------|
| <b>AIX</b>          | NAAC Accreditation Certificate                                         | <b>549</b>      |
| <b>AX</b>           | NAAC Peer Team Report                                                  | <b>551</b>      |
| <b>1.1</b>          | Details of feedback received from Alumni, Employer and Research bodies | <b>562</b>      |
| <b>1.2</b>          | Courses offered in Modular Form                                        | <b>573</b>      |
| <b>1.3</b>          | Details of Value Added Courses                                         | <b>582</b>      |
| <b>1.4</b>          | Feedback and its Outcome for Curriculum Enrichment                     | <b>587</b>      |
| <b>2.1</b>          | UG/ PG Admission Eligibility and Process                               | <b>594</b>      |
| <b>3.1</b>          | Eminent Experts Visited the College                                    | <b>596</b>      |
| <b>3.2</b>          | Details of Faculty Members actively involved in Research               | <b>603</b>      |
| <b>3.3</b>          | Specialized Research Centre/ Work Station                              | <b>606</b>      |
| <b>3.4</b>          | Faculty Serving as Reviewers of National and International Journals    | <b>607</b>      |
| <b>3.5</b>          | Details of IIPC Activities                                             | <b>609</b>      |
| <b>3.6</b>          | Details of Extension Activities Impacted Students Life                 | <b>616</b>      |
| <b>3.7</b>          | Details of College Neighbourhood Collaborations                        | <b>618</b>      |
| <b>3.8</b>          | Details on Social Survey, Research and Extension Activities            | <b>619</b>      |
| <b>6.1</b>          | Audited Statement of Accounts                                          | <b>622</b>      |



# ***Preface***

## Preface

SNS College of Technology was accredited by the National Assessment & Accreditation Council (NAAC) in the year 2012. NAAC and its assessment criteria have been instrumental in making institutes more conscious of self-appraisals. It gears up the institute to meet the benchmarks laid down in higher education. Ever since the college was accredited, the resolve has been to incorporate all the suggestions put forward by the NAAC team to upgrade the institution. All efforts have helped us to provide better qualitative and contextualized education to the students. It is committed to cater to the societal needs through our well defined goals and the dynamics of academic, research, skill & career oriented courses and extension activities.

The college has a functional Internal Quality Assurance Cell [IQAC] which continuously works towards realization of the goals of quality enhancement and sustenance. Quarterly IQAC meetings are conducted and follow up actions are taken based on the recommendations made. Annual Quality Assurance Reports [AQAR] are submitted to NAAC regularly from 2012-2013 in the prescribed formats. The IQAC has provided its expertise to comply with the queries, recommendations and suggestions made by the NAAC Peer Team. The IQAC plays a major role to improve the quality of the academic, research, co-curricular, extra-curricular and extension activities through various policies and strategic initiatives.

The college is now going through the course of second cycle of accreditation by the National Assessment & Accreditation Council (NAAC). Steering Committee is constituted to co-ordinate the compilation, analysis and interpretation of data related to the various aspects of the institution and its functions to prepare the SSR. The Steering Committee Coordinator studied the entire process of NAAC by visiting the NAAC website, reading NAAC publications, newsletters and talking to the officials in Bengaluru. The Steering Committee, working committee and the IQAC have shouldered the responsibility in the preparation of this SSR. The entire work was planned and responsibilities were allocated. The Management, Director, Principal, Staff Members, Students, Alumni have together contributed to the development of SSR. Subsequently, during number of meetings the entire information was compiled and the first draft of the Self Study Report (SSR) was prepared. This was again discussed at various levels and the final SSR emerged.

During this long journey, to assess its multi faceted activities - we, at SNS Tech. have found the whole process very gratifying. We are able to look at our strengths, weaknesses, opportunities & Challenges objectively. We at SNS Tech. look forward to the stimulating exchange of ideas with the team of experts from NAAC in the near future. We also look forward to improve further to benefit all the stake holders - the students, faculty, academia, industry, alumni and the society at large.

**Principal**

## NAAC – Steering Committee

| S. No. | Name                  | Designation / Department                                  | Role                              |
|--------|-----------------------|-----------------------------------------------------------|-----------------------------------|
| 1      | Dr.S.Chenthur Pandian | Principal                                                 | Chairperson                       |
| 2      | Dr.V.P.Arunachalam    | Director<br>SNS Technical Institution                     | Member                            |
| 3      | Dr.Bamini             | Asst. Director-QA & Projects<br>SNS Technical Institution | Member                            |
| 4      | Dr.L.M.Nithya         | HOD/IT & IQAC Co-Ordinator                                | Steering Committee<br>Coordinator |
| 5      | Dr. S.Poornachandra   | Dean/ EIE                                                 | Steering Committee<br>Coordinator |
| 6      | Dr.J.Kannappan        | COE                                                       | Member                            |
| 7      | Mr.V.S.Maruthachalam  | Administrative Officer                                    | Member                            |
| 8      | Dr.S.Kandasamy        | Dean/ Civil                                               | Member                            |
| 9      | Dr. S.Karthik         | Dean/ CSE                                                 | Member                            |
| 10     | Dr. T.Ravichandran    | Dean/ ECE                                                 | Member                            |
| 11     | Dr. A.Viswanathan     | Dean/ S&H                                                 | Member                            |
| 12     | Dr. G.Manikandan      | HoD/ Aero                                                 | Member                            |
| 13     | Dr.M.Shanmugaraja     | HoD/ Automobile                                           | Member                            |
| 14     | Dr. T.Kalaikumaran    | HoD/ CSE                                                  | Member                            |
| 15     | Dr. C.Ramakrishnan    | HoD/ EEE                                                  | Member                            |
| 16     | Dr. P.Tamilselvam     | HoD/ Mechanical                                           | Member                            |
| 17     | Dr. P.Vivekanandan    | HoD/ Mechatronics                                         | Member                            |
| 18     | Prof. S.Sundararajan  | HoD/ MCA                                                  | Member                            |
| 19     | Dr. P. Krishnaveni    | HoD/MBA                                                   | Member                            |
| 20     | Dr.B.Chellaprabha     | Head- Academics/ S & H                                    | Member                            |
| 21     | Dr.M.Palanisamy       | Chief Librarian/ Library                                  | Member                            |
| 22     | Mr.S.Ravi             | Head/Placement                                            | Member                            |

## NAAC – Working Committee

| S. No. | Name                  | Designation / Department           |
|--------|-----------------------|------------------------------------|
| 1      | Dr.S.Chenthur Pandian | Principal/ Head of the Institution |
| 2      | Dr.L.M.Nithya         | Steering Committee Coordinator     |
| 3      | Dr.D.Mohana Geetha    | Professor/ECE                      |
| 4      | Dr.R.Anuradha         | ASP/Civil                          |
| 5      | Dr.I.Kala             | ASP/CSE                            |
| 6      | Dr.J.Shanthini        | ASP/IT                             |
| 7      | Mr.M.Sasikumar        | AP/Aero                            |
| 8      | Mr.S.Vasanthaseelan   | AP/Auto                            |
| 9      | Mr.R Karthick         | AP/EEE                             |
| 10     | Mr.K.Sambasiva Rao    | AP/EIE                             |
| 11     | Mr.R.Dharmalingam     | AP/Mech                            |
| 12     | Mr.M.Anand            | AP/MCT                             |
| 13     | Dr. S.Viniba          | AP/MBA                             |
| 14     | Dr.R.Sivakumar        | AP/MCA                             |
| 15     | Mr.P .Naresh Kumar    | AP/S&H                             |

# ***Status of the College***

## Status of the College

SNS College of Technology (SNSCT) was established with three Under Graduate programmes in Engineering and Technology in the year 2002 with a student strength of 18. Ever since the inception, SNSCT is committed to establish a centre of holistic education and make the teaching-learning process more meaningful and vibrant. The zeal and dedication with which SNSCT pursues its motto 'Sincerity Nobility Service' makes it different from many of the institutions offering engineering education.

- The college was established with the **approval of AICTE**, New Delhi and Government of Tamil Nadu and is **affiliated to Anna University, Chennai**.
- At present the college offers **14 UG programmes, 10 PG programmes and 4 Ph.D Programmes** with a **student strength of 4043** and **faculty strength of 330**.
- The approved intake of the college is increased from **180 in 2002 to 1524 in 2016**.
- 3 programmes were **Accredited by NBA-AICTE** (B.E Computer Science & Engineering, B.E. Electronics and Communication Engineering and B.Tech. Information technology) in the year 2008.
- Received (i) **Re-Accreditation by NBA** for 3 years for the above 3 UG programmes in 2014 and (ii) two new programmes got NBA accreditation in 2014. (B.E. Mechanical Engineering, B.E. Electrical & Electronics Engineering)
- **4 departments [CSE, EEE, CIVIL & MECH]** are recognized as **research centre by Anna University, Chennai**.
- Received **UGC 2(f) Status** in the year 2009.
- Conferred with **Autonomous status** in the year **2012** by UGC.
- **Accreditation by NAAC** in the year **2012** with the highest '**A**' Grade
- **Functional Internal Quality Assurance Cell [IQAC]** from 2012.
- Recognized by UGC with **12(B) status** in the year **2015**.
- Within a short span of 15 years the institution has become one of **the largest institutions in terms of intake** among the self-financing engineering colleges in Coimbatore District.
- The college got ranked 20<sup>th</sup> during 2004 among 227 Engineering colleges in Tamil Nadu for its academic achievements.
- In 2012, SNSCT is one among the 18 Engineering Colleges in Tamil Nadu accredited with NAAC and one among the 8 Engineering Colleges awarded with the highest grade of 'A' by NAAC-UGC out of 550 colleges.
- The college is one among the 27 Autonomous Engineering colleges in Tamilnadu out of 550 colleges.

- SNSCT is one among the 52 Engineering Colleges in Tamil Nadu having UGC 2(f) and 12(B) approval
- The college is in the top positions in terms of ranks obtained in the Anna University results (**86<sup>th</sup> position** among 522 colleges in Apr/May 2015 and **66<sup>th</sup> position** among 516 colleges in Nov/Dec 2015 exam Results).
- The college was awarded with “**Best performing Institution of the year 2014**” award in 6<sup>th</sup> International achievers summit at Bangkok.
- The college has been ranked **62 in the top private engineering colleges of the Country** and **116 in the top engineering colleges of the Country** in the ‘*The Week-Hansa Research Best Colleges Survey 2014*’.
- Our college is also **ranked 19<sup>th</sup> position** in the **Top 25 Engineering Colleges for Excellent Faculty** - the Higher Education Review, July 2015.
- Our college is awarded with the “**Best Engineering College for Industry Interface-India, 2015**” by Centre for Education, Growth & Research(CEGR), New Delhi.
- Our college is also ranked **30<sup>th</sup> position in the Top 100 Private Engineering Colleges Survey 2015** - the Higher Education Review.
- The college is Rated as “**AA**” (**Good Quality Institution**) among 3600 plus Engineering Colleges in the country in a survey carried out by *CAREERS 360 Magazine*.
- The college is approved by UGC to establish Deen Dayal Upadhyay centres for Knowledge Acquisition and Upgradation of Skilled Human Abilities and Livelihood. [DDU KAUSHAL] to conduct B.Voc and M.Voc programmes in Plumbing and Logistics & Supply Chain Management with an intake of 50 in each programme.
- To our credit our students hold 2 Guinness World Records and 2 Limca book of records.
- Music Club Vibes got 5<sup>th</sup> position among 119 colleges across the nation in Ragam 2012 at NIT Calicut.

# *Executive Summary*



## **EXECUTIVE SUMMARY**

***“SNSCT is a Faculty Friendly - Students centric - Academically Rigorous - Research Intensive - Career Driven - Socially Responsible Institution”***

**SNS College of Technology (SNSCT)**, Coimbatore is an outstanding Institution in the state of Tamilnadu committed to produce world class technocrats with high caliber and professionalism by inculcating Engineering and Technological education under one roof. SNSCT was founded in 2002 by Sri SNS Charitable Trust, Coimbatore, Tamil Nadu, India. The SNS Group established the Sri SNS Charitable Trust in the year 1997 with a philanthropic outlook of serving the society in the fields of education, health and industry. The Trustees, with rich experience and wide knowledge in Industry, Medicine and Higher education, dedicated themselves to provide quality technical education of global standards with a view ‘to give back to the society’ that nurtured them.

### **The members of the Trust are**

1. Dr. S.N. Subbramanian, M.Tech.,Ph.D.,MBA.,M.Phil.,Ph.D - Chairman
2. Dr. S. Rajalakshmi, B.Sc., M.B.B.S., DGO. - Managing Trustee
3. Dr. V.S. Velusamy M.Sc., M.Ed., M.Phil., Ph.D - Trustee

**Dr. S.N. Subbramanian**, a dynamic industrialist and a multi-faceted personality has over 40 years of experience and expertise in running several industries like Textile Mills, Exports, Knitting Mills, Datascribe & Software, Petrofil Service and various educational Institutions. At present the SNS Group is governing the following educational institutions viz. (1) Dr. SNS Rajalakshmi College of Arts and Science (1999) – Re-Accredited with ‘A’ Grade by NAAC, (2) SNS College of Technology (2002) - Accredited by NBA (AICTE, New Delhi) (3) SNS College of Engineering (2007) Accredited with ‘A’ Grade by NAAC, (4) Dr. SNS College of Education (2007) Accredited with ‘A’ Grade by NAAC and (5) SNS Academy – An international CBSE school. About 10000 students are undergoing various UG, PG and doctoral programmes and more than 1000 faculty members are contributing to the development of education.

**Dr. S.N. Subbramanian** through his vision, hard work, along with the support of other trustees and a qualified team of Professionals has pioneered the growth and leadership of the SNS family. He works enthusiastically for the upliftment of the rural people. He has been awarded the title ‘**Outstanding Engineer Award**’ for the year 2009 from the Institution of Engineers – Coimbatore Chapter, India and ‘**Best Edupreneur Award**’ twice from The Times of India. In a span of 18 years, Dr. S.N.Subbramanian has established institutions that are now one of the finest in the state and nation.

**Dr. S. Rajalaksmi**, a medical practitioner is the Joint Managing Director of Surana Textile Ltd and also the correspondent of SNS Educational Institutions. Deeply interested in social and educational activities she involves herself with all the activities of all colleges under the trust.

**Dr. V.S. Velusamy**, Trustee, Chairman KV Institutions, is an educationist with more than three decades of rich teaching, research, and administrative experience.

In addition to the above three personalities, **Dr. S. Nalin Vimal Kumar** functioning as Technical Director of SNS Institutions is spearheading all the technical developments, infrastructure developments and placement activities not only for the academic excellence but also to groom the students to be industry ready engineers.

The accomplishments of the companies under the management of the group are extremely good and are comparable to the top ones in the field. SNS College of Technology is well structured in a beautiful environment with the best infrastructural facilities. The campus spreads over an area of 10.125 acres, with a built up area of 63,923 sq.mt., housing the required Class Rooms, Computer Centres, Laboratories, Seminar Halls, Libraries, Administrative block and other basic amenities like hostels & toilets for both genders.

The college is approved by AICTE, New Delhi by its letter No. F.No. 730-52-452(E)/ET/2002 dt. 02.08.2002. It is affiliated to Anna University; Chennai. The college was conferred with Autonomous status in the year 2012 by UGC. The college has obtained 2(f) status of UGC in August 2009 and 12(b) status of UGC on 28.08.2015. It is a self – financed and co-educational college with the motto of Sincerity, Nobility and Service. The college has been accredited by NAAC-UGC with ‘A’ grade and 3 UG programmes [CSE, ECE, IT] have been re accredited by NBA and 2 UG programmes [MECH & EEE] have been accredited by NBA-AICTE newly.

SNSCT offers 13 B.E Programmes, 1 B.Tech Programme, 7 M.E Programmes, 1 M.Tech Programme in Engineering and Technology, 1 Programme in Management viz MBA & 1 in Computer Applications viz MCA (Total 24). The College has a congenial and conducive atmosphere for holistic learning and growth. Apart from academic activities, the College is taking substantial steps towards achieving excellence in Research and Development. The Departments of Mechanical Engineering, Computer Science and Engineering, EEE and Civil Engineering have been recognized as Research Departments by Anna University for doing research works leading to Ph.D. degree.

Governing Council of the college has been instrumental in the development of all the academic affairs of the college, including faculty development, academic planning, instructional issues, students services, co-curricular activities, and discipline and so on. In addition the Academic Council has endeavored and ensured that the best practices are implemented and that the standards are maintained.

## **CURRICULAR ASPECTS**

As an Autonomous college SNSCT enjoys the independence to frame curriculum by utilizing the expertise of eminent academicians from universities, other institutions and industries and to devise the methods of teaching, examination and evaluation. Autonomous colleges play a major role in academic advancements through Curriculum Design and Development, and thus are expected to have processes, systems and structures in place to shoulder this responsibility. Having this in mind, the college has put in place a clearly stated processes, systems and structures to meticulously plan and execute academic initiatives and advancements.

At SNSCT, curriculum design and development is an important process involving several stages wherein different stake holders are involved. The Curriculum Design and

Development of all the Undergraduate (UG) and Postgraduate (PG) programmes are planned in accordance with the Vision, Mission, Programme Educational Objectives PEOs and Programme Outcomes (POs). The process of developing appropriate need-based curricula for new programmes and revision of existing courses is done with the consultation of expert groups and feedback from stakeholders. The curriculum therefore has the flexibility, to suit the professional and personal needs of the students. The College adopts Outcome Based Education (OBE) system from 2013-2014 onwards, which ensures that students achieve predefined outcomes of the programme of study. Each programme has a set of Programme Educational Objectives (PEOs) and Program Outcomes (POs) which are framed to ensure that the expectations of all stakeholders are being addressed. Attainment of learning outcome by students is measured appropriately. Feedback on curriculum is received from academic experts working in reputed institutions both in India and Abroad which helps to prepare the curriculum benchmarked to global standards. In addition to this, feedback are also collected from students, faculty members and industrial experts on curriculum

In the Anna University system, the academic flexibility was limited and only four electives (2 % of the total credits) were offered in the curriculum. As an improvement in academic flexibility, six electives are offered for the students admitted in the academic year 2014-15. In the latest curriculum of CBCS, adopted from 2015-16 the academic flexibility is further increased and seven professional electives and three open electives are being offered. The autonomy also helps the college to bridge the Industry academia gap in curricular aspects to a large extent by means of one credit course, online course etc. The college ensures that the curriculum developed addresses the needs of the society and helps for community and National development.

## **TEACHING-LEARNING AND EVALUATION**

The college follows transparent policies for admission and maintaining gender ratio besides reservation policies stated by the Government. Gender equity and admission opportunities for differently-abled students are also given due importance. The admission committee makes recommendation based on the need and demand, regarding increasing intake of the existing programmes such as Mechanical Engineering and/ or introducing new programmes such as Automobile Engineering, Agriculture Engineering, Biomedical Engineering, Civil & Planning and Mechanical & Automation.

At the beginning of each semester, the academic calendar with all essential details is distributed to all students and faculty members for planning the activities. The time table and the course plan are prepared well in advance. The faculty members are assigned courses based on their competency, subject expertise and experience. Each faculty member prepares the structured lesson plan, detailed course materials, complete question bank for theory subjects and lab manual for practical subjects. These details are uploaded in the SNS Courseware before starting the course which enables the students to refer and prepare at their convenience. A course file for each course handled by the respective course teacher with all details and materials is maintained as per guidelines given by IQAC.

The college has established a Centre for Learning and Teaching (CLT) with the vision to provide holistic learning experience to the students. The centre motivates and trains the

faculty to excel in teaching and learning process through the use of various teaching methodologies and to implement new teaching such as ICT enabled lectures, flipped classroom, jigsaw method, think-pair-share, Analogy etc. Brain storming sessions, group discussions, activity based learning, project and problem based learning, industrial visit, industrial expos, industrial exhibition are organized to ensure that the student learning is appropriate.

Teaching-learning is made more interesting and effective by the use of illustrations, power point presentations, virtual laboratories, e-learning, open educational resources etc. The campus is enabled with 24×7 Wi-Fi connectivity which enables mobile learning. Language Lab is furnished with 60 systems with Globerena software which helps the faculty members to enhance the students' communication skills.

Outcome based education (OBE) is implemented in all programmes and Vision, Mission, Program Educational Objectives (PEO) and Program Outcomes (PO) are formulated. In addition to this, each course has five Course Outcomes (CO) which are assessed through students evaluation. Each programme has constituted a Programme Assessment Cell (PAC) where the Dean, HoD, academic members from reputed institutions, industrial experts, alumni, and faculty are members. The cell is responsible to analyze the performance of each student at the end of semester and suggest remedial measures for further improvement. Student attainment of learning outcomes is measured by checking the level of CO and PO attainments.

The college has qualified and experienced faculty members with a staff student ratio of 1:15. The college faculty strength is 330, with 49 Ph.Ds, 88 members pursuing Ph.D. and 193 members with M.E./ M.Tech./ MCA/ MBA/ M.Phil/ M.Sc. The faculty members pursuing research are encouraged by providing them the required equipments, books, journals, necessary on duty leave for attending to research work, financial assistance for attending and publishing papers in journals and conferences. To update their knowledge, faculty members are deputed to Faculty Development Programmes, conferences, seminars and workshops. Faculty Development Programmes are conducted periodically for both teaching and non-teaching staff to enhance their potentialities as well as skill.

The college follows tutor-ward system for counseling, mentoring and to improve the academic performance of the students. Each class has a class advisor who also acts as a tutor for a set of students. Each tutor is allotted with 15 to 25 students to provide academic, personal and socio- psychological support and guidance. Class Committee meetings are conducted twice during the semester to collect feedback on syllabus coverage and other difficulties faced by the students. Based on the feedback, appropriate remedial measures are put into practice to improve the performance of the students. The major decisions/ improvements done based on the feedback received are communicated to the students.

To ensure appropriate and adequate availability of quality faculty members, the recruitment process is rigorous consisting of online tests, group discussion, class room teaching, interview with HoD and subject expert and finally Management interview. Once recruited, new faculty members are trained towards the SNS philosophy of student centric Teaching and Learning practices.

A three tier feedback system (by student, HoD and Principal) for evaluating the teachers is in place. The Self-appraisal system is put in place which helps the college to evaluate the teachers on an annual basis. Academic audit systems have also been in practice which is conducted twice a year, to check and monitor the performance of all academic activities. In addition, feedback from the students is obtained for each course at the end of the semester which forms the input for further revision.

The college has a systemized examination process laid down by the Controller of Examinations (COE). The students are evaluated based on their performance in Internal Assessment Examinations, Online examination, Class tests, Model examination, Assignments, Tutorials and End Semester Examination. As an innovative practice star of IA and end semester examinations are displayed in the notice board.

### **RESEARCH, CONSULTANCY AND EXTENSION**

The College has a core Research & Development Cell to initiate and monitor the Research and Development activities. The departments of Civil, CSE, EEE and Mechanical are recognized as research centers by the Anna University. Research & Development Cell has well defined policies to promote Research through which the Management sanctions Rs. 30 Lakhs every year for Research and Development. All Ph.D holders are motivated to obtain supervisor recognition from Anna University and the faculty members who do not possess Ph.D degree are advised to register for research work. 21 faculty members are recognized supervisors by Anna University and 88 faculty members have registered and are pursuing their Ph.D.

In order to improve the scientific temper, the faculty members are encouraged by providing cash award and appreciation certificate for publishing papers in reputed National and International Journals. 940 papers have been published in refereed journals with impact factor ranging from 0.07 to 7.82 and 938 papers have been presented in Conferences in which Rs. 2,19,000 has been offered as incentive money.

In addition Research and Innovative clubs are initiated to utilize the seed money scheme introduced by the management to students and faculty members for developing innovative projects. The seed money sanctioned during 2016-17 is Rs. 6,79,500 for 35 projects. Research and Development Cell monitors and guides the departments to execute the projects undertaken from the funding agencies / Industries / Research Institutes by the faculty members/ students. The sanctioned/received fund from various funding agencies is Rs 53.23 Lakhs during the last 4 years.

The institution actively promotes interdisciplinary research by encouraging the students and faculty members to take up research projects. The College has organized 16 National Conferences and 2 International Conferences during the last 4 years. The College takes special efforts to encourage faculty to file for patents in which 5 patents are filed in last 4 years. The College takes efforts to facilitate research with all resources like Research laboratories, digital library and residential facilities for research scholars and faculty members with computers, internet facilities with 100 Mbps bandwidth and enabled 24X7 Wi-Fi facility.

The College publishes a National Research Journal “Journal of Finance” with 2 issues per year. Besides, Faculty members of the College extend their services as reviewer for 56 National & International Journals in the editorial board. Faculty member’s publication with Scopus indexed is 750, Google Scholar citation is 2784, Citation Index Ranging from 1 to 727, SNIP value from 0.01 to 1.5, SJR is from 0.105 to 0.939 and h-index ranging from 1 to 16. The College has instituted the research award for faculty publications and for obtaining research grants from external bodies.

The College has an Industry Institute Partnership Cell (IIPC) which has signed Memorandum of Understandings (MoU) with 189 National and International Universities/Industries to carry out collaborative research. Through consultancy services, the total revenue generated in last 4 years is Rs.7.99 Lakhs. The Institution is also actively involved in extension activities to help society by its services. The College sensitizes its faculty members and students on Institutional Social Responsibility activities through structured forums like NSS, NCC, YRC, RRC, SNS Social Responsibility Initiatives (SNS S.R.I) and Clubs and Societies. Many recognition and awards are received for various extension activities from University, State level agencies and NGOs.

## **INFRASTRUCTURE AND LEARNING RESOURCES**

The College is located in a serene atmosphere very near to the City on Sathy Main Road (NH209) road, Coimbatore. The extent of the campus is 10.125 acres completely encompassed by a compound wall. The Campus houses the required Class Rooms, Computer Centres, Laboratories, Seminar Halls, Libraries, Administrative block and other basic amenities – hostels & toilets for both genders in 63,923 square meter of built-up area. The playground with provisions for indoor and outdoor games is made available on the campus and is utilized by the students who practice on a daily basis. The college has the well-defined policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment. The College Institution Development and Monitoring Cell (IDMC) have the overall responsibility for planning and adequate maintenance of the campus.

Vivekananda Library (Central Library) is housed in a separate, fully furnished block and has adequate stock of books, magazines, National and International journals, e-journals like IEEE, DELNET etc., which are managed by the chief Librarian. College Library Advisory Committee takes care of planning, adequate availability and maintenance of the library. Feedback from the users and suggestions from the committee members are given due importance and actions are initiated immediately. As a unique feature for student’s career and development activities and to groom them towards the placement activities 7300 books are made available exclusively. ‘Best Library User Award’ is instituted and awarded to both students and faculty members every year. Library provides both General and Business newspapers on a daily basis in the classrooms to improve the students General Knowledge and capabilities. The Library has subscribed the IEEE All-Society periodical Package which includes 169 Nos. and DELNET Database – 1330 Nos. of e-journal packages. The library is automated with Lips-i-net management software for ease transaction and circulation of books through Bar-coded ID cards. The library has 25 computers for student access with a speed of 100 Mbps and 2 printers. Average amount spent for the library during past five years is 20.46



Lakhs. The college main library has 55,202 books and 1,499 e-journals. The College has provided with more than 1267 computers with LAN and UPS facilities and 20 Air-conditioned laboratories for students to work during working hours and after working hours.

The computer centers are equipped with high-end computers, accessories such as Laser, Inkjet and Dot matrix printers, scanners, LCD and OHP projectors are available. The College has in-house Computer Maintenance Cell (CMC) for maintenance of computers and all other electronic laboratory equipment. Adequate financial allocations are made for internal maintenance work of all infrastructures. Every year, approximately 30 Lakhs is spent for maintenance of College Infrastructure. The campus is fully enabled with Wi-Fi in the speed of 100 Mbps. The college has 89 licensed and open source software in various departments. As per AICTE norms, 857 system and 86 printers are needed but college is equipped with 1267 systems and 129 printers. Computer and student ratio 1:4. In every department, ICT-enabled classrooms are available internet connectivity for enhancing the teaching-learning process. The college has 64 LCD Projectors and 12 OHP to enhance the teaching & learning. CCTV cameras are installed in the college premises to monitor the campus activity and maintain security. Smart Classrooms with interactive boards are available in 4 blocks for effective delivery of contents.

Hostels are built with conducive ambience for study purpose and with due provision for future expansion. Separate boys and girls hostels are constructed to accommodate 800 boys and 700 girls and are taken care by the Residential and Academic wardens, senior faculty members and Principal. The dining halls with modern kitchen are maintained in hygiene condition. The facilities like newspapers, TV Hall, Gymnasium is provided to the students to feel as 'Home away from Home'. Hostel day celebrations are conducted every year separately in the boys and girls hostels. A Canteen and a Coffee Day outlet are provided to cater the needs of the students and faculty members. Health care centers, Postbox, ATM Centre, Telephone facilities, department store are also available to cater the needs of the faculty and students. Fully furnished executive hostel rooms are also available for the students. SNS Trust Subbana Gounder Clinic – A medical service unit of Sri SNS Charitable Trust started in the year 2014 provides medical facilities to students and public. The clinic has a doctor and a nurse to provide medical treatment to needy people at free of cost.

## **STUDENT SUPPORT AND PROGRESSION**

The student support and mentoring initiatives of the college are facilitated through Tutor Ward System, Skill & Career Development, Grievance Redressal Cell and Youth Parliament. The college provides financial assistance every year in the form of scholarships and concessions. The college provides single / no parent scholarship for eligible students. Academic toppers of each branch and each class in each semester are encouraged with a scholarship worth of 50% of their fees. In addition, the college supports with certain fee concession to the needy students based on their economic background. During the year 2016-17, 238 students are benefitted through these scholarships worth of Rs.71.75Lakhs. Seed money of Rupees One lakh is allotted by the management to the students every year for the innovative projects. The personal enhancement and development of students is achieved through Skill and Career Development cell, Act on Dream (AOD) clubs, Entrepreneurship Development Cell (EDC) and Professional societies like SAE, CSI, ISTE, IE(I), IEEE. The

College provides academic mentoring for continuous monitoring of student performance and guiding them to enhance their learning experiences and career growth through Tutor Ward system, Class Committee meeting and Mandatory office hours. The students are given training in Communication & Soft skills, Quantitative & reasoning ability and verbal aptitude to develop the skill & knowledge. Company specific training is also provided to the students during placement drives.

The college has a strong industry-institute interaction through Industry Institute Partnership Cell (IIPC) and signs agreements and MoU's with various industries, placement agencies for the enhancement of the placement status of the college. The IIPC having effective relationship with industries which promotes students knowledge to suit current industrial requirements During this academic year 431 students have been placed (till Odd Semester) in various Tier I and Tier II companies. 49 on campus 22 off campus recruitment drives have been conducted and 53 IT based and 18 core companies have recruited the students. Highest salary offered during this year is 5.0 Lakhs per annum.

Entrepreneurship Development Cell has been established through AICTE funding of Rs.5,25,000/-in order to bring out the entrepreneurship spirit among the students. A structured SNSCT Alumni Association makes a platform between students and industries to know the career opportunities and skills set required to meet the industrial requirements. Various clubs are created to help students take up competitive exams, some of which are GATE club, UPSC/TNPSC club, GRE club etc which facilitates National and International level competitive examinations. All the departments publish Newsletters annually in addition to the annual report of the college.

The college provides financial support to the students participating National/ International events. The students have also been supported and encouraged to participate in sports, games and cultural events. The college has a policy to provide group insurance to all the students of the college.

## **GOVERNANCE, LEADERSHIP AND MANAGEMENT**

The Vision and Mission are the beacons guiding every aspect of the institution's academic process. The Vision of our college is conceptualized to reflect the provision of good quality education in bringing about individual transformation that finally supports building a better society. The college's organizational structure is as per standard norms of UGC and AICTE for Autonomous self-financing higher educational institutions. Visionary leadership, Participative management and involvement of various academic committees ensure the effective implementation of institutional plans, policies and procedures.

Governing Council has been constituted as per the guidelines of UGC and AICTE consisting of Educationists, Industrialists and Administrators, whose vast experience provide guidance in the developmental activities of the College, its future planning and improvement. The Chairman of the college, Dr. S.N. Subbramanian, a well-known industrialist and a reputed educationist who has always thrived for the promotion and growth of quality education is also the Chairman of the Governing Council. The Principal Dr. S. Chenthur Pandian is the ex officio secretary of the Governing Council. He is the Academic and Administrative head of the college and responsible for the implementation the Vision and



Mission of the college. Participation and transparency of all staff are ensured through decentralization, delegation, bottom-up planning and departmentalization of curricular and co-curricular activities and provision of students services. The college also strives to bring eminent faculty members to the campus for the benefit of the academic community. The management has developed many strategies and deployed them to attract and retain trained qualified faculty which includes incentives for the individual development, on – duty leave, leave for higher studies, transport facilities, group insurance, and admission to the son/daughter in the educational institutions under SNS Group of Institutions and also provides fee concession.

The college follows rigorous Quality Assurance (QA) processes that pave the way for ensuring academic excellence. The Internal Quality Assurance Cell (IQAC) comprising of the Principal, Director of Quality Assurance, IQAC Co-ordinator & Heads of the departments are responsible for the effective implementation of the Internal Quality Assurance processes. IQAC ensures quality initiatives in the fields of academics, research and extension programs through effective, efficient and progressive performances in academics, administration and finance. Centre for Teaching and Learning (CLT) is responsible for promoting excellence in teaching and enhancing and assuring the quality of teaching and learning in the Institution. IQAC and CLT work in tandem with each other to achieve the college Vision, Mission and Students' Centric Learning Philosophies of the college.

Students and their parents' constructive suggestions lend scope for self – introspection. The college gets the self-appraisal report from faculty with a view to strengthen their professional competence and teaching skill. The college prepares yearly consolidated budget for allocation of funds for optimal utilization of available resources. The financial resources are monitored as per the Budget Proposal and Approved in the Budget Approval Meeting and are regularly audited by qualified auditors. The financial resources are mobilized through the tuition fees, the grants from funding agencies like UGC, DST, DRDO, etc, the sponsorships obtained from Societies and Government organizations, funds generated through Consultancies and funds from Management and the SNS Trust.

## **INNOVATIONS AND BEST PRACTICES**

The operations and activities of the administrative and academic systems are closely monitored by the Governing Council, Internal Quality Assurance Cell, Planning and Monitoring board, Management Meeting with Principal, HODs and Faculty members, department meeting, class committee meeting etc. The institution displays sensitivity to issues like climate change and environmental issues. It adopts environment friendly practices and takes necessary actions such as – energy conservation, rain water harvesting, waste recycling, etc. The institution is geared to promote an ambience of creativity innovation and improving quality.

Efficient leadership and support provided by the proficient management, contribution made by the faculty and staff, support by the various stakeholders and responsiveness of the students contribute to the development of the core value as specified by NAAC.

# ***SWOC Analysis***

## SWOC Analysis of the College

### Strengths:

- Autonomous status granted by UGC and Anna University
- Recognition by UGC under sections 2(f) and 12(B)
- Accreditation and Re-Accreditation by NBA –AICTE
- Permanent Affiliation by Anna University
- Offering programmes in varied areas
- Implementation of Choice Based Credit System & Outcome Based Education
- Freedom to introduce new courses and to have curriculum enrichment
- Catering to diverse students from varied backgrounds
- Student Centric teaching methodology with more ICT engagement.
- Transparency in admission process
- Implementation of Blooms Taxonomy in Syllabus framing, Content delivery and Evaluation.
- Committed, well qualified and competent faculty.
- Appropriate feedback mechanism for continuous quality improvement.
- Conducive atmosphere to carryout research
- Recognized research centres by Anna University
- Financial Contribution by Management for research and development
- Sharing of benefits in Consultancy activities
- Well maintained wide sprawling campus with state of the art infrastructure.
- Central Library with wide collection of books, Journals, Magazines etc.
- Collaboration with Foreign University, Industries and NGOs
- Open Auditorium with a seating capacity of 6000
- Skill and Career Development Cell for training activities.
- Strong academic mentoring and personal counseling system.
- Excellent input quality of students and high campus placement.
- Multiple clubs that enable holistic development of students
- Student engagement in academic and administrative activities
- Financial assistance by management scholarship scheme.
- Proactive management
- Functional IQAC for quality enhancement and sustenance
- Wide spread campus with greenery.

- Environment friendly practices such as rain water harvesting, waste recycling, energy conservation, etc
- Ambience of creativity and innovation

**Weakness:**

- Regulation restriction by parent university
- Minimum core placement due to students interests in IT industries
- Scope of commercializing the research outcomes
- Lack of interest among students in taking up competitive examinations due to good placement opportunities.
- Being a Self-Financing Institution no funds from Government.

**Opportunities:**

- Creation of “Centers of Excellence” and “Industry sponsored laboratories” in all departments.
- Collaborating with institution and universities inside and outside India for joint research and continuing education.
- Intellectual Property culture among Faculty and students
- Offering courses through MOOC

**Challenges:**

- Getting more funded projects and consultancy.
- Improving the English proficiency of students.
- Faculty retention due to the existence of a large number of engineering institutions.
- Reduced reading habit among students.
- Setting up sponsored Technology Business Incubators.

**Future Plans:**

1. To get Deemed University Status
2. To offer twinning programme along with foreign industries
3. To establish Centre of Excellence in the area of Robotics, Bio-Medical Instrumentation and Non-Conventional Energy sources
4. To promote more startup companies within the campus for enhancing entrepreneurial skill.

# ***Profile of the Institution***

## Profile of the Autonomous College

### 1. Name and Address of the College:

|           |                                                        |               |                    |
|-----------|--------------------------------------------------------|---------------|--------------------|
| Name :    | SNS College of Technology                              |               |                    |
| Address : | SNS Kalvi Nagar, Sathy Main Road, Saravanampatti Post, |               |                    |
| City :    | Coimbatore                                             | Pin : 641 035 | State : Tamil Nadu |
| Website : | www.snsct.org                                          |               |                    |

### 2. For communication :

| Designation                      | Name                  | Telephone with STD code | Mobile     | Fax          | Email               |
|----------------------------------|-----------------------|-------------------------|------------|--------------|---------------------|
| Principal                        | Dr.S.Chenthur Pandian | O:0422-6465204          | 9443791005 | 0422 2665138 | principal@snsct.org |
| Steering Committee Co-ordinators | Dr.L.M.Nithya         | O:0422 2666264          | 9994681177 | 0422 2665138 | iqac@snsct.org      |
|                                  | Dr.S.Poornachandra    |                         | 9444302902 |              | hodeie@snsct.org    |

### 3. Status of the Autonomous College by management.

I Government

II Private

III Constituent College of the University

|   |
|---|
|   |
| ✓ |
|   |

### 4. Name of University to which the College is Affiliated

Anna University, Chennai

### 5. a. Date of establishment, prior to the grant of 'Autonomy'

(02 / 08 / 2002)

### b. Date of grant of 'Autonomy' to the College by UGC:

(17 / 08 / 2012)

Refer Annexure AI and AII

**Type of Institution:****a. By Gender**

|      |                     |   |
|------|---------------------|---|
| i.   | For Men             |   |
| ii.  | For Women           |   |
| iii. | <b>Co-education</b> | ✓ |

**b. By Shift**

|      |                |   |
|------|----------------|---|
| i.   | <b>Regular</b> | ✓ |
| ii.  | Day            |   |
| iii. | Evening        |   |

**c. Source of funding**

|      |                       |   |
|------|-----------------------|---|
| i.   | Government            |   |
| i.   | Grant-in-aid          |   |
| ii.  | <b>Self-financing</b> | ✓ |
| iii. | Any other             |   |

(Please specify)

**7. It is a recognized minority institution?**

|           |   |
|-----------|---|
| Yes       |   |
| <b>No</b> | ✓ |

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

|                       |
|-----------------------|
| <b>Not Applicable</b> |
|-----------------------|

**8. a. Details of UGC recognition:**

| Under Section     | Date, Month & Year<br>(dd-mm-yyyy) | Remarks(If any)                                                                                      |
|-------------------|------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>i. 2 (f)</b>   | 20-08-2009                         | UGC Letter F.No. 8-121/2009 (CPP-I) dated August 2009, Refer <b>Annexure A III</b>                   |
| <b>ii. 12 (B)</b> | 28-08-2015                         | UGC Letter F.No. 8-121/2009 (CPP-I/C) dated 28 <sup>th</sup> August 2015, Refer <b>Annexure A IV</b> |

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

**b. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)**

| Under Section/clause |                          | Day, Month and Year (dd-mm-yyyy) | Validity  | Programme/ institution                           | Remarks      |
|----------------------|--------------------------|----------------------------------|-----------|--------------------------------------------------|--------------|
| i                    | AICTE, New Delhi         | 19.05.2016                       | One Year  | B.E., B.Tech, M.E., M.Tech, MBA, MCA             | 2016-17      |
| ii                   | Anna University, Chennai | 21.04.2014                       | Permanent | B.E., Computer Science and Engineering           | From 2013-14 |
|                      |                          |                                  |           | B.E. Electronics and Communication Engineering   |              |
|                      |                          |                                  |           | B.Tech Information Technology                    |              |
|                      |                          | 23.02.2016                       | Permanent | B.E Electrical and Electronics Engineering       | From 2015-16 |
|                      |                          |                                  |           | M.E Computer Science and Engineering             |              |
|                      |                          |                                  |           | MBA                                              |              |
|                      |                          | 14.05.2016                       | One Year  | B.E. Aeronautical Engineering                    | 2016-17      |
|                      |                          |                                  |           | B.E. Automobile Engineering                      |              |
|                      |                          |                                  |           | B.E. Civil Engineering                           |              |
|                      |                          |                                  |           | B.E. Electronics and Instrumentation Engineering |              |
|                      |                          |                                  |           | B.E. Mechanical Engineering                      |              |
|                      |                          |                                  |           | B.E. Mechatronics Engineering                    |              |
|                      |                          |                                  |           | B.E. Agriculture Engineering                     |              |
|                      |                          |                                  |           | B.E. Civil Engineering and Planning              |              |
|                      |                          |                                  |           | B.E. Mechanical and Automation Engineering       |              |
|                      |                          |                                  |           | B.E. Bio-Medical Engineering                     |              |
|                      |                          |                                  |           | M.E. Structural Engineering                      |              |
|                      |                          |                                  |           | M.E. Software Engineering                        |              |
|                      |                          |                                  |           | M.E. Power System Engineering                    |              |
|                      |                          |                                  |           | M.E. Communication Systems                       |              |
|                      |                          |                                  |           | M.E. VLSI Design                                 |              |
|                      |                          |                                  |           | M.E. Thermal Engineering                         |              |
|                      |                          |                                  |           | M.Tech. Information Technology                   |              |
|                      |                          |                                  |           | MCA                                              |              |
| iii                  | Anna University, Chennai | 17.02.2016                       | 3 Years   | Ph.D Civil Engineering                           |              |
|                      |                          | 05.03.2016                       | 3 Years   | Ph.D Computer Science and Engineering            |              |
|                      |                          | 21.08.2014                       | 3 Years   | Ph.D Electrical and Electronics Engineering      |              |
|                      |                          | 17.02.2016                       | 3 Years   | Ph.D Mechanical Engineering                      |              |



| Under Section/clause |                                                      | Day, Month and Year (dd-mm-yyyy) | Validity         | Programme/ institution                         | Remarks               |
|----------------------|------------------------------------------------------|----------------------------------|------------------|------------------------------------------------|-----------------------|
| iv                   | <b>National Board of Accreditation</b>               | 08.07.2016                       | 2 Years + 1 Year | B.E., Computer Science and Engineering         | Valid till 30.06.2017 |
|                      |                                                      |                                  |                  | B.E. Electronics and Communication Engineering |                       |
|                      |                                                      |                                  |                  | B.Tech Information Technology                  |                       |
|                      |                                                      |                                  |                  | B.E Electrical and Electronics Engineering     |                       |
|                      |                                                      |                                  |                  | B.E. Mechanical Engineering                    |                       |
| V                    | <b>National Assessment and Accreditation Council</b> | 05.07.2012                       | 5 Years          | SNS College of Technology                      | Valid till 04.07.2017 |

(Refer **Annexure A V, A VI, A VII, A VIII, AIX**)

## 9. Has the college recognized

- a. By UGC as a College with Potential for Excellence (CPE)?

|     |  |    |   |
|-----|--|----|---|
| Yes |  | No | ✓ |
|-----|--|----|---|

If yes, date of recognition: ..... (dd/mm/yyyy)

- b. For its contributions / performance by any other governmental agency?

|     |   |    |  |
|-----|---|----|--|
| Yes | ✓ | No |  |
|-----|---|----|--|

If yes, Name of the agency & Date of recognition

1. **National Board of Accreditation [NBA], 08.07.2016**

2. **National Assessment and Accreditation Council [NAAC], 05.07.2012**

## 10. Location of the campus and area :

|                                  |                      |
|----------------------------------|----------------------|
| Location                         | <b>Urban</b>         |
| Campus area in sq. mts. or acres | <b>10.125 acres</b>  |
| Built up area in sq. mts.        | <b>63,923 Sq.mts</b> |

(\* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. **Does the College have the following facilities on the campus** (Tick the available facility)? In case the College has an agreement with other agencies in using such facilities provide information on the facilities covered under the agreement.

|                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <ul style="list-style-type: none"> <li>Auditorium <ul style="list-style-type: none"> <li>Open Auditorium [5,882 Sq.m], Seating Capacity of 6000</li> <li>A/c Auditorium, RNG Memorial Hall, Seating Capacity of 600</li> </ul> </li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> |
| <ul style="list-style-type: none"> <li>Seminar complex <ul style="list-style-type: none"> <li>5 A/C Seminar Halls with seating capacity of more than 250</li> <li>6 Non-A/C Seminar Halls</li> </ul> </li> </ul>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> |
| <ul style="list-style-type: none"> <li>Sports facilities</li> </ul>                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>* Play ground <ul style="list-style-type: none"> <li>Basket Ball Court -2</li> <li>Ball Badminton - 2</li> <li>Kho-Kho Court - 1</li> <li>Volley Ball Court - 2</li> <li>5's Football Court -1</li> <li>Hand Ball Court – 1</li> <li>Kabadi Court -1</li> </ul> </li> <li>* Cricket Practice Pitch -Net -2</li> <li>* Tennikoit Court -1</li> <li>* Outdoor Shuttle Court –7</li> <li>* Indoor Shuttle Court –5</li> <li>* Carrom &amp; Chess</li> <li>* Table –Tennis Board-2</li> </ul> |                                     |
|                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>* Swimming pool</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>* Gymnasium <ul style="list-style-type: none"> <li>Separate Gym for Boys and Girls</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> |
| <ul style="list-style-type: none"> <li>Hostel</li> </ul>                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
|                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>* Boy's Hostel <ul style="list-style-type: none"> <li>168 rooms and accommodation capacity of 800 boys</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>* Girl's Hostel <ul style="list-style-type: none"> <li>155 rooms and accommodation capacity of 600 girls</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> |
| <ul style="list-style-type: none"> <li>Residential Facilities</li> </ul>                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |
|                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>* for teaching staff</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>* for non teaching staff</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> |
| <ul style="list-style-type: none"> <li>Cafeteria</li> </ul>                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> |

|                                                                                                                                                 |                              |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------|
| • Health centre                                                                                                                                 |                              |                                     |
|                                                                                                                                                 | * First aid facility         | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * Inpatient facility         | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * Outpatient facility        | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * Ambulance facility         | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * Emergency care facility    | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * Health centre Staff        | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * Qualified Doctor Full Time | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * Qualified Nurse Full Time  | <input checked="" type="checkbox"/> |
| • Other Facilities                                                                                                                              |                              |                                     |
|                                                                                                                                                 | * Bank                       | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * ATM                        | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * Post Office                | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * Book Shops                 | <input checked="" type="checkbox"/> |
| • Transport Facilities                                                                                                                          |                              |                                     |
|                                                                                                                                                 | * For students               | <input checked="" type="checkbox"/> |
|                                                                                                                                                 | * For staff                  | <input checked="" type="checkbox"/> |
| • Power house                                                                                                                                   |                              | <input checked="" type="checkbox"/> |
| <ul style="list-style-type: none"> <li>○ Transformer Capacity : 800KVA</li> <li>○ Generator Installed Capacity : [500 KVA + 380 KVA]</li> </ul> |                              |                                     |
| • Waste management facility                                                                                                                     |                              | <input checked="" type="checkbox"/> |
| <ul style="list-style-type: none"> <li>○ <b>Sewage Treatment Plant</b></li> <li>Plant Capacity of 2 Lakh Litre /day</li> </ul>                  |                              |                                     |

## 12. Details of programmes offered by the institution : (Give data for current academic year)

| Sl.No       | Programme Level           | Name of the Programme                       | Duration  | Entry Qualification               | Medium of Instruction | Sanctioned/Approved students intake | No. of students admitted |
|-------------|---------------------------|---------------------------------------------|-----------|-----------------------------------|-----------------------|-------------------------------------|--------------------------|
| <b>i</b>    | <b>Under Graduate</b>     |                                             |           |                                   |                       |                                     |                          |
| 1           | B.E.                      | Aeronautical Engineering                    | 4 Years   | +2/diploma                        | English               | 60                                  | 25                       |
| 2           | B.E.                      | Automobile Engineering                      | 4 Years   | +2/diploma                        | English               | 60                                  | 49                       |
| 3           | B.E.                      | Civil Engineering                           | 4 Years   | +2/diploma                        | English               | 60                                  | 52                       |
| 4           | B.E.                      | Computer Science and Engineering            | 4 Years   | +2/diploma                        | English               | 180                                 | 148                      |
| 5           | B.E.                      | Electrical and Electronics Engineering      | 4 Years   | +2/diploma                        | English               | 60                                  | 49                       |
| 6           | B.E.                      | Electronics and Communication Engineering   | 4 Years   | +2/diploma                        | English               | 180                                 | 159                      |
| 7           | B.E.                      | Electronics and Instrumentation Engineering | 4 Years   | +2/diploma                        | English               | 60                                  | 22                       |
| 8           | B.E.                      | Mechanical Engineering                      | 4 Years   | +2/diploma                        | English               | 180                                 | 174                      |
| 9           | B.E.                      | Mechatronics Engineering                    | 4 Years   | +2/diploma                        | English               | 60                                  | 51                       |
| 10          | B.Tech.                   | Information Technology                      | 4 Years   | +2/diploma                        | English               | 60                                  | 54                       |
| 11          | B.E.                      | Bio-Medical Engineering                     | 4 Years   | +2/diploma                        | English               | 60                                  | 51                       |
| 12          | B.E.                      | Agriculture Engineering                     | 4 Years   | +2/diploma                        | English               | 60                                  | 49                       |
| 13          | B.E.                      | Civil Engineering and Planning              | 4 Years   | +2/diploma                        | English               | 60                                  | 16                       |
| 14          | B.E.                      | Mechanical and Automation Engineering       | 4 Years   | +2/diploma                        | English               | 60                                  | 46                       |
| <b>ii</b>   | <b>Post Graduate</b>      |                                             |           |                                   |                       |                                     |                          |
| 15          | M.E.                      | Structural Engineering                      | 2 Years   | B.E/B.Tech.                       | English               | 18                                  | 14                       |
| 16          | M.E.                      | Computer Science and Engineering            | 2 Years   | B.E/B.Tech.                       | English               | 18                                  | 6                        |
| 17          | M.E.                      | Software Engineering                        | 2 Years   | B.E/B.Tech.                       | English               | 18                                  | 0                        |
| 18          | M.E.                      | Power System Engineering                    | 2 Years   | B.E/B.Tech.                       | English               | 18                                  | 2                        |
| 19          | M.E.                      | Communication Systems                       | 2 Years   | B.E/B.Tech.                       | English               | 18                                  | 0                        |
| 20          | M.E.                      | VLSI Design                                 | 2 Years   | B.E/B.Tech.                       | English               | 18                                  | 2                        |
| 21          | M.E.                      | Thermal Engineering                         | 2 Years   | B.E/B.Tech.                       | English               | 18                                  | 1                        |
| 22          | M.Tech                    | Information Technology                      | 2 Years   | B.E/B.Tech.                       | English               | 18                                  | 0                        |
| 23          | MBA                       | Master of Businesses Administration         | 2 Years   | Any degree                        | English               | 120                                 | 52                       |
| 24          | MCA                       | Master of Computer Application              | 2/3 Years | Any degree with maths /statistics | English               | 60                                  | 26                       |
| <b>iii</b>  | <b>Integrated Masters</b> | -                                           | -         | -                                 | -                     | -                                   | -                        |
| <b>iv</b>   | <b>M.Phil</b>             | -                                           | -         | -                                 | -                     | -                                   | -                        |
| <b>v</b>    | <b>Ph.D</b>               | Admitted by Anna University, Chennai        |           |                                   |                       |                                     | 20                       |
| <b>vi</b>   | <b>Integrated Ph.D.</b>   | -                                           | -         | -                                 | -                     | -                                   | -                        |
| <b>vii</b>  | <b>Certificate</b>        | -                                           | -         | -                                 | -                     | -                                   | -                        |
| <b>viii</b> | <b>Diploma</b>            | -                                           | -         | -                                 | -                     | -                                   | -                        |
| <b>ix</b>   | <b>PG Diploma</b>         | -                                           | -         | -                                 | -                     | -                                   | -                        |
| <b>x</b>    | <b>Any Others</b>         | -                                           | -         | -                                 | -                     | -                                   | -                        |

**13. Does the institution offer self-financed Programmes?**

Yes ☒ No

If yes, how many? 24

**14. Whether new programmes have been introduced during the last five years?**

|     |                                     |    |  |
|-----|-------------------------------------|----|--|
| Yes | <input checked="" type="checkbox"/> | No |  |
|-----|-------------------------------------|----|--|

If yes

|        |   |
|--------|---|
| Number | 7 |
|--------|---|

**15. List the departments: ( Do not list facilities like library, Physical Education as departments unless these are teaching departments and offer programmes to students)**

| Particulars                                                                       | Number         | Number of Students |
|-----------------------------------------------------------------------------------|----------------|--------------------|
| Science<br>Under Graduate<br>Post Graduate<br>Research centre(s)                  | Not Applicable |                    |
| Arts<br>Under Graduate<br>Post Graduate<br>Research centre(s)                     | Not Applicable |                    |
| Commerce<br>Under Graduate<br>Post Graduate<br>Research centre(s)                 | Not Applicable |                    |
| Engineering & Technology<br>Under Graduate<br>Post Graduate<br>Research centre(s) | 14<br>10<br>4  | 3716<br>242<br>85  |

16. Are there any UG and/or PG programmes offered by the College, which are not covered under Autonomous status of UGC? Give details.

NIL

17. Number of Programmes offered under (Programme means a degree course like BA, MA, BSc, MSc, B.Com etc.)

- a. annual system
- b. semester system 24
- c. trimester system

18. Number of Programmes with

- a. Choice Based Credit System 24
- b. Inter/Multidisciplinary Approach 5
- c. Any other (specify)

19. Unit Cost of Education

*(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled )*

- (a) including the salary component Rs.67,968
- (b) excluding the salary component Rs.35,364

20. Does the College have a department of Teacher Education offering NCTE recognized degree programmes in Education?

Yes ☐ No ☒

If yes,

- a. How many years of standing does the department have?  
..... years
- b. NCTE recognition details (if applicable) Notification No.:  
.....

Date: ..... (dd/mm/yyyy)

- c. Is the department opting for assessment and accreditation separately?

Yes ☐ No ☐

**21. Does the College have a teaching department of Physical Education offering NCTE recognized degree programmes in Physical Education?**

Yes ☐ No ☒

If yes,

- a. How many years of standing does the department have?

..... years

- b. NCTE recognition details (if applicable) Notification No.:

.....

Date: ..... (dd/mm/yyyy)

- c. Is the department opting for assessment and accreditation separately?

Yes ☐ No ☐

**22. Whether the College is offering professional programme?**

Yes ☒ No ☐

If yes, please enclose approval / recognition details issued by the statutory body governing the programme.

**23. Has the College been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.**

Yes, the college is reviewed by AICTE, UGC and Anna University, Chennai regularly.

- AICTE, New Delhi for Approval of Programmes (Once in a Year)
- UGC, New Delhi for Granting Autonomy (Once in Six Years)
- Anna University, Chennai for Affiliation (Once in a Year)

Anna University, Chennai has granted Permanent Affiliation to 6 programmes. Other 18 Programmes of the college are reviewed every year by Anna University, Chennai for extension of Affiliation. **Refer Annexure A V, A II and A VI.**

#### 24. Number of teaching and non-teaching positions in the College

| Positions                                                                                                             | Teaching Faculty |    |                     |    |                     |     | Non-Teaching Staff |    | Technical Staff |    |
|-----------------------------------------------------------------------------------------------------------------------|------------------|----|---------------------|----|---------------------|-----|--------------------|----|-----------------|----|
|                                                                                                                       | Professor        |    | Associate Professor |    | Assistant Professor |     |                    |    |                 |    |
|                                                                                                                       | *M               | *F | *M                  | *F | *M                  | *F  | *M                 | *F | *M              | *F |
| Sanctioned by the UGC / University / State Government<br><br><i>Recruited</i><br><br><i>Yet to recruit</i>            | -                | -  | -                   | -  | -                   | -   | -                  | -  | -               | -  |
|                                                                                                                       | -                | -  | -                   | -  | -                   | -   | -                  | -  | -               | -  |
|                                                                                                                       | -                | -  | -                   | -  | -                   | -   | -                  | -  | -               | -  |
| Sanctioned by the Management/ Society or Other authorized bodies<br><br><i>Recruited</i><br><br><i>Yet to recruit</i> | -                | -  | -                   | -  | -                   | -   | -                  | -  | -               | -  |
|                                                                                                                       | 20               | 4  | 17                  | 10 | 132                 | 147 | 25                 | 11 | 38              | 8  |
|                                                                                                                       | -                | -  | -                   | -  | -                   | -   | -                  | -  | -               | -  |

**\*M - Male \*F – Female**

#### 25. Qualifications of the teaching staff

| Highest Qualification | Professor |        | Associate Professor |        | Assistant Professor |        | Total |
|-----------------------|-----------|--------|---------------------|--------|---------------------|--------|-------|
|                       | Male      | Female | Male                | Female | Male                | Female |       |
| Permanent teachers    |           |        |                     |        |                     |        |       |
| D.Sc./D.Litt.         | -         | -      | -                   | -      | -                   | -      | -     |
| Ph.D                  | 18        | 4      | 6                   | 4      | 8                   | 9      | 49    |
| M.Phil                | 1         | -      | -                   | 1      | 12                  | 32     | 46    |
| PG                    | 1         | -      | 11                  | 5      | 112                 | 106    | 235   |
| Temporary teachers    |           |        |                     |        |                     |        |       |
| Ph.D                  | -         | -      | -                   | -      | -                   | -      | -     |
| M.Phil                | -         | -      | -                   | -      | -                   | -      | -     |
| PG                    | -         | -      | -                   | -      | -                   | -      | -     |
| Part-Time Teachers    |           |        |                     |        |                     |        |       |
| Ph.D                  | -         | -      | -                   | -      | -                   | -      | -     |
| M.Phil                | -         | -      | -                   | -      | -                   | -      | -     |
| PG                    | -         | -      | -                   | -      | -                   | -      | -     |



26. Number of Visiting Faculty/ Guest Faculty engaged by the College.

4

27. Students enrolled in the College during the current academic year, with the following details:

| Students                                    | UG         |            | PG        |           | Integrated Masters |          | M.Phil   |          | Ph.D      |          | Integrated Ph.D |          | D.Litt/D.Sc |          | Certificate |          | Diploma/PG Diploma |          |
|---------------------------------------------|------------|------------|-----------|-----------|--------------------|----------|----------|----------|-----------|----------|-----------------|----------|-------------|----------|-------------|----------|--------------------|----------|
|                                             | M          | F          | M         | F         | M                  | F        | M        | F        | M         | F        | M               | F        | M           | F        | M           | F        | M                  | F        |
| From the state where the college is Located | 669        | 258        | 62        | 41        | -                  | -        | -        | -        | 16        | 4        | -               | -        | -           | -        | -           | -        | -                  | -        |
| From other states of India                  | 12         | 6          | -         | -         | -                  | -        | -        | -        | -         | -        | -               | -        | -           | -        | -           | -        | -                  | -        |
| NRI Students                                | -          | -          | -         | -         | -                  | -        | -        | -        | -         | -        | -               | -        | -           | -        | -           | -        | -                  | -        |
| Foreign Students                            | -          | -          | -         | -         | -                  | -        | -        | -        | -         | -        | -               | -        | -           | -        | -           | -        | -                  | -        |
| <b>Total</b>                                | <b>681</b> | <b>264</b> | <b>62</b> | <b>41</b> | <b>-</b>           | <b>-</b> | <b>-</b> | <b>-</b> | <b>16</b> | <b>4</b> | <b>-</b>        | <b>-</b> | <b>-</b>    | <b>-</b> | <b>-</b>    | <b>-</b> | <b>-</b>           | <b>-</b> |

28. Dropout rate in UG and PG (average for the last two batches)

U.G. 4.1%

P.G. 3.7%

29. Number of working days during the last academic year.

208

30. Number of teaching days during the last academic year

180

31. Is the College registered as a study centre for offering distance education

programmes for any University?

Yes

☐

No

☒

If yes, provide the

a. Name of the University

b. Is it recognized by the Distance Education Council?

Yes

☐

No

☐

c. Indicate the number of programmes offered.

**32. Provide Teacher-student ratio for each of the programme/course offered**

| Sl.No | Programme Level | Name of the Programme                       | Approved students strength | Faculty Strength | Teacher Student Ratio |
|-------|-----------------|---------------------------------------------|----------------------------|------------------|-----------------------|
| 1     | B.E.            | Aeronautical Engineering                    | 180                        | 12               | 1:15                  |
| 2     | B.E.            | Automobile Engineering                      | 180                        | 12               | 1:15                  |
| 3     | B.E.            | Civil Engineering                           | 180                        | 13               | 1:12                  |
| 4     | B.E.            | Computer Science and Engineering            | 540                        | 37               | 1:15                  |
| 5     | B.E.            | Electrical and Electronics Engineering      | 180                        | 13               | 1:14                  |
| 6     | B.E.            | Electronics and Communication Engineering   | 540                        | 37               | 1:15                  |
| 7     | B.E.            | Electronics and Instrumentation Engineering | 180                        | 12               | 1:15                  |
| 8     | B.E.            | Mechanical Engineering                      | 540                        | 36               | 1:15                  |
| 9     | B.E.            | Mechatronics Engineering                    | 180                        | 12               | 1:15                  |
| 10    | B.Tech.         | Information Technology                      | 180                        | 14               | 1:13                  |
| 11    | M.E.            | Structural Engineering                      | 36                         | 3                | 1:12                  |
| 12    | M.E.            | Computer Science and Engineering            | 36                         | 3                | 1:12                  |
| 13    | M.E.            | Software Engineering                        | 36                         | 3                | 1:12                  |
| 14    | M.E.            | Power System Engineering                    | 36                         | 3                | 1:12                  |
| 15    | M.E.            | Communication Systems                       | 36                         | 3                | 1:12                  |
| 16    | M.E.            | VLSI Design                                 | 36                         | 3                | 1:12                  |
| 17    | M.E.            | Thermal Engineering                         | 36                         | 3                | 1:12                  |
| 18    | M.Tech          | Information Technology                      | 36                         | 3                | 1:12                  |
| 19    | MBA             | Master of Businesses Administration         | 240                        | 15               | 1:16                  |
| 20    | MCA             | Master of Computer Application              | 180                        | 12               | 1:15                  |
| 21    | I Year          | All Branches                                | 1200                       | 81               | 1:15                  |

**33. Is the College applying for?**

Accreditation :      Cycle 1                      Cycle 2      ✓                      Cycle 3                      Cycle 4 ☐

Re-Assessment:      ☐

**34. Date of accreditation\* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)**

Cycle 1: (05 / 07 /2012) Accreditation outcome/results

Kindly enclose copy of accreditation certificate(s) and peer team report(s)

Cycle 1 refers to first accreditation; Cycle 2 and beyond refers to reaccreditation

**35. a. Date of establishment of Internal Quality Assurance Cell (IQAC)**

(15 /09/2012)

**b. Dates of submission of Annual Quality Assurance Reports (AQARs).**

(i) AQAR for year 2012-2013 on 05 / 11 / 2013

(ii) AQAR for year 2013-2014 on 28 / 10 / 2014

(iii) AQAR for year 2014-2015 on 01 / 10 / 2015

(iv) AQAR for year 2015-2016 on 27 / 08 /2016

**36. Any other relevant data, the College would like to include. (Not exceeding one page)**

- The college is ranked 114<sup>th</sup> in Top Engineering Colleges in the Nation and 62<sup>nd</sup> in Top Private Engineering Colleges in the Nation by the WEEK Hansa Research Best College Survey 2014. The college is also ranked 123<sup>rd</sup> position among Top Indian B-Schools - the WEEK Hansa Research B-School Survey 2014.
- The college is Rated as “AA” (Good Quality Institution) among 3600 plus Engineering Colleges in the country in a survey carried out by CAREERS 360 Magazine.
- The college has also received Best performing Institution of the Year 2014 award during the 6<sup>th</sup> International Achievers Summit on 17.11.2014 at Bangkok.
- The MBA department of our college is ranked 62<sup>nd</sup> position under the category Beyond IIMs B-School Survey conducted by the Higher Education review magazine, 2015.
- Dr.S.N.Subbramanian, Chairman was awarded with “Indian Leadership Award for Education Excellence”, by All India Award Foundations, New Delhi – 2014.

- The Global Achievers Foundation, New Delhi has honored Dr.S.N.Subbramanian with “Mother Teresa Sadbhavana Award” in the year 2014.
- Dr.S.Karthik, Dean / CSE has been awarded with “Best Academic Researcher Award 2014” *by* ASDF International Awards, Thailand Chapter, 2014.
- The MBA department of our college is ranked 62<sup>nd</sup> position under the category Beyond IIMs B-School Survey conducted by the Higher Education review magazine, 2015.
- The college is also ranked 19<sup>th</sup> position in the Top 25 Engineering Colleges for Excellent Faculty - the Higher Education Review, July 2015.
- The college is awarded with the “Best Engineering College for Industry Interface-India, 2015” by Centre for Education, Growth & Research (CEGR), New Delhi.
- The college is also ranked 30<sup>th</sup> position in the Top 100 Private Engineering Colleges Survey 2015 - the Higher Education Review.
- Dr.S.N.Subbramanian was honored with ***Raindrops “Edupreneur Award” consequently*** for 2 years 2014 and 2015 from his Excellency the Governor of Tamil Nadu.
- Dr.S.Rajalakshmi, Correspondent, received Gold Star Award for excellence in higher education for her outstanding contribution for National Unity & Economic Growth from Global Achievers Foundation, New Delhi.
- Dr.S.Chenthur Pandian, Principal has received the Best principal Award from Pearl Foundation for Educational Excellence, December 2016
- Dr.P.Vivekanandan, HoD- Mechatronics, received the Distinguished HoD award during CSI Tech Next India-2017 by CSI Mumbai Chapter.

# ***Criteria Wise Analytical Report***

***Criterion I***  
***Curricular Aspects***

## CRITERION – I

### CURRICULAR ASPECTS

#### 1.1 CURRICULUM DESIGN AND DEVELOPMENT

##### 1.1.1 How are the Institutional Vision / Mission reflected in the academic programmes of the College?

The Vision and Mission is reflected in all the academic programmes offered in the College. All the Departments have derived their Vision and Mission from College Vision and Mission. These Department Vision and Mission form the basis for offering Program and student services as depicted in Figure 1. The College Vision guides the college in the process of producing world class technocrats with the confidence to lead and perform in the technical world. Each Department has a specific vision and mission, which are in line with the college vision and mission and help the college to achieve its vision and mission. Program Educational Objectives (PEOs) of all programmes have been derived from the vision and mission of the respective department and support the departments in achieving their vision and mission.

The key aspects of the college Vision and Mission to make the institution

- i) Internationally recognized to be an Engineering College
- ii) Renowned for its excellence in teaching, learning and research
- iii) Engaged with skilled professionals and vibrant entrepreneurs
- iv) To instill Professional Integrity, social and ethical values
- v) To collaborate to achieve global excellence

These central ideas are incorporated in the vision, mission and objectives of all the departments.

The Curriculum Design and Development of all the Undergraduate (UG) and Postgraduate (PG) programmes are developed in accordance with PEOs and Programme Outcomes (POs) as shown in Figure 1.

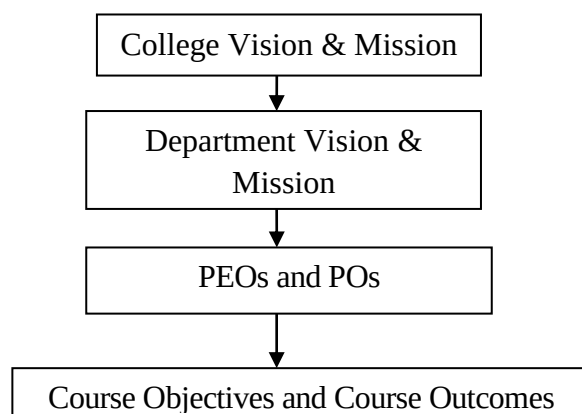


**Figure 1. Institutional Vision / Mission reflected in the academic programmes**

The college Vision and Mission are reflected in the academic programmes such as UG, PG and Research Programmes offered in the fields of Engineering, Technology and Management as follows:

- Introduction of (i) Creative Learning Methodology and (ii) Layer learning/ Project learning /Learning by doing from I year onwards for better understanding of concepts through techniques like mind-mapping, peer-learning etc and by improving the reading, writing and presentation skills;
- Providing better opportunities for advanced learners to improve their skills and capabilities; such as Value added course, Mini project and real time consultancy works.
- Conducting remedial courses and bridge courses for slow learners and lateral entry students;
- Implementing Choice Based Credit system;
- Establishing Centre of Excellence for Research in the fields of Engineering, Technology and Management;
- Enriching/upgrading the curriculum and content in accordance with the feedback and inputs from Industrial experts, Research Organization, R&D department of Industry and Professional bodies;
- Encouraging and incentivizing the faculty members for consultancy, publications and patents;
- Motivating and encouraging students and faculty members in research, consultancy and new product / process development and knowledge development;
- Sponsoring the students and faculty members to visit leading Universities and Institutions for academic interaction; and
- Providing hands-on training in the emerging areas through workshops, demonstration packages and innovative projects.
- Need assessment is done based on market requirements and feedback received during programme implementation.

**1.1.2 Describe the mechanism used in the design and development of the curriculum? Give details on the process. (Need Assessment, Feedback, etc)**

Autonomous colleges play a major role in the Curriculum Design and Development, having this in mind our college has clear processes, systems and structures in place to shoulder the responsibility. Curriculum Design and Development is a complex process involving several steps and experts. It is a process of developing appropriate need-based curricula in consultation with expert groups, based on the feedback from stakeholders, resulting in the development of relevant programmes with flexibility, to suit the professional and personal needs of the students. The mechanism adopted by the college in the design and development of curriculum are as follows.



### ***Design and Draft of Curriculum***

The process involved in design and development of the curriculum are as follows:

- Department Vision and Mission was formulated, based on the college vision and mission.
- While framing the curriculum for each programme, the PEOs and POs are taken into account based on the Department Vision and Mission.
- The Head of the Departments and faculty members form a Curriculum Development Committee (CDC).
- The draft curriculum is prepared by the CDC based on inputs and feedbacks from industries, academicians, alumni, students, members of the faculty and International and National professional societies.
- The Outcome Based Education (OBE) model is being practiced which involves curriculum design based on predetermined objectives and learning outcomes
- It also covers all the aspects like assessment/evaluation, planning, implementation and continual quality improvement.
- The Curriculum and Syllabi of the Anna University, leading Universities in India and abroad and Autonomous colleges are referred while designing the curriculum. The curriculum design also aims to serve the future needs of students, such as employment, higher studies and entrepreneurship. This helps the college to offer curriculum that is Nationally and Internationally bench marked.
- Credit distribution is followed as per AICTE, Anna University and UGC guidelines.
- The Board of Studies (BoS) of all the academic programmes comprises of curriculum development, assessment strategies, and delivery methods as per the OBE system.
- The drafted curriculum is placed for approval before the concerned Board of Studies for discussion / revision.
- The Standing Committees suggestions and recommendations are incorporated after due consultation by all the departments and changes are made appropriately.
- Stakeholders' feedbacks are used for enriching the curriculum.

### ***Review and Approval of Curriculum***

The academic council reviews the recommendations of the standing committee with respect to the regulations, curriculum structure and detailed syllabi. After due process and consideration the council approves the same.

### ***Implementation of the Curriculum***

- Based on the resolution passed by the Academic Council the new Curriculum is implemented in the subsequent academic year.
- The feedbacks obtained during the implementation period are taken as inputs for further revision, modification and up gradation as shown in Figure 2- Mechanism of curriculum development.

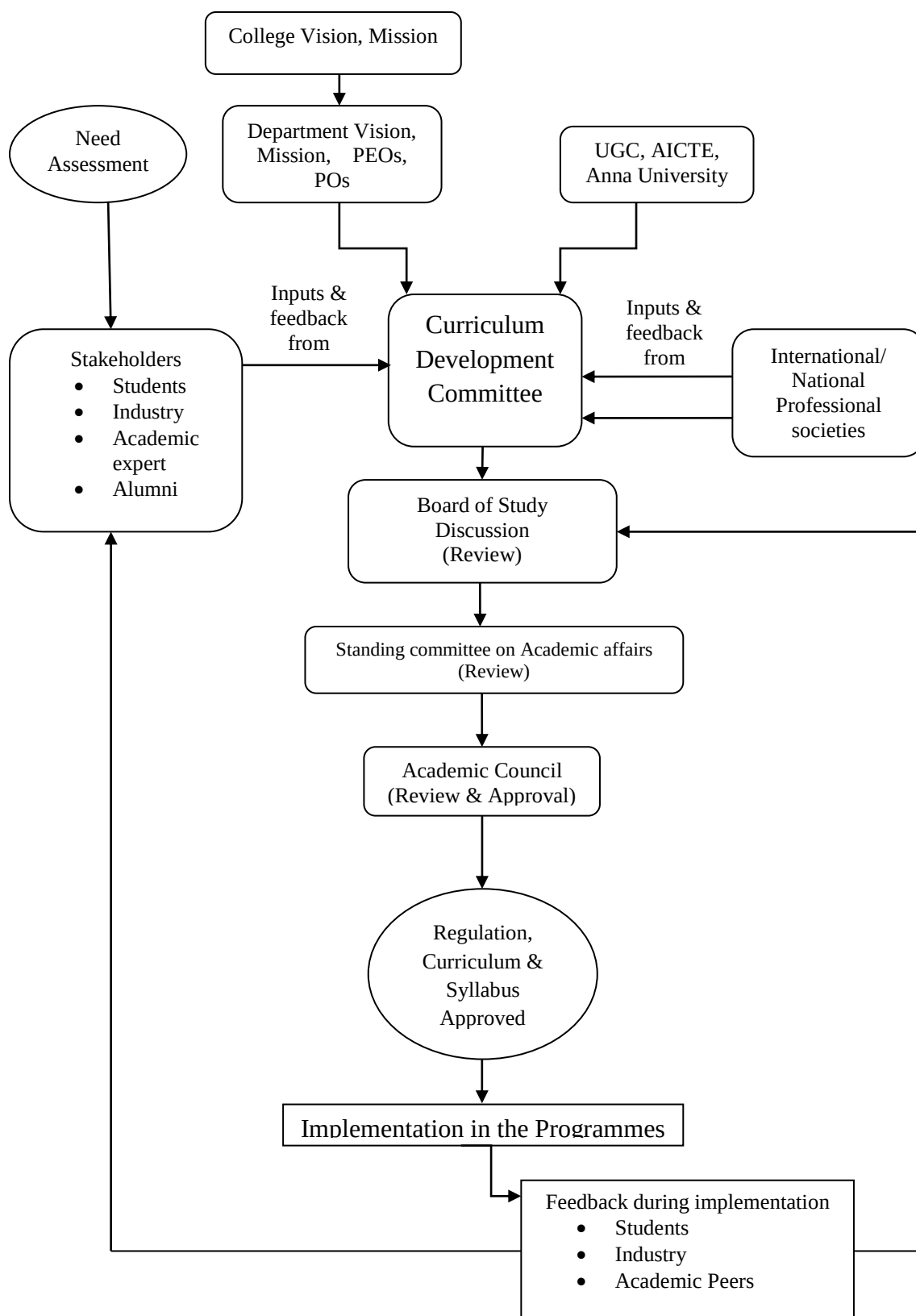


**Figure 2. Mechanism of Curriculum Development**

**1.1.3 How does the College involve industry, research bodies, and civil society in the curriculum design and development process? How did the College benefit through the involvement of the stakeholders?**

The College involves internal and external experts from industry, research bodies, and civil society Sector in Curriculum development process by nominating them as members in the Academic Council and Board of Studies which are statutory bodies that are responsible for the Curriculum development process. The drafted curriculum is sent to external experts of Industry and Academia before they are presented to the approval bodies.

### ***Industries***

The College maintains linkage with industry for bridging the industry-academia gap and to make the curriculum industry relevant. Industrialists are involved in curriculum design and drafting based on requirement. In addition, industry experts provide inputs regarding the expectations of the industry during BoS meetings. They are also invited as resource persons for the events such as seminars, workshops and conferences and feedbacks and suggestions collected during such events are considered for curriculum enrichment.

### ***Employers***

The feedbacks are obtained continuously from the employers which are taken into account to enrich the curriculum to the needs of the industry. This makes our students industry-ready from the beginning itself.

### ***Research Bodies***

The eminent researchers from the R&D division of industry, Research Institutes, provide valuable information regarding the latest research issues which are useful in framing the curriculum and syllabus.

The faculty members and students attending seminars / conferences / workshops / orientation programs / refresher courses at higher level institutions and Research Institutes also provide valuable information regarding the latest development which are useful in enriching the curriculum and syllabus.

### ***Civil Society***

The curriculum is designed based on the feedbacks received from legal experts, NGOs Cyber law experts and experts from Banking sector. Society relevant courses like Environmental Science, Professional Ethics, Pollution Control, Indian Constitutional Society and Industrial Property Rights are introduced to make the students more socially responsible citizens. Such feedbacks received from Civil Society are sent to the BoS of the respective departments. In addition Legal consultant is nominated as the member of the Academic Council.

Stakeholders input from student Alumni, Industry and Academic expert are sought in development of the curriculum. This ensures that the curriculum developed encompasses component of employability, research, relevant thrust areas, is socially relevant and addresses societal needs appropriately. A Career Development Programme and Mini-Project have been introduced in the curriculum of all the UG programmes to better equip the students for industry and entrepreneurship. Based on the feedback received from the stakeholders some of the courses were enriched such as Energy storage system and conservation, Electrical Machine and drives, Engineering Drawing and Advanced Power system dynamics. The details of feedback received to enrich the curriculum are shown in **Annexure 1.1**.

### **1.1.4 How are the following aspects ensured through curriculum design and development?**

#### ***Employability***

Employability is a major consideration in the design and development of the curriculum and is achieved in the following ways:

- Soft skills, linguistic skills, quantitative ability, personality development, verbal - non verbal reasoning, computer literacy programmes are provided in the Career Development Programme (CDP) courses which is part a of the curriculum. Industrial training, internship, employment enhancement courses and job oriented open electives are included in the curriculum in addition to the regular courses.
- Technical skills are also imparted through CDP courses in addition to soft skills and communication skills.
- Acquisition - based training and technical seminars have been incorporated in the curriculum as measures to enhance the competence of the students and to render them employable.
- In the Choice Based Credit System one credit Industry ready courses are included in the curriculum.
- Curriculum is framed by considering the requirements of the competitive examinations like Tamil Nadu Public Service Commission, Union Public Service Commission, Railway Recruitment Board, Teachers Recruitment Board and Institute of Banking Personnel service and Staff Selection Commission.
- Courses in emerging areas like Cyber Forensics, Big Data Analytics, Nano Science, Cloud Computing, Mobile Computing, Prefabricated Structures, Remote Sensing and GIS, Production Automation and CNC Machines are introduced in the respective programmes in order to enable the students to update their knowledge and enlarge the avenues for placements in different domains.

#### ***Innovation***

Innovation is encouraged through the following initiatives:

- Mini-projects in several areas are made mandatory which make the students technically sound and helps them to carry out conceptually creative activities.
- Students are motivated to take up innovative application oriented projects which gives them enough opportunities to display their innovative skills.

#### ***Research***

Research conducive environment is created by following:

- Four departments namely Computer science and Engineering, Civil Engineering, Electrical & Electronics Engineering and Mechanical Engineering are Recognized Research Centres under Anna University and involved in extensive research activities.

- Research Methodology has been introduced for PG students to improve their research skill.
- Students are motivated to do research based projects and to publish their articles in International conferences as well as journals.
- Students are motivated to undertake interdisciplinary projects combining the students from various specialization like CSE, IT, EEE, ECE in different combinations.
- Students are encouraged to submit proposals to various funding agencies and obtain research grants for student projects.

#### **1.1.5 How does college ensure that the curriculum developed addresses the needs of the society and have relevance to the regional/National developmental needs?**

In line with the mission of the college which states that, “it offers highly commendable engineering education that will be always relevant and beneficial to the society”, the college ensures the curriculum developed addresses the needs of the society, in the following ways:

- Courses like Professional Ethics in Engineering Total Quality Management, Intellectual Property Rights, Cyber Security and Ethical Hacking Green Computing, Green Buildings and Environmental Science Engineering which are incorporated in the regular curriculum with credits.
- The existing socially relevant courses are updated to meet the National needs such as, Smart City, Satellite City, Nano-Vision 2020, Digital India and Make in India.
- The curriculum includes mini project, Phase-I and Phase-II projects which has encouraged the students to do projects that address the societal and regional needs for example wet grinder, motor, pump, flight crash etc.
- In addition, professional elective courses and open elective courses are included in the curriculum which orients the students towards meeting the social, regional and National needs.

***To ensure that the curriculum addresses the needs of the society and have relevance to the regional / national development, the suggestions by stake holders are incorporated as follows:***

| S.No | Name of the Course                 | Relevance to regional/National developmental needs                                                                                                                                                                                                 |
|------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Professional Ethics in Engineering | To stimulate critical and responsible reflection on moral issues surrounding engineering practice and to make the students aware of the different ethical issues, codes of conduct for engineers in the society and moralities in an organization. |
| 2    | Total Quality Management           | To help the students to improve management skills and equip with adequate skills for competency in organization.                                                                                                                                   |
| 3    | Intellectual Property Rights       | To make the students understand the importance of protecting intellectual works and to know the use of copyrights and trademarks as well as the procedures for filing patents                                                                      |

|   |                                       |                                                                                                                                                                                                                                                                                                              |
|---|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Cyber Security and Ethical Hacking    | To make the students to identify the vulnerabilities and attacks in cyberspace as well as to know about cyber forensics methodology and the management of cyber threats.                                                                                                                                     |
| 5 | Green Computing                       | To help the students to know the environment responsible for efficient usage of computers and related resources,                                                                                                                                                                                             |
| 6 | Green Buildings                       | To help the students to know the Green building, or sustainable design, reducing impacts on human health and the environment for the entire lifecycle of a building. Green-building concepts extend beyond the walls of buildings and include site planning, community and land-use planning issues as well. |
| 7 | Environmental Science and Engineering | To make the students understand the importance of Environmental science is and to know, how to conserve the environment. The environment makes up and influences every aspect of life on Earth                                                                                                               |

**1.1.6 To what extent does the College use the guidelines of the regulatory bodies for developing or restructuring the curricula? Has the College been instrumental in leading any curricular reform which has created a national impact?**

The College is an Autonomous Institution and it has the liberty to formulate its own curriculum following the guidelines prescribed by the regulatory bodies, viz., UGC, AICTE and Anna University.

- Introduced Choice based credit system in the Academic year 2015-16 and guidelines of the regulatory bodies such AICTE and Anna University have been followed in offering the core and Elective courses.
- The guidelines of UGC and AICTE are followed while developing core, elective, interdisciplinary and project courses and due weightage is given to individual course credits as well as total number of credits required for the award of degree in line with the norms of Anna University.
- Introduction of new programmes, infrastructure facilities, faculty student ratio, contact hours per course are adopted by following the guidelines of AICTE and Anna University respectively.
- The college follows the AICTE guidelines for credit distribution and grouping the courses in the curriculum.
- As per the guidelines of the affiliating University and UGC, courses like Environmental science and Engineering, Total Quality Management, Professional Ethics, Disaster management and Principles of Management are introduced.
- While framing the autonomous curriculum and syllabi, the parent University and other National and International Universities curriculum and syllabi are referred to and bench marked. The statutory bodies nominate the experts for Board of Studies

and Academic Council of the college which are responsible for approval of curriculum.

- B.E. - Civil Engineering and Planning is introduced from 2016-17. The programme emphasis the rural and urban infra structure development in India. This unique programme is offered to cater the Satellite city and Smart city concepts of the Nation.
- B.E. - Agricultural Engineering, Mechanical and Automation Engineering and Bio-Medical Engineering Programmes are also offered from the year 2016-17 to meet the national visions like Make in India.
- Inputs have been collected and sent to MHRD as contributions to framing New Education Policy – 2016 based on input received from internal stakeholders through brainstorming sessions.

## 1.2 ACADEMIC FLEXIBILITY

### 1.2.1 Give details on the following provisions with reference to academic flexibility.

#### a. Core / Elective options

In the former curriculum of Anna University affiliating system until 2012-16 and in the first batch of autonomous (2013-17), only four electives (2 % of the total credits) were offered. As an improvement in academic flexibility, six electives are offered for the students admitted in the academic year 2014 onwards.

Further in CBCS system, adopted from 2015-16 onwards, seven professional electives and three open electives are being offered as shown in the following Table (Table 1.1).

**Table 1.1 Distribution in Credits**

| Programmes    | Total Credits | Percentage of Credits |                       |               |        |
|---------------|---------------|-----------------------|-----------------------|---------------|--------|
|               |               | Core                  | Professional Elective | Open Elective | Others |
| B.E./ B.Tech. | 180-185       | 45                    | 12                    | 5             | 38     |
| M.E./ M.Tech. | 70-75         | 70                    | 20                    | 5             | 5      |
| M.B.A.        | 97            | 38                    | 19                    | 3             | 40     |
| M.C.A.        | 115-120       | 61                    | 10                    | 5             | 24     |

#### **Improvement in Academic Flexibility**

The academic flexibility is incorporated periodically in the curriculum design as follows:

| System of Study                      | Academic Flexibility                                                                                                                                                                            |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Anna University (Affiliating)</b> | Provisions are given to the students for selecting few courses as electives from 6 <sup>th</sup> semester based on their interest. In the list of electives, enough number of courses is given. |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Autonomous</b> | <ul style="list-style-type: none"> <li>• The curriculum was revised in 2013; provisions are made to introduce additional electives to the curriculum, keeping in mind the demands of the industry which the students can opt.</li> <li>• Flexibility to undergo internship during VIII semester by utilizing fast track system.</li> <li>• The weightage to continuous assessment has been increased from 25 % to 50 %.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>CBCS</b>       | <p>The student can opt for three open elective courses from the courses offered by other departments in addition to professional electives.</p> <p>Provisions are also available in the form of:</p> <ul style="list-style-type: none"> <li>• One credit courses</li> <li>• On-line courses</li> <li>• Self study courses</li> </ul> <p>Flexibility provided to</p> <ul style="list-style-type: none"> <li>• Add and/or drop courses.</li> <li>• Accumulate 3 credits through one credit courses in lieu of one professional elective.</li> <li>• Self study/online courses of 3 credits can be considered equivalent to one professional elective.</li> <li>• Avail authorized break of study for the period of one year.</li> <li>• Withdraw from registering end semester examinations in case of genuine reasons which does not prevent him/her from getting distinction.</li> </ul> |

### ***b. Enrichment courses***

Enrichment courses are offered in various emerging areas such as CATIA, 3Ds max Archi CADD, FEA softwares, PCB Design, CFD, Financial Derivatives, Hands on Training in Embedded System by each programme. These courses are offered in the form of value added courses to interested students and are aimed to cover various areas to enrich their knowledge over and above the curriculum.

Career development courses are included in the curriculum for development of soft skills, linguistic skills, quantitative ability, personality development and verbal - non verbal reasoning. These non – credit courses are offered over and above the Employability Enhancement Courses (EEC) which is part of the curriculum.

### ***c. Courses offered in modular form***

Students of B.E. / B.Tech. Programmes who are under CBCS can take one credit courses during the fourth to seventh semester of their study which are of 15 hours duration. The provision to accumulate three one credits and drop one professional elective is also given



to students. These courses will be conducted with the help of Industry experts and thereby ensure better exposure of students to industry needs.

Students are also encouraged to take the online courses offered by reputed institutions of higher learning institutions / organizations and internationally reputed Universities. The details of courses offered in modular form are given in **Annexure 1.2**.

***d. Credit transfer and accumulation facility***

Credit transfer facility, within the discipline, is offered to the students in the case of one-credit courses. The credits accumulated through ONLINE courses are also considered for credit transfer. The credit transfer facility across the colleges is available to the transferred students. Credit accumulation facilities are offered to the students, as prescribed in the regulations of the programme through one-credit courses.

***e. Lateral and vertical mobility within and across programmes and courses***

- The curriculum allows lateral and vertical mobility within and across departments.
- The students undergo open elective course (Interdisciplinary elective) from the list of courses offered in the college in addition to professional electives.
- Apart from the regular curriculum, various value added certificate courses offered to students facilitate lateral mobility across the programme and courses.
- UG students have an option to study the course offered in PG programmes also.

**1.2.2 Have any courses been developed specially targeting international students? If so, how successful have they been? If 'no', explain the impediments.**

All the existing courses are of the international standards as they are framed based on curriculum of international Universities and after receiving feedback from international academicians. Presently no international students have been admitted.

**1.2.3 Does the College offer dual degree and twinning programmes? If yes, give details.**

No. The college offers only regular UG, PG and Ph.D. programmes as per University approval.

**1.2.4 Does the College offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?**

Yes. All the programmes offered by the college fall under self financing category. The policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes. SNSCT offers 13 B.E Programmes, 1 B.Tech Programme, 7 M.E Programmes, 1 M.Tech Programme in Engineering and Technology, 1 Programme in Management viz MBA & 1 in Computer Applications viz MCA (Total 24) and 4 departments are recognized as research centres by Anna University. The various self financing programmes offered by the college are listed below.

| Sl.No. | Under Graduate Programmes<br>(4 Year)              |
|--------|----------------------------------------------------|
| 1.     | B.E. - Aeronautical Engineering                    |
| 2.     | B.E. - Agriculture Engineering                     |
| 3.     | B.E. - Automobile Engineering                      |
| 4.     | B.E. - Biomedical Engineering                      |
| 5.     | B.E. - Civil Engineering                           |
| 6.     | B.E. - Civil Engineering and Planning              |
| 7.     | B.E. - Computer Science Engineering                |
| 8.     | B.E. - Electronics and Communication Engineering   |
| 9.     | B.E. - Electrical and Electronics Engineering      |
| 10.    | B.E. - Electronics and Instrumentation Engineering |
| 11.    | B.Tech. - Information Technology                   |
| 12.    | B.E. - Mechanical Engineering                      |
| 13.    | B.E. - Mechanical and Automation Engineering       |
| 14.    | B.E. - Mechatronics Engineering                    |

| Sl.No. | Post Graduate Programmes<br>(2 Year)   |
|--------|----------------------------------------|
| 1.     | M.E.- Computer Science and Engineering |
| 2.     | M.E.- Software Engineering             |
| 3.     | M.E.- Communication Systems            |
| 4.     | M.E.- VLSI Design                      |
| 5.     | M.E.- Power System Engineering         |
| 6.     | M.E.- Structural Engineering           |
| 7.     | M.E.- Thermal Engineering              |
| 8.     | M.Tech. - Information Technology       |
| 9.     | MBA                                    |
| 10.    | MCA (3 Year)                           |

| Sl.No. | Research Programmes                    |
|--------|----------------------------------------|
| 1      | Computer Science and Engineering       |
| 2      | Civil Engineering                      |
| 3      | Electrical and Electronics Engineering |
| 4      | Mechanical Engineering                 |

The eligibility conditions for admission for seats allocation norms and the fee structure are as per the policy of the Government of Tamil Nadu.

- The qualification and salary of the teachers are as per the norms of AICTE.
- AICTE and Anna University conducts regular inspections to ensure that teacher qualifications follow the prescribed norms.

**1.2.5 Has the College adopted the Choice Based Credit System (CBCS)? If yes, how many programmes are covered under the system?**

Yes. The college adopts Choice Based Credit System (CBCS) for the students admitted from the academic year 2015-16 onwards for all 14 Under Graduate and 10 Post Graduate Programmes mentioned in section 1.2.4.

**1.2.6 What percentage of programmes offered by the college follows annual, semester and trimester system?**

All the Under Graduate and Post Graduate Programmes offered by the college follow semester system as per the regulations of the affiliating University mentioned in section 1.2.4.

**1.2.7 What is the policy of the College to promote inter-disciplinary programmes? Name the programmes and what is the outcome?**

College has a policy to promote interdisciplinary programmes to fulfill the industrial needs and to enhance employment opportunity. Based on the survey taken from the stake holders, the college has periodically introduced inter-disciplinary programmes such as,

| Sl. No. | Year of starting | Name of the inter-disciplinary programmes Offered  |
|---------|------------------|----------------------------------------------------|
| 1.      | 2011             | B.E. - Mechatronics Engineering                    |
| 2.      | 2011             | B.E. – Electronics and Instrumentation Engineering |
| 3.      | 2016             | B.E. - Bio-Medical Engineering                     |
| 4.      | 2016             | B.E. - Civil Engineering and Planning              |
| 5.      | 2016             | B.E. - Mechanical and Automation Engineering       |

The college is also offering interdisciplinary Ph.D. programmes in Civil Engineering, Computer science Engineering, Electrical and Electronics Engineering and Mechanical Engineering.

As an outcome of offering interdisciplinary programmes, the faculty members and students are enabled to have joint publications with the industries and the academicians. Outcome of these programmes and publications include knowledge intensive learning environment, satisfying stakeholders' needs, bridging industrial gap, securing interdisciplinary jobs and projects, improvement in emerging technology, meeting local and global needs. Industries also benefit from the publications as they focus on the recent trends. Students and faculty members published their research articles jointly with the scientists from the CSIR laboratory - Structural Engineering Research Centre at Chennai.

### 1.3 CURRICULUM ENRICHMENT

#### 1.3.1 How often is the curriculum of the College reviewed for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

The policy of the college is to revise the curriculum once in four years for the UG and two years for PG programmes. However, the curriculum is reviewed every year and minor modifications wherever necessary are carried out to enhance the curriculum. Such changes are made after due approvals from the concerned Board of study and the Academic council.

While reviewing the syllabus in line with the emerging technologies, socially relevant courses and knowledge intensive course contents are given high importance.

In addition to the Engineering discipline curriculum the socially relevant courses like Environmental science, Professional Ethics, Pollution control, Indian constitutional society & IPR and job oriented courses such as Prefabricated structures, Prestressed concrete structures, Remote sensing GIS and Air pollution have been included to make the students as socially responsible citizens.

Job oriented courses like VLSI Design, Hardware Description Language, Television and Video Engineering, Automotive Electrical Systems, Electronic Engine Management Systems, Design of Jig, Fixtures and Press tools and Advanced Welding Processes have been included to make the students employable.

Knowledge intensive courses like Digital Signal Processing, Antennas and Wave Propagation, Design of Machine Elements, Vehicle Design, Kinematics of Machinery and Fluid Power Control Processes have been included in the curriculum for their career development.

The interaction and feedback with our stakeholders and from industry paves way to understand the current demands of the industries and technological advancements help to redesigning the curriculum. Courses like Wireless Communication, Cryptography and Network Security, Automotive Aerodynamics, Engine and Vehicle Management Systems, Design of Transmission System and Renewable Energy Utilization were included in the curriculum for the students to become successful individuals.

### **1.3.2 How many new programmes at have been introduced UG and PG level during the last four years? Mention details.**

#### **❖ Inter-disciplinary**

#### **❖ Programmes in Emerging Area**

The following five new U.G. programmes and two P.G. programmes have been introduced during the last 4 years:

| <b>Sl. No.</b>         | <b>Year of starting</b> | <b>Name of the programmes</b>                | <b>Inter-disciplinary / Programmes in Emerging Area</b> |
|------------------------|-------------------------|----------------------------------------------|---------------------------------------------------------|
| <b>U.G. Programmes</b> |                         |                                              |                                                         |
| <b>1.</b>              | <b>2013</b>             | B.E. - Automobile Engineering                | Programme in Emerging Area                              |
| <b>2.</b>              | <b>2016</b>             | B.E. - Agriculture Engineering               | Programme in Emerging Area                              |
| <b>3.</b>              | <b>2016</b>             | B.E. - Biomedical Engineering                | Inter-disciplinary                                      |
| <b>4.</b>              | <b>2016</b>             | B.E. - Civil Engineering and Planning        | Inter-disciplinary                                      |
| <b>5.</b>              | <b>2016</b>             | B.E. - Mechanical and Automation Engineering | Inter-disciplinary                                      |
| <b>P.G. Programmes</b> |                         |                                              |                                                         |
| <b>6.</b>              | <b>2013</b>             | M.E.-Thermal Engineering                     | Programme in Emerging Area in the market                |
| <b>7.</b>              | <b>2013</b>             | M.E.- Structural Engineering                 | Programme in Emerging Area in the market                |

### **1.3.3 What are the strategies adopted for revision of the existing programmes? What percentage of courses underwent a major syllabus revision?**

The College is adopting Outcome Based Education system which ensures that students would achieve predefined outcomes of the programme of study. Each programme has a set of Programme Educational Objectives (PEOs) and Program Outcomes (POs) which are framed in such a way so as to ensure that the expectations of all the stakeholders are being

addressed. Feedback are obtained from different stakeholders to make major decisions regarding curricula like addition of the programmes, revision of the existing courses and including new courses.

Periodically the Curriculum Development Committee of the respective program reviews the syllabus and gives suggestions. The syllabus is suitably changed and then presented to the Board of Studies (BoS) for a detailed review. After recommendation of Standing Committee, the Academic Council approves the syllabus.

On an average of 20-30% courses have undergone major revision during the last four years based on feedback. Few new courses are also added based on feedback received from stakeholders.

The following table list few courses which has undergone major revisions or newly introduced during the past 4 years.

| <b>Board</b>              | <b>Course Name</b>                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Civil Engineering Board   | <ul style="list-style-type: none"> <li>• Engineering Geology and Construction Materials</li> <li>• Advanced design of steel structures</li> <li>• Estimating Costing and Valuation</li> <li>• Advanced Design of steel structures</li> </ul>                                                                                                                                                   |
| Computer Sciences Board   | <ul style="list-style-type: none"> <li>• Cryptography and cryptanalysis</li> <li>• Composing mobile app</li> <li>• Internet of Things</li> <li>• BI- Data Warehousing and Analytics course</li> <li>• Computer hardware and trouble shooting laboratory</li> </ul>                                                                                                                             |
| Electrical Sciences Board | <ul style="list-style-type: none"> <li>• CMOS VLSI Design</li> <li>• Electronics Circuits-I &amp; II</li> <li>• Electronic Design Automation Laboratory</li> <li>• ARM Architecture and Programming</li> <li>• Hardware Description Language</li> <li>• Statistical Theory of Communication</li> <li>• MIMO Communication System</li> <li>• RF System Design, Microwave Engineering</li> </ul> |
| Mechanical Sciences Board | <ul style="list-style-type: none"> <li>• Manufacturing Technology Laboratory</li> <li>• Automotive engines components design</li> <li>• Automotive chassis components design</li> <li>• Computer aided engine components design</li> </ul>                                                                                                                                                     |

- Entire courses were revamped in MBA program and new electives were incorporated, based on Top B-schools curriculum and Syllabus. About 65% revision is made in the content of the courses like International business management, Entrepreneurship

development. Also 70 % of revisions are made based on the suggestion given by Stakeholders in Business Intelligence course.

- These changes are incorporated based on the industry needs, feedback from stakeholders, programme specific criteria proposed by National & International bodies such as ABET, IEEE, ASME and ISTE.

#### **1.3.4 What are the value-added courses offered by the College and how does the College ensure that all students have access to them?**

Courses that are not included in the curriculum but are relevant to the program are offered as value added courses. Value added courses are offered as short term courses or full-term courses by all the departments. These courses are offered after the College Hours or during Weekends or during Semester vacation so that the students are free to take maximum number of value added courses. The knowledge acquired from such value added course will be assessed and evaluated by conducting periodical Tests and Quiz. Further the details of value-added courses offered by the various departments of the college are given **Annexure 1.3**.

A dedicated Skill and Career Development Department is functioning in the college for developing communication skill, soft skills, linguistic skills and verbal - non verbal reasoning skill for the benefit of the students.

In addition, Professional Trainers/Alumni are invited for developing the soft skills/Technical skills for the benefit of the students. This helps the students to prepare better for their future career.

The following table list the major value-added courses offered by the various departments of the college.

| <b>Name of the course</b>                              | <b>Course offered to the students (Mention year eg II year)</b> | <b>No. of beneficiaries</b> | <b>Outcome</b>                                         |
|--------------------------------------------------------|-----------------------------------------------------------------|-----------------------------|--------------------------------------------------------|
| CATIA                                                  | II YEAR                                                         | 58                          | Get Knowledge about Designing Software                 |
| 3Ds max Archi. CADD                                    | III Year and IV Year                                            | 64+70                       | Gained Knowledge in Planning and Drafting              |
| RTL to GDSII Design                                    | III year                                                        | 75                          | Get Knowledge about Design                             |
| Soft skill Development or Placement Training Programme | III Year and II Year MCA                                        | 111                         | Get Knowledge about Soft skill                         |
| LABVIEW 50 Hrs/ Stu                                    | IV Year                                                         | 36                          | Helped students to enrich knowledge on LABVIEW         |
| RTL to GDSII Design                                    | III year                                                        | 75                          | Get idea about designing                               |
| Hands on Training in Embedded System                   | III year                                                        | 60                          | Helped students to enrich knowledge on Embedded System |

| <b>Name of the course</b>                               | <b>Course offered to the students (Mention year eg II year)</b> | <b>No. of beneficiaries</b> | <b>Outcome</b>                                                                                                                                                               |
|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Soft skill Development or Placement Training Programme  | III Year and II Year MCA                                        | 109                         | Get Knowledge about Soft skill                                                                                                                                               |
| Java                                                    | III Year                                                        | 51                          | Apply the server side programming with database technologies                                                                                                                 |
| C# .NET                                                 | IV Year                                                         | 67                          | A common platform for all the supported languages using libraries                                                                                                            |
| Embedded Systems Design                                 | II Year                                                         | 53                          | Get Knowledge about Embedded Systems Design                                                                                                                                  |
| Program on chip level service and repair of cell phones | II Year & III Year                                              | 112                         | Get Knowledge about Program on chip level                                                                                                                                    |
| 3Ds max and Archi CADD                                  | III Year and IV Year                                            | 70                          | Gained Knowledge in advanced softwares                                                                                                                                       |
| PROE                                                    | III                                                             | 49                          | Students able to solve complex problem and develop the three dimensional model for real time applications                                                                    |
| STAAD Pro.                                              | III Year                                                        | 68                          | Gained Knowledge and 1 student got Placed                                                                                                                                    |
| Relay based Automation, PLC and SCADA                   | IV year                                                         | 55                          | Students are able to solve complex problem and develop the three dimensional model for real time applications.<br>These courses enhance placement opportunities to students. |
| E-Tabs and Primavera                                    | III Year                                                        | 35                          | Gained Knowledge in E-Tabs and Primavera                                                                                                                                     |
| Financial Derivatives                                   | II Year MBA                                                     | 37                          | 14 Students got placed in HCL in derivatives as Financial Analyst.                                                                                                           |
| Banking and Insurance                                   | II Year MBA                                                     | 15                          | 4 Students got placed in City Union Bank                                                                                                                                     |

| <b>Name of the course</b> | <b>Course offered to the students (Mention year eg II year)</b> | <b>No. of beneficiaries</b> | <b>Outcome</b>                                                                                                |
|---------------------------|-----------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------|
| C and HTML                | II Year                                                         | 49                          | Helps to develop remote applications with database technology                                                 |
| C and data structures     | III Year                                                        | 48                          | Helps to perform correct and efficient ways of solving problems                                               |
| PHP & MySQL               | III Year                                                        | 48                          | Helps to develop web based software applications and interact with databases                                  |
| ANSYS                     | II,III & IV year                                                | 11                          | Students are able to solve complex problem and develop the three dimensional model for real time applications |
| Load Control and DGR      | II, III & IV Year                                               | 21                          | Get Knowledge about Load calculation and DGR                                                                  |
| Vedic Mathematic          | II year                                                         | 22                          | Problem solving skills and Mini project                                                                       |
| CCNA                      | II,III year                                                     | 16                          | Problem solving skills and Mini project                                                                       |
| Primavera                 | IV year                                                         | 35                          | Gained Knowledge in software                                                                                  |

### **1.3.5 Has the College introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?**

National Skills Development Corporation (NSDC) acts as a catalyst in skill development by providing funding to enterprises, companies and organizations that provide skill training. The thrust areas/skill sets proposed by the National Skill Development Corporation is periodically referred and wherever necessary changes are made in the new curriculum and additional electives are introduced in consonance with the national requirements. As per the above direction, the college is committed to excellence in higher education. Two courses were granted under UGC – KAUSHAL programming courses entitled Plumbing for Civil Engineering Department and Logistics and Supply Chain Management for Mechanical Engineering Department in the level of B.Voc and M.Voc under self supporting mode. The approval of the Anna University for the same is anticipated. Courses offered by the college based on higher order skills prescribed by NSDC are listed in the following table.



| <b>Priority councils listed by NSDC</b>                                        | <b>Courses/Value added course/Programme</b>                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Plumbing Skill Council of India                                                | <ul style="list-style-type: none"> <li>• Engineering Practices laboratory</li> </ul>                                                                                                                                                                                                            |
| Construction Sector Skill council                                              | <ul style="list-style-type: none"> <li>• Building construction</li> <li>• Advanced construction technology</li> <li>• Concrete technology</li> <li>• Building materials</li> <li>• Engineering Practices laboratory</li> </ul>                                                                  |
| IT -ITes Sector Skill council                                                  | <ul style="list-style-type: none"> <li>• Advanced Java</li> <li>• Object Oriented Programming</li> <li>• Programming Paradigms</li> <li>• C# and .Net Framework</li> <li>• Internet Programming</li> <li>• Computer Networks</li> <li>• Computer Organization and Architecture</li> </ul>       |
| Handicrafts sector skill council                                               | <ul style="list-style-type: none"> <li>• Workshop on Wood Carving</li> <li>• UAV design and autopilot programming (fixed wing)</li> <li>• Rubber powered micro aerial vehicle</li> </ul>                                                                                                        |
| Banking/ Financial Services and Insurance (BFSI) Sector Skill Council of India | <ul style="list-style-type: none"> <li>• Engineering Economics and Cost Analysis</li> </ul>                                                                                                                                                                                                     |
| Telecom Sector Skill Council of India                                          | <ul style="list-style-type: none"> <li>• Wireless networks</li> <li>• Mobile Computing, Wireless Communication</li> </ul>                                                                                                                                                                       |
| Media and Entertainment Skill Council                                          | <ul style="list-style-type: none"> <li>• Computer Graphics and Multimedia</li> <li>• Television and Video Engineering</li> </ul>                                                                                                                                                                |
| Automotive Skill Development Council                                           | <ul style="list-style-type: none"> <li>• Automobile Engineering</li> </ul>                                                                                                                                                                                                                      |
| Electronics Skill Council of India                                             | <ul style="list-style-type: none"> <li>• Mechatronics</li> <li>• Electronics and Instrumentation</li> <li>• Electronics and Communication</li> <li>• Control Engineering</li> <li>• Digital Image Processing</li> <li>• Robotics and Machine Vision</li> <li>• Industrial Automation</li> </ul> |
| Aviation & Aerospace Sector Skill Council                                      | <ul style="list-style-type: none"> <li>• Avionics</li> <li>• Aircraft Microprocessor and Applications</li> </ul>                                                                                                                                                                                |

| Priority councils listed by NSDC         | Courses/Value added course/Programme                                                                                                                                                                                             |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Sector Skill Council               | <ul style="list-style-type: none"> <li>• Energy Auditing</li> <li>• Hands on Training Programme on PLC and SCADA</li> <li>• Workshop on Basic Electrical Switches and Panel Wiring</li> <li>• Power plant Engineering</li> </ul> |
| Iron & Steel Sector Skill Council        | <ul style="list-style-type: none"> <li>• Engineering materials and Metallurgy</li> </ul>                                                                                                                                         |
| Textiles & Handloom Sector Skill Council | <ul style="list-style-type: none"> <li>• Composite materials</li> <li>• Manufacturing Technology</li> </ul>                                                                                                                      |

## 1.4 FEEDBACK SYSTEM

### 1.4.1 Does the College have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

Yes. The college has a formal mechanism to obtain feedback from the students regularly regarding the curriculum and syllabi and the method of delivery by the faculty concerned. The College has a three tier feedback system to ensure that the Programs and student services cater to the specific needs of the community and all its Stakeholders.

During the course of study, the class committee meeting is conducted atleast two times in a semester. The committee consists of 6 students who representing the academic and non academic problems in the meeting. Based on this feedback received on the curriculum and content of the courses due consideration was given by the curriculum development committee.

An exit feedback is also collected from the outgoing students for their satisfaction in the contents of course and the infrastructure of the department and the college. Valid suggestions and feedback received from the students were considered while revising the contents of the curriculum and syllabus.

Feedback collected from Alumni and employers are used to measure the attainment of program educational objectives and to modify the curriculum to include the real time applications. These feedbacks are considered by the curriculum development committee. Importance is given to identify the areas where a graduate needs more improvement to perform as per expectations of the employers.

Based on the feedback received from the students modifications are carried out in the subsequent regulations. In addition, Value added courses including the concepts suggested by the students.

Modified curriculum is updated on the college website and the changes are intimated to the different stakeholders group.

**1.4.2 Does the College elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods adopted to do the same - (conducting webinar, workshop, online forum discussion etc). Give details of the impact on such feedback.**

Yes. The college elicits feedback on the curriculum from national and international faculty.

- Apart from the University nominees academic experts from reputed institutions in India and abroad are serving as members of Board of Studies of every programme and Academic Council.
- The feedbacks received from them are used for effective designing of the curriculum and syllabus. Online feedbacks are received from National and International faculty for upgrading the curriculum and syllabus. Feedbacks from National and International academic peers on curriculum are also collected in person during their visit to the college as resource persons or chief guest for Conference, Workshop, Seminars, Guest lectures etc. Few notable feedbacks received are given below.
- Prof. Chiang Yung –Chuan Andes Technology Corporation, Taiwan suggested including courses based on current trends like Internet of things (IOT). Based on his suggestion IOT Courses have been included.
- Dr. Anand Paul, Director-CCMP Lab, Kung Pook National University, South Korea suggested that to include Seminar on Research Methodology in PG curriculum so that Students are able to concentrate more on research.
- Mr. Vigneshwar Dhinakaran, Scientist, Mozilla Decision Scientist, Musigma Innovation and Development, Bangalore, suggested to include topics of Finite Automata and Regular Expression Syntax Analysis in the syllabus of the course as system software and compiler design.
- Mr. G. Ravishankar, Senior Hardware Architect, HCL Info systems Ltd, Noida suggested developing applications through mini project and including in the course. As per his suggestion mini project is included in the regular course.
- Dr. Vijayaraghavan Viswanathan, Scientist & Researcher, CERN-ARDENT, Switzerland suggested including Industry Oriented courses in the curriculum. As per his suggestion two courses from Infosys namely Composing mobile Apps and Business Intelligence – Data ware housing and analytics has been included.
- Dr. Kahar Osman, Faculty of Mechanical Engineering, University Technology Malaysia (UTM), Kuala Lumpur had gone through the syllabus of the courses for Mechanical Engineering and explained the syllabus at the International level of Mechanical Engineering Programme.
- Dr. Kua-anan Techato, Deputy Dean, Research and Academic, Faculty of Environmental Management, Prince of Songkla University, Hadyai, Thailand has given feedback on credits assignments for courses in Civil and Mechanical programmes. He also suggested adding the topic of e-waste management in Environmental Engineering courses.

- In addition to this, Infosys had offered Faculty Development Programme for effective delivery of two courses.

### **1.4.3 Specify the mechanism through which alumni, employers, industry experts and community give feedback on curriculum enrichment and the extent to which it is made use of.**

#### ***Alumni:***

The alumni are nominated to participate in BoS of the various programmes. Their contributions based on the recent developments in the industries are used for the enrichment of the curriculum. In addition to this, the feedbacks from the other alumni are also collected during the alumni meets by the respective departments. Alumni are invited for giving guest lectures throughout the year and feedback on curriculum is obtained.

#### ***Employers / Industry Experts:***

Feedbacks on curriculum enrichment from employers are obtained during placement drives and through mails. Feedbacks are received from the industrial experts during BoS meetings and during their visits as resource person to give lectures in seminars and workshops. They contribute towards enrichment of curriculum with content relevance to cater the latest industrial developments.

#### ***Parents:***

The college acknowledges that parent's inputs are very important for shaping the curriculum. Feedback is obtained from the parents through various modes like e-mails and through hard copy forms. Parents are also invited to give their feedback during the parents meeting.

#### ***For example:***

- Dr. S. Uma Maheswari suggested that the Digital Image Processing course may be replaced by the course machine vision.
- Mr.Chandru suggested including Connectivity for Databases in the course In CS204.

#### ***Community:***

Faculty members, Members of society, Industry and prominent member from Alumni and a member from prominent employers are included in BoS. They collectively provide valuable feedback towards the improvement of curriculum design and development. Moreover Faculty members of the institution constantly interact informally with faculty members of other institutions and industry personnel, to get inputs for curriculum development.

Feedbacks collected are analyzed during the departmental meetings. The modified curriculum and syllabus incorporating the changes are sent to the Board of Studies members, Standing Committee and Academic Council for approval. Typical feedback received and the outcome to curriculum enrichment is shown in **Annexure 1.4**.

### **1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the Institution in ensuring effective development of the Curriculum?**

**(a) Quality sustenance**

- The colleges adopt the quality measures given by the regulatory bodies like AICTE, UGC and Affiliated University.
- In all stages of Curriculum Design nominees of the University contributing towards maintaining the Quality in Design of Curriculum and Design.
- Feedback also received from the employers to update the Curriculum for the requirement of the Industry.
- Quality circles are formed in each department as per the guidelines provided by IQAC. During the quality circle meetings issues pertaining to effective development of curriculum are discussed in detail. Major discussions include Curriculum review and consistency, measures to be adopted for effective implementation of curriculum.

**(b) Quality Enhancement**

- In addition to that, college also invites Academic experts, including legal expert, Industrial expert and alumni entrepreneur to enhance the curriculum design process.
- Online feedback also received from National and International Academic experts to enhance the curriculum design.
- The sustenance of the quality is ensured through the audits like IQAC internal and external audits. Reports and comments given by these audits are considered for ensuring the quality sustenance and enhancement.

**Any additional information regarding Curricular Aspects, which the Institution would like to include?**

The Autonomous status of the College has allowed us to adopt the following in the Programs offered:

- The number of elective subjects has increased substantially when compared to Anna University system previously adopted. Open electives of Interdisciplinary nature are introduced and the students are motivated to take them.
- Hands on training, Practical oriented labs, advanced courses and Value added courses are introduced in the revised CBCS system.
- Provisions are made in curriculum to undertake Mini and major project works in collaboration with industry.
- One credit courses are also offered to develop the various skills of the students other than teaching learning process.
- Students were engaged in Industrial Training; club Activities and National Cadet Corps National Service Scheme, Youth Red cross, Red ribbon club and Others Professional activities like SAE, ISHRE etc.
- Flexibility in the curriculum to study final year electives in earlier semesters under fast track system, enabling the students to take up internship and industrial projects.



***Criterion II***  
***Teaching – Learning and***  
***Evaluation***

## CRITERION II

### TEACHING – LEARNING AND EVALUATION

*Teaching is deliberate intervention that involves the planning and implementation of instructional activities and experiences to meet intended learner outcome according to teaching plan. Learning is relatively permanent change in an individual's behavior (knowledge, skill and attitude) that can occur at any time or place as a result of conscious. Teaching learning process is a method for monitoring and judging the overall quality of learning or teaching based on objectives, data and scientific criteria which bring about desired changes in the students. This consists of four basic elements such as Assessment, Planning, Implementation and Evaluation.*

#### 2.1 STUDENT ENROLMENT AND PROFILE

##### 2.1.1 How does the college ensure publicity and transparency in the admission process?

SNS College of Technology is an autonomous college, affiliated to Anna University, Chennai. It is one of the premier Engineering Colleges in the state of Tamil Nadu. The college earned its credentials through its strength in academics, excellent industrial linkage, well designed value added courses to nurture and turn out a true professional. Admission is purely based on merit cum reservation basis as per the norms of AICTE and the Government of Tamil Nadu.

#### **Publicity**

Admission notification is posted in the College Website, published in the leading national/ regional daily newspapers and word of mouth from students, staff and Alumni. The notification contains detailed information about the programmes offered, eligibility criteria and process of admission as well as academic support facilities.

Publicity is ensured through the following means:

- College website [www.snsct.org](http://www.snsct.org)
- Advertisements, Events and Programmes are featured in the Newspapers regularly
- College participation in Conferences, Industrial Exhibitions, Educational Fairs, and Alumni meets.
- Active participation in social awareness programmes and nation building activities such as Swatch Bharath Mission, Helmet awareness, Voter awareness, environment awareness program, eye camp, blood donation camp, Dengue Awareness Camp etc.
- Conducting training programmes for school children, Police departments, School Teachers etc.
- Organizing competitions like science expo, project expo, elocution, quiz and drawing for polytechnic and school students.
- Open days are conducted where stake holders from the community are invited for guided tour of the college.
- Provides defence entrance training for school and polytechnic students through SNS Defence Academy.
- Interactive TV show and ad scrolling, publishing Brochures, advertisement through FM radio, advertising in movie theatre, etc.,



## Transparency

Transparency is ensured in the admission procedure by strictly adhering to the guidelines issued by AICTE, Government of Tamil Nadu, Directorate of Technical Education and Anna University. 65% of the seats are filled through Single Window System of Tamil Nadu Engineering Admissions (TNEA) conducted by the Anna University, Chennai based on the rank list. The remaining 35% of seats are filled under the management quota as per the University guidelines and in coordination with the Consortium of Self financing Professional, Arts and Science Colleges (COSPOSC).

For PG admission, 50% of the seats of M.E/ M.Tech programmes are filled based on the score in Tamil Nadu Common Entrance Test (TANCET) through Tamil Nadu Common Admissions (TANCA). Similarly, 50% of seats of MBA/ MCA programmes are filled by single window counselling system by Anna University, Chennai based on TANCET score. The remaining 50% of seats under management quota are filled by COSPOSC and Anna University regulations.

Admission procedure for the Management quota is briefed below:

1. A candidate seeking admission through Management Quota should apply to the COSPOSC in Tamil Nadu.
2. Rank List shall be made on the basis of marks in the relevant subjects in the qualifying Examinations.
3. Based on the rank list published by the COSPOSC, the students seeking admission to the college through management quota are admitted.
4. Based on the reservation policy, a selection list is prepared and displayed in the Notice Board.
5. Registers connected to students admission such as sale of application forms, List of applications received, dispatch of interview cards are maintained.
6. Interview cards are dispatched to the selected candidates informing them about the original certificates to be brought, fees to be paid, the date and time they should attend admission process in the college.

### **2.1.2 Explain in detail the process of admission put in place for UG, PG and Ph.D. programmes by the College. Explain the criteria for admission (Ex. (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common test conducted by state agencies and national agencies (v) others followed by the College?**

The students are admitted to UG, PG and Research programmes on the basis of the eligibility and guidelines issued every year by the AICTE, the Govt. of Tamil Nadu and Anna University.

#### **a) General**

The College does not offer any General course.

#### **b) Professional**

Refer **Annexure 2.1**

#### **c) Vocational**

The college does not offer any vocational course.

## **Admission process for UG Programmes**

**Admission is made through two modes (a) Government Quota and (b) Management Quota as follows**

### **Admission made through Government Quota**

Seats equal to 65% of the sanctioned intake are filled through the TNEA single window system of Anna University. The TNEA admission is based on the marks obtained in the HSC or equivalent with a minimum average percentage in Mathematics, Physics and Chemistry. Anna University publishes the overall rank list, Community wise rank list and counselling schedule. The aspiring candidates opt for the college and branch of study of their choice during single window counselling.

### **Admission made through Management Quota**

35% of the sanctioned intake is reserved under management quota as per University guidelines and Government norms. For the Management Quota seats, the COSPOSC in Tamil Nadu norms are followed.

The complete list of the selected candidates is approved by the Directorate of Technical Education (DoTE).

Refer **Annexure 2.1**

## **Admission process for PG Programmes**

### **Admission made through Government Quota**

For PG admission, 50% of the seats of M.E/ M.Tech/ MBA/ MCA programmes are filled based on the score in TANCET through Tamil Nadu Common Admissions (TANCA) conducted by Anna University, Chennai.

### **Admission made through Management Quota**

For PG admission, 50% of seats are filled under management quota by the process as per University guidelines and Government norms. For the Management Quota seats, the COSPOSC in Tamil Nadu norms are followed.

Refer **Annexure 2.1**

## **Admission process for Ph.D. Programmes**

- Candidate registering for Ph.D Programme shall apply twice a year based on the call/ notification by Anna University
- Internal/ external candidates willing to register for Ph. D give a presentation on the research topic. The panel members constituted by R&D of the college submit their recommendations, based on which the candidate is recommended for registration with Anna University
- The application of Ph.D. Programme is processed by committees constituted by the Director (Research) of Anna University followed by entrance exam and interview

Refer **Annexure 2.1**

### 2.1.3 Does the College have a mechanism to review its admission process and student profiles annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

Yes the college has a mechanism to review its admission process and student profiles annually. The college follows the norms set by AICTE, Anna University and Consortium for admission and the student profiles are analysed annually.

Once the Directorate of Technical Education approves the list of provisionally admitted students to various programmes, it will be deemed that the process of admission is completed for that year. Each department as an annual feature, analyses the admitted students of the programmes in various aspects; admitted strength against sanctioned strength, gender wise admission, cut-off marks secured in the qualifying exams, place and name of the college last studied, the students' socio-economic and cultural background etc.

The cut-off details of students admitted under the Government and Management Quota during the past 4 years is given below:

| Cut-off   | 2016-17 |     | 2015-16 |    | 2014-15 |     | 2013-14 |     | 2012-13 |     |
|-----------|---------|-----|---------|----|---------|-----|---------|-----|---------|-----|
|           | GQ      | MQ  | GQ      | MQ | GQ      | MQ  | GQ      | MQ  | GQ      | MQ  |
| > 170     | 349     | 160 | 396     | 44 | 377     | 9   | 307     | 2   | 97      | 6   |
| 150 – 170 | 158     | 97  | 93      | 62 | 110     | 48  | 158     | 49  | 233     | 61  |
| 100 – 150 | 89      | 64  | 94      | 68 | 99      | 145 | 126     | 160 | 156     | 111 |
| < 100     | 18      | 10  | 25      | 13 | 13      | 32  | 19      | 24  | 12      | 8   |

The profile of each student is collected in a prescribed format by the tutor and is updated in a regular frequency till the completion of the programme. The lacuna, if any, in the system of admission is identified and remedial measures are adopted. Suitable steps are undertaken by the admission committee to intensify the publicity for the admission for such programmes. Based on the need and demand, the admission committee makes recommendation regarding increasing intake of the existing programmes such as Mechanical Engineering and/ or introducing new programmes such as Automobile Engineering, Agriculture Engineering, Biomedical Engineering, Civil & Planning and Mechanical & Automation.

To get an insight into the student profile, the college collects the following information:

- Gender classification
- Geographic distribution
- Medium of study
- Community-wise cut-off marks

The outcome of the analysis also helps to

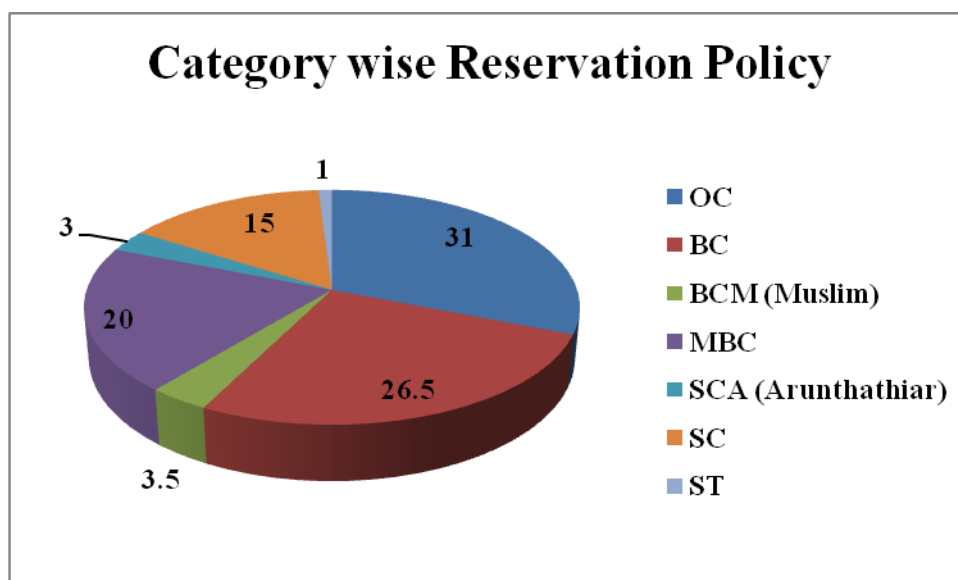
- Plan for admission promotion
- Conduct the communication training programme for the students coming from the medium other than English

- Conduct special classes for the vocational group and lateral entry students to develop their analytical skills in Mathematics, Chemistry and Physics

#### 2.1.4 What are the strategies adopted to increase/ improve access to students belonging to the following categories

- SC/ ST
- OBC
- Women
- Different Categories of Persons with Disabilities
- Economically Weaker Section
- Outstanding Achievers in Sports and Extracurricular Activities

The college strictly adheres to the reservation policy of the State Government during admission. This helps to uplift the weaker section of the community.



The strategies adopted to improve the access of the different categories are given below.

- SC/ ST

During the single window counseling system, students from SC/ST/SCA category are allotted seats as per the reservation policy followed by the state Government and University from time to time. College does not collect any tuition fee from the SC/ ST/ SCA students until the government pays.

- OBC

Students from MBC/BC/BCM/Differently abled and sports category are allotted seats during the single window system, as per the reservation policy followed by the state Government and University from time to time.

- Women

The College does not categorize the students on the basis of gender. Currently, during the academic year 2016 -17, out of a total strength of 945 students admitted, 27.9% are girl

students. To encourage the admission of women candidates, the college provides special provisions such as hostel facilities, residential wardens and two-tier security system, etc. The college also ensures adequate availability of lady faculty members so as to enable the students to have close interaction and counseling.

- **Different categories of persons with disabilities**

The college has made provisions for differently-abled students and makes all effort for differently-abled students to have a successful completion of the course.

- **Economically weaker sections**

The College facilitates the process of availing Government scholarship for economically weaker sections. In addition, the college management offers various scholarship schemes for students on the basis of economic status and merit means.

### **Outstanding achievers in sports and extracurricular activities**

The college provides the following facilities and benefits to encourage sports and extracurricular activities

- Well established sports facilities available in the campus such as: Gym (Girls & Boys), Indoor games (shuttle, ball-badminton, Chess, Carom), Volley ball, Basketball, Cricket etc.
- Financial assistance/ On-duty is given for participating in Regional/ State/ National/ International level events. During 2015-16 Rs. 2,23,000/- amount was given.
- College has facilitated the music club with musical instruments such as base guitar, acoustic guitar, electric guitar, Tabla, drums, electronic keyboard and required infrastructure.
- College has Act On Dream club which houses many clubs such as Team Hype (Sports, Music, Dance, Drawing, Photography, Reading and Literature), Triple Helix (Photoshop, Soft skills, Communication Skills, Programming Language, CAD / CAM, Multimedia, Web Designing, MATLAB, App. Development), Scholars on a Cause, and Random acts of kindness.
- The college provides necessary facilities for the smooth running of club activities.

**Any other (First generation graduates/ Rural students)**

In Tamil Nadu, the State Government bears Rs.20,000/- of the total tuition fee payable every year by the student who is a first graduate in the family. The money is disbursed by the end of every calendar year by the state government to the college directly. This benefit is passed on to the students who fall under the first graduate category.

The scholarship disbursement details for the last 4 years are presented below:

**Government Scholarship**

| Type of scholarship | 2012-2013       |              | 2013-2014       |              | 2014-2015       |              | 2015-2016       |              |
|---------------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|
|                     | No. of students | Amount (Rs.) | No. of students | Amount (Rs.) | No. of students | Amount (Rs.) | No. of students | Amount (Rs.) |
| SC/ ST              | 105             | 8,97,750     | 231             | 20,86,700    | 246             | 20,20,850    | 231             | 1,06,15,000  |
| First Graduate      | 618             | 1,23,60,000  | 686             | 1,37,20,000  | 1336            | 2,67,20,000  | 1275            | 2,55,00,000  |
| BC/MBC              | 103             | 3,76,329     | 402             | 22,92,450    | 994             | 38,21,100    | 744             | 44,04,305    |

**Management Scholarship:**

| 2012-2013       |              | 2013-2014       |              | 2014-2015       |              | 2015-2016       |              | 2016-2017       |              |
|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|
| No. of students | Amount (Rs.) | No. of students | Amount (Rs.) | No. of students | Amount (Rs.) | No. of students | Amount (Rs.) | No. of students | Amount (Rs.) |
| 13              | 2,92,500     | 78              | 6,33,750     | 37              | 5,50,000     | 60              | 12,65,000    | 238             | 71,75,000    |

## UG ADMISSION (2016-17)

| S. No. | Department  | Sanctioned Intake | Admitted | Male | Female | GQ  | MQ | OC |   | BCM |   | BC |    | MBC |    | SCA |   | SC |   | ST |   |
|--------|-------------|-------------------|----------|------|--------|-----|----|----|---|-----|---|----|----|-----|----|-----|---|----|---|----|---|
|        |             |                   |          |      |        |     |    | M  | F | M   | F | M  | F  | M   | F  | M   | F | M  | F | M  | F |
| 1      | AE          | 60                | 25       | 21   | 4      | 12  | 13 | 5  | 0 | 1   | 0 | 8  | 2  | 5   | 2  | 0   | 0 | 2  | 0 | 0  | 0 |
| 2      | Agri. Engg. | 60                | 49       | 27   | 22     | 40  | 9  | 1  | 3 | 0   | 1 | 16 | 8  | 5   | 7  | 0   | 0 | 5  | 3 | 0  | 0 |
| 3      | AU          | 60                | 49       | 48   | 1      | 32  | 17 | 3  | 0 | 1   | 0 | 32 | 1  | 9   | 0  | 0   | 0 | 3  | 0 | 0  | 0 |
| 4      | BME         | 60                | 51       | 22   | 29     | 48  | 3  | 2  | 1 | 0   | 0 | 7  | 18 | 12  | 5  | 0   | 0 | 1  | 5 | 0  | 0 |
| 5      | CE.         | 60                | 52       | 46   | 6      | 39  | 13 | 0  | 0 | 0   | 1 | 29 | 5  | 12  | 0  | 0   | 0 | 5  | 0 | 0  | 0 |
| 6      | CEP         | 60                | 16       | 16   | 0      | 13  | 3  | 1  | 0 | 0   | 0 | 12 | 0  | 3   | 0  | 0   | 0 | 0  | 0 | 0  | 0 |
| 7      | CSE         | 180               | 148      | 74   | 74     | 96  | 55 | 8  | 6 | 3   | 0 | 41 | 49 | 18  | 18 | 0   | 0 | 4  | 1 | 0  | 0 |
| 8      | ECE         | 180               | 159      | 80   | 79     | 116 | 43 | 2  | 3 | 2   | 3 | 47 | 55 | 26  | 14 | 1   | 0 | 2  | 3 | 0  | 1 |
| 9      | EEE         | 60                | 49       | 39   | 10     | 28  | 21 | 1  | 0 | 1   | 0 | 26 | 4  | 11  | 4  | 0   | 0 | 0  | 2 | 0  | 0 |
| 10     | EIE         | 60                | 22       | 19   | 3      | 13  | 9  | 0  | 0 | 1   | 0 | 15 | 3  | 3   | 0  | 0   | 0 | 0  | 0 | 0  | 0 |
| 11     | IT          | 60                | 54       | 21   | 33     | 29  | 25 | 1  | 2 | 1   | 2 | 15 | 18 | 4   | 11 | 0   | 0 | 0  | 0 | 0  | 0 |
| 12     | ME          | 180               | 174      | 174  | 0      | 143 | 31 | 8  | 0 | 6   | 0 | 94 | 0  | 41  | 0  | 1   | 0 | 23 | 0 | 1  | 0 |
| 13     | MEA         | 60                | 46       | 46   | 0      | 38  | 8  | 1  | 0 | 3   | 0 | 28 | 0  | 12  | 0  | 0   | 0 | 2  | 0 | 0  | 0 |
| 14     | MCT         | 60                | 51       | 48   | 3      | 35  | 16 | 2  | 1 | 2   | 0 | 31 | 1  | 11  | 1  | 0   | 0 | 2  | 0 | 0  | 0 |

## PG ADMISSION (2016-17)

| S. No. | Department        | Sanctioned Intake | Admitted | Male | Female | GQ | MQ | OC |   | BCM |   | BC |    | MBC |   | SCA |   | SC |   | ST |   |
|--------|-------------------|-------------------|----------|------|--------|----|----|----|---|-----|---|----|----|-----|---|-----|---|----|---|----|---|
|        |                   |                   |          |      |        |    |    | M  | F | M   | F | M  | F  | M   | F | M   | F | M  | F | M  | F |
| 1      | MBA               | 120               | 52       | 34   | 18     | 8  | 44 | 2  | 3 | 1   | 0 | 17 | 14 | 9   | 0 | 0   | 0 | 4  | 1 | 1  | 0 |
| 2      | MCA               | 60                | 0        | 0    | 0      | 0  | 0  | 0  | 0 | 0   | 0 | 0  | 0  | 0   | 0 | 0   | 0 | 0  | 0 | 0  | 0 |
| 3      | MCA (Lateral)     | 60                | 26       | 13   | 13     | 9  | 17 | 3  | 1 | 0   | 0 | 9  | 7  | 1   | 5 | 0   | 0 | 0  | 0 | 0  | 0 |
| 4      | M.E – CS          | 18                | 0        | 0    | 0      | 0  | 0  | 0  | 0 | 0   | 0 | 0  | 0  | 0   | 0 | 0   | 0 | 0  | 0 | 0  | 0 |
| 5      | M.E – CSE         | 18                | 6        | 0    | 6      | 0  | 6  | 0  | 1 | 0   | 0 | 0  | 2  | 0   | 3 | 0   | 0 | 0  | 0 | 0  | 0 |
| 6      | M.Tech - IT       | 18                | 0        | 0    | 0      | 0  | 0  | 0  | 0 | 0   | 0 | 0  | 0  | 0   | 0 | 0   | 0 | 0  | 0 | 0  | 0 |
| 7      | M.E – PSE         | 18                | 2        | 1    | 1      | 0  | 0  | 1  | 0 | 0   | 0 | 0  | 0  | 0   | 1 | 0   | 0 | 0  | 0 | 0  | 0 |
| 8      | M.E – SE          | 18                | 0        | 0    | 0      | 0  | 0  | 0  | 0 | 0   | 0 | 0  | 0  | 0   | 0 | 0   | 0 | 0  | 0 | 0  | 0 |
| 9      | M.E – STE         | 18                | 14       | 12   | 2      | 10 | 4  | 3  | 0 | 0   | 0 | 7  | 1  | 1   | 0 | 0   | 0 | 1  | 1 | 0  | 0 |
| 10     | M.E – TE          | 18                | 1        | 1    | 0      | 0  | 1  | 0  | 0 | 0   | 0 | 1  | 0  | 0   | 0 | 0   | 0 | 0  | 0 | 0  | 0 |
| 11     | M.E - VLSI Design | 18                | 2        | 1    | 1      | 0  | 2  | 0  | 0 | 0   | 0 | 0  | 1  | 1   | 0 | 0   | 0 | 0  | 0 | 0  | 0 |



**2.1.5 Furnish the number of students admitted in the College in the last four academic years.**

**a) Students Admitted in B.E/ B.Tech**

| Categories  | 2012-13 |        | 2013-14 |        | 2014-15 |        | 2015-16 |        | 2016-17 |        |
|-------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
|             | Male    | Female | Male    | Female | Male    | Female | Male    | Female | Male    | Female |
| SC          | 48      | 22     | 47      | 22     | 42      | 10     | 55      | 15     | 51      | 14     |
| ST          | -       | -      | 3       | 1      | -       | -      | 2       | -      | 1       | 1      |
| OBC         | 344     | 215    | 466     | 240    | 484     | 216    | 497     | 181    | 594     | 233    |
| General     | 34      | 21     | 41      | 25     | 62      | 19     | 34      | 11     | 35      | 16     |
| Others      | -       |        |         |        |         |        |         |        |         |        |
| Total       | 426     | 258    | 557     | 288    | 588     | 245    | 588     | 207    | 681     | 264    |
| Batch Total | 684     |        | 845     |        | 833     |        | 795     |        | 945     |        |

**b) Students Admitted in M.E/ M.Tech/ MBA/ MCA**

| Categories  | 2012-13 |        | 2013-14 |        | 2014-15 |        | 2015-16 |        | 2016-17 |        |
|-------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
|             | Male    | Female | Male    | Female | Male    | Female | Male    | Female | Male    | Female |
| SC          | 9       | 9      | 9       | 9      | 13      | 5      | 7       | 1      | 5       | 2      |
| ST          | 0       | 1      | 0       | 0      | 1       | 0      | 0       | 0      | 1       | 0      |
| OBC         | 89      | 87     | 144     | 113    | 96      | 82     | 73      | 45     | 47      | 34     |
| General     | 12      | 19     | 12      | 9      | 9       | 10     | 8       | 6      | 9       | 5      |
| Others      | -       |        |         |        |         |        |         |        |         |        |
| Total       | 110     | 116    | 165     | 131    | 119     | 97     | 88      | 52     | 62      | 41     |
| Batch Total | 226     |        | 296     |        | 216     |        | 140     |        | 103     |        |

**c) Students Admitted in Ph.D.**

| Categories  | 2012-13 |        | 2013-14 |        | 2014-15 |        | 2015-16 |        | 2016-17 |        |
|-------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
|             | Male    | Female | Male    | Female | Male    | Female | Male    | Female | Male    | Female |
| SC          | -       | -      | -       | -      | 2       | -      | 3       | -      | -       | -      |
| ST          | -       |        |         |        |         |        |         |        |         |        |
| OBC         | 5       | 4      | 9       | 7      | 13      | 3      | 8       | 3      | 16      | 4      |
| General     | -       |        |         |        |         |        |         |        |         |        |
| Others      | -       |        |         |        |         |        |         |        |         |        |
| Total       | 5       | 4      | 9       | 7      | 15      | 3      | 11      | 3      | 16      | 4      |
| Batch Total | 9       |        | 16      |        | 18      |        | 14      |        | 20      |        |

**2.1.6 Has the College conducted any analysis of demand ratio for the various programmes offered by the College? If so, indicate significant trends explaining the reasons for increase/ decrease.**

The number of applications and the demand ratio for the programmes offered is not known since the admission is made through the Directorate of Technical Education. The cut-off mark and admitted strength are the indirect indication of the demand ratio of the programme. However, based on the demand trend and projected opportunities increase in-take has been made in Mechanical Engineering and Computer Science and Engineering. Further based on the need of the society and demand analyzed based on experts feedback new courses such as Automobile Engineering, Bio-Medical Engineering and Agriculture Engineering were newly started.

The demand ratio is given for the academic year 2016-17.

| Sl.No                 | Programme Level | Name of the Programme                       | Number of Applications                        | No. of students admitted | Demand Ratio                                  |
|-----------------------|-----------------|---------------------------------------------|-----------------------------------------------|--------------------------|-----------------------------------------------|
| <b>UNDER GRADUATE</b> |                 |                                             |                                               |                          |                                               |
| 1                     | B.E.            | Aeronautical Engineering                    | Not known as admissions are made through DoTE | 25                       | Not known as admissions are made through DoTE |
| 2                     | B.E.            | Automobile Engineering                      |                                               | 49                       |                                               |
| 3                     | B.E.            | Civil Engineering                           |                                               | 52                       |                                               |
| 4                     | B.E.            | Computer Science and Engineering            |                                               | 148                      |                                               |
| 5                     | B.E.            | Electrical and Electronics Engineering      |                                               | 49                       |                                               |
| 6                     | B.E.            | Electronics and Communication Engineering   |                                               | 159                      |                                               |
| 7                     | B.E.            | Electronics and Instrumentation Engineering |                                               | 22                       |                                               |
| 8                     | B.E.            | Mechanical Engineering                      |                                               | 174                      |                                               |
| 9                     | B.E.            | Mechatronics Engineering                    |                                               | 51                       |                                               |
| 10                    | B.Tech.         | Information Technology                      |                                               | 54                       |                                               |
| 11                    | B.E.            | Bio-Medical Engineering                     |                                               | 51                       |                                               |
| 12                    | B.E.            | Agriculture Engineering                     |                                               | 49                       |                                               |
| 13                    | B.E.            | Civil Engineering and Planning              |                                               | 16                       |                                               |

|                      |        |                                       |                                               |    |                                               |
|----------------------|--------|---------------------------------------|-----------------------------------------------|----|-----------------------------------------------|
| 14                   | B.E.   | Mechanical and Automation Engineering |                                               | 46 |                                               |
| <b>POST GRADUATE</b> |        |                                       |                                               |    |                                               |
| 15                   | M.E.   | Structural Engineering                | Not known as admissions are made through DoTE | 14 | Not known as admissions are made through DoTE |
| 16                   | M.E.   | Computer Science and Engineering      |                                               | 6  |                                               |
| 17                   | M.E.   | Software Engineering                  |                                               | 0  |                                               |
| 18                   | M.E.   | Power System Engineering              |                                               | 2  |                                               |
| 19                   | M.E.   | Communication Systems                 |                                               | 0  |                                               |
| 20                   | M.E.   | VLSI Design                           |                                               | 2  |                                               |
| 21                   | M.E.   | Thermal Engineering                   |                                               | 1  |                                               |
| 22                   | M.Tech | Information Technology                |                                               | 0  |                                               |
| 23                   | MBA    | Master of Businesses Administration   |                                               | 52 |                                               |
| 24                   | MCA    | Master of Computer Application        |                                               | 26 |                                               |

**2.1.7 Was there an instance of the College discontinuing a programme during last four years? If yes, indicate the reasons**

Yes. Only one PG programme has been withdrawn i.e., M.E – Electronics & Communication Engineering from the year 2014-15. As the department of ECE is already offering two other PG programmes namely M.E. Communication Systems and M.E. VLSI which have better employment opportunities.

**2.2 CATERING TO STUDENT DIVERSITY**

**2.2.1 Does the College organize orientation / induction programme for freshers? If yes, give details of the duration of programme, issues covered, experts involved and mechanism for using the feedback in subsequent years.**

Yes, the college organizes induction programme for freshers. Various expert members from industries, academia are invited to motivate the students. The feedback is also collected after the programme to ensure effectiveness. Feedback received is used for making improvements to the induction program for the forthcoming years. Details of the induction program are given in the following table.

| Year    | Name of the program                     | Duration |         | Name of the Resource person with designation                                                      | Topic/ Issues Covered                              | Beneficiaries |
|---------|-----------------------------------------|----------|---------|---------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------|
|         |                                         | From     | To      |                                                                                                   |                                                    |               |
| 2012-13 | Induction program & Orientation Program | 6.9.12   | -       | Dr.S.N.Subramanian<br>Chairman,<br>SNS Institution.                                               | Motivational Talk                                  | 684           |
|         |                                         | 7.9.12   | 8.9.12  | Principal, All Deans, All HODs                                                                    | About the college, Discipline, Rules & regulations |               |
| 2013-14 | Induction program & Orientation Program | 2.8.13   | -       | Prof.A.K.Pattabiraman,<br>Head, Accreditation process, TCS, Chennai                               | Motivational Talk                                  | 845           |
|         |                                         | 3.8.13   | 6.8.13  | Principal, Director, All Deans, All HODs                                                          | About the college, Discipline, Rules & regulations |               |
| 2014-15 | Induction program & Orientation Program | 8.8.14   | -       | Prof.A.K.Pattabiraman,<br>Head, Accreditation process, TCS, Chennai                               | Motivational Talk                                  | 833           |
|         |                                         | 9.8.14   | 12.8.14 | Principal, Director, All Deans, All HODs                                                          | About the college, Discipline, Rules & regulations |               |
| 2015-16 | Induction program & Orientation Program | 31.7.15  | -       | Dr.B.Sampath Kumar,<br>Former Principal & Secretary,<br>PSG College of Arts & Science, Coimbatore | Motivational Talk                                  | 795           |
|         |                                         | 1.8.15   | 3.8.15  | Principal, Director, All Deans, All HODs                                                          | About the college, Discipline, Rules & regulations |               |
| 2016-17 | Orientation Programme                   | 5.8.16   | 6.8.16  | Principal, Director, All Deans, All HODs                                                          | About the college, Discipline, Rules & regulations | 945           |

**2.2.2 Does the College have a mechanism through which the “differential requirements of student population” are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?**

Yes the Institution has a mechanism through which the differential requirements of student populations are being analyzed.

**Students' database preparation and profiling:** A data base is created with the details of the students under different titles which helps to profile the students under categories based on Mother tongue, Community, Place of residence, Parent details, Rural/ Urban background, Board of school, Medium of instruction, Higher secondary courses (Academic/ Vocational), Cut-off Marks, Quota through which admission was made (Government Quota/ Government Quota (First Graduate)/ Management Quota) and First graduate

**Based on the profile of students, steps are taken to address the differential requirements of the students as follows:**

- Before the commencement of classes, orientation programme is conducted.
- Bridge course is being conducted in Mathematics, Physics, Chemistry, English and Computer programming.
- Rural background students are counselled and motivated by their respective HOD and class advisor.
- Students from Vocational and Tamil medium are provided with special attention by every course teacher.

**Analysis of student population:**

| Year    | Total | Gender |       | Medium of study |         | Group    |         | Vocational Students | First Graduate | Other than 1 <sup>st</sup> Graduate |
|---------|-------|--------|-------|-----------------|---------|----------|---------|---------------------|----------------|-------------------------------------|
|         |       | Boys   | Girls | Tamil           | English | Computer | Biology |                     |                |                                     |
| 2012-13 | 684   | 426    | 258   | 87              | 597     | 397      | 272     | 15                  | 186            | 498                                 |
| 2013-14 | 845   | 557    | 288   | 154             | 691     | 464      | 370     | 11                  | 354            | 491                                 |
| 2014-15 | 833   | 588    | 245   | 123             | 710     | 515      | 296     | 22                  | 285            | 548                                 |
| 2015-16 | 795   | 588    | 207   | 101             | 694     | 477      | 297     | 21                  | 265            | 530                                 |
| 2016-17 | 945   | 681    | 264   | 138             | 807     | 470      | 452     | 23                  | 484            | 461                                 |

**Induction program of first year students and identification of differential requirements:**

The institution organizes fresher's induction day which includes the motivational speeches by eminent professors, information about the college, autonomous regulations, attendance, college regulations and also the new way of teaching-learning and facilitating program.

The mechanism of Induction program is designed so as to bridge the gap between the initial skills of individuals and what they need to enter and succeed in an engineering education. Immediately after commencement of the programme, students' needs are assessed through a counselling process (by the class Advisor) in terms of their performance in school, family background, skills sets in co-curricular and extracurricular activities and bridge course is designed to meet the requirements.

**2.2.3. Does the College provide bridge /Remedial /add - on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?**

**YES.** All the department conducts remedial and add-on courses for students.

**Bridge Courses:**

In order to undergo a smooth transition from school to college, a holistic approach in implementation of bridge course is a prior requisite factor. In this regard college conducts the bridge course which aims to build up the skill set to meet the minimum entry requirements for an engineering degree programme. This course includes basics of subjects comprising Mathematics, English, Physics, Chemistry and basic engineering core subjects along with Music club and Management games. Basic Engineering applications on various domains are handled by the department faculty members. A special timetable is scheduled for the bridge course which is a week long program for every batch of students admitted to the college.

| Year    | Duration   |            | Name of the program<br>(bridge/Remedial/<br>add-on courses) | Topics<br>covered | No. of<br>Beneficiaries |
|---------|------------|------------|-------------------------------------------------------------|-------------------|-------------------------|
|         | From       | To         |                                                             |                   |                         |
| 2012-13 | 10.09.2012 | 14.09.2012 | Bridge Course                                               | Basic<br>Science  | 684                     |
| 2013-14 | 07.08.2013 | 13.08.2013 | Bridge Course                                               | Basic<br>Science  | 845                     |
| 2014-15 | 13.08.2014 | 20.08.2014 | Bridge Course                                               | Basic<br>Science  | 833                     |
| 2015-16 | 04.08.2015 | 07.08.2015 | Bridge Course                                               | Basic<br>Science  | 795                     |
| 2016-17 | 08.08.2016 | 12.08.2016 | Bridge Course                                               | Basic<br>Science  | 945                     |

The schedule and content of the bridge course is designed and conducted before the commencement of regular classes.

**Remedial Courses:**

Based on classroom interactions and performance in various assessments, slow learners are identified. Based on the requirement of the slow learners, remedial classes are conducted. The performance of the students in internal assessment tests are informed to their parents through SMS. Remedial classes are also being conducted for those who failed in end semester examinations to get pass in arrear examinations. Special classes are conducted in Mathematics especially for hostel students. The remedial classes are conducted for the students after working hours so that the regular academic schedules remain unaffected. This helps to give individual attention to the slow learners, thereby improving their academic performance.

**Add-on Courses:**

Every Department organizes seminars, Value Added Courses, Self Study Electives, One-credit Courses and Soft Skills Training programmes. (Details are in section 1.3.4)

**2.2.4 Has the College conducted a study on the incremental academic growth of different categories of students;-student from disadvantaged sections of society, economically disadvantaged, physically challenged and slow learners etc.? If yes,**

**give details on how the study has helped the College to improve the performance of these students.**

Yes, the college regularly conducts study on the incremental academic growth of different categories of students. Based on the social background, performance, skills, area of interest and academic records, the students are categorized as disadvantaged sections of society, economically disadvantaged, physically challenged and slow learners. These analyses and their academic growth are presented and discussed in the monthly IQAC meetings and steps are taken to help such students.

**Steps taken for students from disadvantaged sections of society**

- Assistance is provided to avail government scholarships, they are regularly counseled and taken care to perform good in academics.

**Steps taken for economically disadvantaged students**

- Provision of scholarship (by the college) for economically backward students.
- Financial assistance through fees concessions. In case of no parent, full tuition fee waiver is given and in case of single parent, 50 % tuition fee waiver is given.
- Provision to pay the fees in installments
- Encouragement to get Government scholarships and facilitate the process of obtaining such scholarships.

**Steps taken for physically challenged**

- The class advisor or tutor identifies the nature of individual's problem and addresses them suitably.

**Steps taken for slow learners**

- Extra classes during evening hours or based on their convenience
- Discussing University Question Papers
- Personal attention during Tutorial & Lab Classes
- Discussing the student progress with their parents at regular intervals.
- Bridge courses for lateral entry students
- The Tamil medium students who face problem with English as medium of instruction are given a foundation course in English through Easy English module and special teaching is provided during evening hours after regular classes.
- Special classes and tests for the needy students
- Motivation lectures
- Psychological counselling for the needy students

These initiatives are periodically monitored by the HoD/Dean after each internal assessment tests. The results are discussed and the steps taken are reviewed for further improvement. The initiatives and results are also discussed in the IQAC Meeting where new methods are suggested for further improvement.

An academic audit is conducted at the end of each semester to review the results and the report is submitted to Principal for further action. The PEO's, PO's and CO's are assessed based on the results obtained and the same is presented in the Program Assessment Cell for discussion, based on which the areas to be improved are noted and appropriate methods are suggested by the members.

### **Improvements Observed in the following areas**

- Increased academic performance
- Students' participation in internships, industrial project, in-plant training
- Placement rates have been improved
- Students' participation in national and international competition
- The students have identified their strength and weakness.
- Able to build Self Confidence

### **2.2.5 How does the institution identify and respond to the learning needs of advanced learners?**

#### **Identification of advanced Learners:**

The advanced learners are identified by:

- Good performers in Internal tests and end semester examinations
- Attitude and interaction in the class room
- Participation in the department and institutional level activities
- Participation and bringing accolades to the institution
- Students' flair for publications, presentations, innovations and creativity.

College identifies the needs of advanced learners through the regular interaction with students in tutor-ward and class committee meetings. During HODs meeting, necessary amendments to fulfill the needs of advanced learners for imparting quality education.

#### **Major initiations for advanced learners:**

- The course teacher identifies the requirements of the advanced topics and gives lectures on the topics.
- The advanced learners are encouraged to take part in symposia, workshops and seminars to gain knowledge in the advanced topics.
- The advanced learners are encouraged to take innovative projects and mini-projects. They are also encouraged to take up innovative projects by providing Seed Money.
- Special guest lectures, seminars by resource persons from industry and research organizations are arranged periodically to fulfill the learning needs on the emerging areas. During the academic year 2015 – 16, 26 such events were conducted.
- The college library provides 152 printed journals, 1499 e-journals and 663 e-books, through which the students can gain knowledge on the advanced topics. The faculty members teach content beyond the syllabus, after the completion of each



concept or technology.

- Advanced learners are encouraged to appear for competitive Examinations such as UPSC, TNPSC, GATE, CAT, TOEFL, GRE, IELTS, BRB, RRB, PSU etc. and special coaching are given by the tutors/ advisors.
- Information on Higher Studies with Scholarship/ Internship opportunities are given to the advanced learners through special seminars.
- Advanced learners are encouraged to send the project proposal to various funding agencies such as TNSCST, ICTACT etc.
- Advanced learners are encouraged to take research projects along with the faculty members and to present papers at seminars and conferences.
- Advanced learners are encouraged for University Rank/ Distinction.
- University rank holders and class toppers are honored during graduation ceremony
- Advanced learners are encouraged to view webinars from IEEE, NIT, IIT, ACM etc.
- Special courses are offered as per the request.
- Assigned with challenging projects, internship opportunities and live projects.
- Advanced learners are encouraged to take leadership roles in academic and co-curricular activities
- AOD Club plays a vital role in improving the creativity, leadership skills, communication skills and team work of advanced learners.
- Motivated to register for NPTEL Courses and other MOOC to enhance their knowledge in different areas
- Academic toppers' scholarships are provided for each semester amounting to 50% of their fees.
- Additional book borrowing facility for advanced learners.

#### **Privilege of CBCS for advanced learners:**

The CBCS offers the following privileges to advanced learners,

- Advanced learner can opt for Interdisciplinary courses through Open Electives offered by various departments.
- Advanced learner can add on courses in addition to the courses in the curriculum as per the guidelines.
- One credit courses and online courses can be taken up by the student. If three such courses are taken up by the student, they are at liberty to drop one 3-credit professional elective course.
- Fast track provision is made available where more elective subjects are introduced in the curriculum, which offers scope for inclusion of more core subjects.

- Students with excellent academic record can opt to complete the theory courses by seventh semester and carry on full-time internship during the eight semester.
- The CBCS offers courses pertaining to Humanities Sciences, Basic Sciences, Engineering Sciences, Professional Core, Professional Elective and Open Elective.
- The CBCS offers Employability Enhancement Courses (EEC) which improve the employability skills of students.

### **Grooming for Best Out-Going (BOG) award**

Each department ensures that their students are well prepared to contest for BOG award. The department takes the following initiatives to support their students:

- Encourage students to maintain high academic grades.
- Encourage to publish research papers in conferences/ journals
- Give innovative projects which may lead to product development or patent
- Involve them in research and consultation work along with faculty members
- Facilitate them to obtain national/ international awards
- Encourage them to participate in national/ international design contests
- Motivate them to attend extracurricular activities like RRC, YRC, NCC, Sports etc.

These initiatives help the students to excel in curricular, co-curricular and extra-curricular activities.

### **Act on a Dream (AOD)**

The AOD club is started in the year 2014, which is the largest student body which houses twenty nine clubs. AOD is a platform for every single budding engineer of SNSCT. Open Saturday Concept is designed and implemented, where the club members overcome the obstacles of their dreams on a daily basis. AOD emphasizes on both technical and non-technical excellence.

The Act on Dream club gives these fast learners an opportunity to be Secretaries and Joint Secretaries of these various club. It gives them a chance of becoming leaders and also to improvise their area of interest to reach heights of perfection. They develop the skills of critical thinking, leadership and team work and also the inter and intra personal skills, effective communication skills which makes them reach the paramount. The AOD ultimately help the fast learners reach the goal of scholars on a cause and to be more precise it trains them to be future leaders.

### **2.2.6 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?**

The policies framed by the Government for differently-abled students are strictly adhered during the admission process (Single window admission system conducted by the affiliating University). Special attention is given to their needs during the course of study.

The needs of differently-abled students are taken care of by the following means:

- Ramps and lifts are provided for easy mobility

- Wheel chairs are available in the campus
- Differently-abled students can use their tailored vehicles within the campus
- Ambulance facility is available
- Well-laid roads within the campus for comfortable movement
- Assistance is provided for accessing the library and cafeteria facilities
- Dispensary is easily accessible for immediate medical assistance.
- Allotment of class room and examination hall in the ground floor.
- Personal attention by faculty members.

## **2.3 TEACHING-LEARNING PROCESS**

### **2.3.1 How does the College plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.)**

#### **a. Academic Calendar**

An academic calendar is prepared prior to the beginning of every academic year and is issued to the students. The academic calendar contains reopening date, last day of class room instructions, schedule of internal test, holidays, Events planned etc.

#### **b. Timetable**

The timetable is prepared before the commencement of each semester. The timetable incorporates courses, Laboratory classes, tutorial hour, library hour, seminar hour, sports and Career Development Programme hour. Further details like names of class advisor, tutor, course teacher, lab in-charge and assisting faculty, seminar in-charge and tutorial assist are reflected in the timetable.

#### **c. Lesson Plan**

Each faculty member prepares a lesson plan at the beginning of the semester. The lesson plan consist of following components

- Topic to be covered in a predefined time
- Teaching aids
- Text/ Reference books
- Content beyond the syllabus

The lesson plan prepared by the faculty member is duly verified by the HOD/ Dean of the department and forwarded to the Principal for final approval. Continuous monitoring is done by the department academic coordinator, HOD/ Dean and IQAC coordinator to ensure that classes are handled as per the Lesson plan prepared by the faculty. Surprise visits are carried by the Principal, Director and Quality Assurance Cell to monitor the same.

#### **d. Evaluation Methods**

After becoming autonomous, the college has flexibility in introducing varied evaluation methods like online tests, seminars, MCQs etc. These methods are planned well in advance and communicated to the students. The performance of students is measured by the Internal Assessment Examinations. Each Faculty maintains course file which contains

logbook, lesson plan, course material, students name list, time table, test marks, IA question papers with answer key and its sample answer sheet, question bank etc. Internal Auditing is done to verify the evaluation of answer books and faculty log book by Academic Audit Committees which are constituted on an adhoc basis once in a semester.

The students are assessed on a continuous basis by conducting two/ three tests per semester (IAEs) and the answer scripts are evaluated within 3 days after the examinations. Unit wise performance evaluation tests are also conducted. Question banks are available in the department server at the beginning of the semester. The answer papers are returned to the students and an opportunity is given to the students to discuss the evaluation with the teacher. The attendance at the end of every month is communicated to the students through letter/ SMS. Research based assignments and assignments based on Apply, Analyze, Evaluate or Create (HOTS) levels of bloom taxonomy are given and evaluated.

### **2.3.2 Does the College provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?**

Yes. Each faculty member provides course outline and course schedules to the students through department server prior to the commencement of the academic session. Following information are conveyed to the students

- Syllabus along with the prescribed text books, references, web resources and course outcome
- Detailed course schedules including mode of delivery

### **Effectiveness of the Course Delivery Process**

The effectiveness of the process is monitored by the Head of the department periodically. Academic coordinator of the department ensures that the courses are handled as per the plan. Teaching coordinator will facilitate the faculty members in teaching-learning process by arranging faculty development programme.

Class committee meetings are conducted to monitor the progress of the scheduled course and effectiveness of the delivery from the students. Student feedback is also obtained for each course to assess the effectiveness of the course delivery.

Academic audit is conducted once in a semester by internal auditors and once in a year by external auditors. The auditing includes quality of lesson plan, course file which includes course materials, internal assessment question papers, analysis of internal assessment and end semester results, mapping of CO with PO, attendance, materials and question bank maintained in e-server, preparation of laboratory manual, research publications and student participation. Academic audit is also conducted in CoE office to ensure the fairness of procedures followed.

### **2.3.3 What are the courses, which predominantly follow the lecture method? Apart from classroom interactions, what are the other methods of learning experiences provided to students?**

Student centric learning methodologies are adopted for effective teaching learning process. All the theory courses predominantly follow the lecture method. However the college does not stick to the conventional teaching methods and additional teaching pedagogies are

followed for the effectiveness of teaching-learning process as shown below:

- ICT aided lectures
- Web portal for teaching material 24×7 accessibility to students
- Flipped classroom
- Video case study
- Field trips/ jigsaw method
- Video lectures from NPTEL
- Puzzle based critical thinking
- demonstration/ working models for better understanding of concepts
- Proactive student leadership group
- Bridge courses for slow learners and special training for advanced learners
- Case study, role play, charts, think-pair-share, Multiple Choice Questions, Analogy etc.
- Brain storming sessions, group discussions
- Activity based learning, Project and Problem based learning.
- Industrial visit, Industrial expos, Industrial exhibition etc.
- In-plant training
- Internship
- Technical exhibition
- Technical seminar
- Project based learning
- Experiential learning
- Web based learning/ Webinars
- Research based learning
- Computer assist learning

#### **Outcomes of learning methodologies**

- The field visits give the students an opportunity to gain practical knowledge about the working of an industry and make the understanding of complex concepts easy.
- The ICTs based classroom teaching make the concepts interesting.
- Mini/ major projects help students to apply the theoretical concepts in practice.
- Seminars give the students an opportunity to update their technical knowledge and also improve their communication skills by ways of interacting with others.
- Case study improves the critical thinking of the students
- Webinar brings the world best seminar on web

- Internship gives the opportunity to students to work on a real time project in the company environment. This enables him to understand the gap between industry and academia.
- In-plant training and industrial visit gives the industrial exposure

#### **2.3.4 How is ‘learning’ made more student-centric? Give a list of participatory learning activities adopted by the faculty that contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.**

The college has established a Centre for Learning and Teaching (CLT) ([www.snsct.in](http://www.snsct.in)) with the vision to enhance the students learning experience in the college. The centre motivates the faculty to:

- Excel in teaching and learning process through various teaching methodologies.
- Implement various teaching pedagogies such as quiz, case study, puzzles, group discussion, model demonstrations, role play, brain storming session etc.
- Implement activity based learning and project based learning to actively engage the students in learning process.
- Promote critical thinking and make student globally competitive.

Following resources and practices ensure student centric learning and independent learning:

#### **ICT aided learning**

Class rooms are equipped with LCD Projection Systems and Laptop connectivity etc. These facilities enhance lecture delivery and effective communication. In all departments, faculty rooms are equipped with desktop computers and all necessary resources such as Wi-Fi connectivity throughout the campus.

#### **Interactive learning**

The faculty uses chalk and board and audio visual aids in their teaching process. Students are also encouraged to actively interact during the lecture hours.

#### **Project-based learning**

Students are encouraged to do a mini project every semester guided by faculty members. Final year students should do a project for a duration of one year with the help of faculty member or/and Industry/ Research personnel. Final year UG and PG students are encouraged to take up Industry-based/ real time projects.

#### **Academicians and Industrial Experts**

Eminent personalities from leading educational institutions and industries are invited to enrich the students with the latest technology. Interaction with industry giants provides an opportunity for the students to understand the requirements of the industry and update their skill set accordingly.

Following practices enable Life-long learning and knowledge management:

- **Tutorial**

One hour per week is allotted for analytical subjects. Additionally two staff members are allocated to help the students to solve the complex problems. This helps in improving problem solving capability of students. Peer group learning is also encouraged in the tutorial.

- **Field trip**

Field trips are arranged for Engineering Students to enhance the practical knowledge at least once in a year.

- **Class Seminars**

The first two hours on Saturdays is allotted for seminar, wherein individual or group of students deliver seminars on recent topics in the field. This improves the interaction among the team and communication skills.

- **Peer coaching**

Depending on the academic performance, the students are divided into groups of 3-4 students. Each group has a peer leader, who helps the member to complete the assigned task. The groups are given with tasks such as chart works, case study etc.

- **Think-pair-share**

This is regularly practiced in the class rooms. The faculty gives an issue to the students, who form pairs and think about the issue. After a brief time, the faculty asks one of the student members to share their views.

- **Project based learning: mini project/ major project/ model development**

In order to make the learning more effective, mini project competitions are conducted every semester. This improves the practical skills of the student and makes them apply their theoretical knowledge into practice. The students are instructed to create Models and demonstrate to other students in the class.

- **Organizing technical events: seminars, conference, symposium, workshop, quiz etc.**

Organizing events benefits the students by helping them to improve their leadership qualities, working in groups.

- **Research and innovation club**

A separate club to share innovative ideas of students called Innovation Club is formed. The main objective of the club is to motivate the students to come up with innovative ideas and projects and share them with other students.

## **Support Services**

The college offers a lot of support services to faculty members for making the learning student-centric.

- The college provides a well-stocked library which houses latest reference books, journals and e-books (Digital Library) to provide comprehensive and latest information to the students.

- Seminars and industrial visits are organized to bridge the gap between industry and academia
- Training and Placement Cell of the institute conducts personality development classes for the students.
- Wi-Fi technology is provided to the faculty members and students in the campus for their skill development.
- The faculty members use blooms taxonomy in teaching-learning process to imbibe the critical thinking skill among students.

### **2.3.5 What is the College policy on inviting experts/ people of eminence to provide lectures/ seminars for students?**

The college policy is to identify and invite eminent experts from industry and academia for delivering special lectures and seminars on latest state of the art. The invitees for seminars and special lectures include Eminent Academicians from premier institutions such as NITs, IITs, Emeritus Professors, industrial experts and alumni from relevant field of expertise.

The college has professional society chapters such as IEEE, ISTE, CSI, IE, SAE and association under each department. State and national level International seminars and workshops are conducted under the department association banner. National and International conferences are conducted in the campus where eminent resource persons of national and international repute have been invited to share their experience and technology to students and faculty members. During the last 4 years 28 International experts and 602 National experts have been invited.

### **2.3.6 What are the latest technologies and facilities used by the faculty for effective teaching? Ex: Virtual laboratories, e-learning, open educational resources, mobile education, etc.**

Teaching-learning is made more interesting and effective by the use of illustrations, power point presentations, virtual laboratories, e-learning, open educational resources etc., apart from conventional teaching as detailed below:

- Faculty members use computer for course material preparation/ presentation.
- The campus is enabled with 24×7 Wi-Fi connectivity which enables mobile learning.
- Language Lab is furnished with 60 systems with Globerena software which helps the faculty members to enhance the students' communication skills.
- The faculty members utilize the National Programme of Technology Enhanced Learning (NPTEL), MIT courseware and Mission10X resource materials.
- The use of modern multimedia teaching aid other than black board such as OHP, LCD projectors as teaching aids.
- Smart class rooms are utilized for effective teaching where MOOCS and webinars materials are used by the faculty members for effective teaching.
- Free open source simulator such as NS2/ NS3, MultiSim, are used to demonstrate core technical concepts



- Cloud environment (Google drive) is used to interact with students and to share course materials and other learning materials.
- Students are encouraged to participate in webcasts and webinars.
- The college is equipped with modernized central library having 54255 volumes of books in all disciplines of Engineering, Technology and Management. There are books related to moral sciences and general knowledge. The central library provides access to on-line resources like e-books and journals. The faculty members through “DELNET” access the resources, books and various journals of different disciplines for effective update and teaching to the students in their field of study. Each department maintains a separate department library which houses books for easy reference by faculty and students.
- An exclusive internet laboratory is made available for the access of the students and faculty members even on holidays.
- The college has many virtual laboratories like Virtual Instrumentation Lab, Pspice, Orcad, Etap, SPSS Lab etc., which are used by the faculty members for delivering concepts and add on courses which help the students to have experiential and project based learning.

**2.3.7 Is there a provision for the services of counsellors/ mentors/ advisors for each class or group of students for academic, personal and psycho-socio guidance? If yes, give details of the process and the number of students who have benefitted.**

The College has a provision for the services of counsellors/ mentors/ advisors for each class or group of students for academic, personal and psycho-socio guidance. This enable the students to express/ share their academic and personal difficulties with the faculty member.

**Advisor and Tutors**

The college follows tutor-ward system for counseling, mentoring and to improve the academic performance of the students. Each class has a class advisor who also acts as a tutor for a set of students. Each tutor is allotted with 15 to 25 students to provide academic, personal and psycho-social support and guidance. The tutor maintains all particulars of students in a progress card (Green card - UG/ Blue card-PG) and the counseling, if any, is recorded. Office hour is maintained by each faculty during which the faculty stays after college hours for the sake of counseling the students which helps the faculty to have individual attention for the needy students. The class advisor/ tutor is constantly in touch with the parents/ guardians and updates them the progress of their wards.

**Class Committee Meetings**

Class committee comprises of a chairperson (who does not handle any course for that class), subject handling faculty members and a group of selected students', that is, boy and girl representative each from hostel and day-scholars, slow and advanced learners. Class committee meetings are convened atleast twice in a semester to address issues related to academic/ non-academic matters.

## **Professional Counselors**

Professional counseling is given by the college counselor to the needy students in addition to counseling provided by heads and tutors on a regular basis. Apart from this experts from the industry are invited to mentor and guide the students. They address psychological and sociological issues. The confidentiality of the counseling session is maintained.

## **HOD/ Principal**

The students absent to the college for long duration and those indulging in disciplinary activities are counseled by the HOD and Principal. Regular communication to parents on students performance in academics, attendance and other activities is made by the Tutor/HOD/Principal.

After counseling, behavioral and academic improvements have been visible in the students.

### **2.3.8 Are there any innovative teaching approaches/methods/ practices adopted/put to use by the faculty during the last four years? If yes, did they improve the learning? What methods were used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?**

Yes. Faculty members use innovative teaching approach/ methods/ practices during their teaching process for knowledge translation. These are prepared well in advance through the lesson planning process.

The institution follows the Outcome Based Education. As a first step each department frame their Program Educational Objectives, Program Outcomes and Program Specific Outcomes through a Program Assessment Cell, where the HoD, Faculty members, Academic Peers, Industrial experts, Alumni are the stakeholders. The PEOs, POs and PSOs are disseminated to the students through appropriate means.

Secondly for each course five course outcomes are framed and delivery is done accordingly with the help of innovative teaching methodologies. The outcomes are assessed directly and indirectly at the end of the semester. The results are presented in the Program Assessment Cell and analyzed to take corrective measures.

### **Innovative teaching approaches and methods adopted by the faculty are:**

- Web portal for teaching material 24×7 accessibility to students
- Flipped classroom
- Video case study
- Field trips/ jigsaw method
- Video lectures from NPTEL
- Puzzle based critical thinking
- demonstration/ working models for better understanding of concepts
- Proactive student leadership group

- Bridge courses for slow learners and special training for advanced learners
- Case study, role play, charts, think-pair-share, Multiple Choice Questions, Analogy etc.
- Brain storming sessions, group discussions
- Activity based learning, Project and Problem based learning.

#### **State of the art infrastructure**

- ICT enabled class rooms, OHPs, LCDs; videos etc. are used for teaching purposes.
- Computers are used for teaching purposes and internet facility (100 Mbps) is available to students and faculty.
- Online materials like e-books, e-journals and projects
- Well-furnished library with latest editions for material preparation
- Enriched laboratories for mini projects and demonstrations
- Well-structured lesson plans are prepared/ revised for all theory and practical courses regularly, scrutinized by HODs and made available in the website for students' access.

#### **Method of Evaluation to know the Impact of Innovative Learning Practices**

- Continuous assessment and end semester examination
- Feedback from students, alumni and employer
- Performance at National and International competition
- Students awards at National level

#### **Impact of Innovative Learning Practice**

- Students are exposed to modern teaching methods
- Better understanding of the concepts
- Enhanced knowledge transfer.
- Teachers are collaborating with students to publish papers in Journals and present papers in Seminars and Conferences.
- Students participation in various national and international level design contest
- Quality of project done during their final year
- It helps to assess and improve the teaching-learning process from formative to summative period.

#### **Faculty due recognition for innovation in teaching**

- Faculty members are duly recognized and due weightage is given in the self-appraisal.
- Certificate and appreciations are given to faculty for implementing innovative teaching practices and achieving good results in end semester examinations.

### 2.3.9 How does the College create a culture of instilling and nurturing creativity and scientific temper among the learners?

The college nurtures creativity, innovation, critical thinking, analytical thinking and scientific temper through the following means:

#### Evaluate and Create (HOTS)

- Tutorial classes are conducted for analytical subjects and assignments are given to students to help improve their critical thinking.
- Project and problem based learning are encouraged to bring out the moral ideas.
- Innovative teaching methodologies are adopted by teaching community in the college by using OHPs, LCD projectors, smart classrooms and Wi-Fi
- Puzzle-based learning is aimed at getting students to think about solving the unstructured problems. The pedagogical goal is to increase students' analytical awareness and general problem-solving skills by employing puzzles, which are educational, engaging, and thought provoking.
- Science Exhibition is conducted for first year every year, which show cases the talents of young engineers. On an average 170 number of students take part in project displays.
- Industrial exposure is given to students by ways of industrial visits and In-plant trainings.
- State level student symposium instills the scientific temper to conduct different events like paper presentation, quiz, debugging, etc.
- Internet is made available even on holidays to help the students to nurture innovation and creativity.
- Mini-Projects/Project exhibitions are conducted regularly every year.
- Students are awarded with incentives and rewards.
- Students are encouraged to take part in the various intramural and extramural events such as:
  - Symposia
  - Conferences and Seminars
  - Projects under Tamil Nadu Government Science and Technology
  - Design competition

The following clubs are actively involved in inculcating and imparting skills to nurture creativity:

- |                        |                |                        |
|------------------------|----------------|------------------------|
| • Photoshop            | • GATE         | • Programming Language |
| • Soft Skills          | • IES/ TANCET  | • CAD/ CAM             |
| • Communication Skills | • MATLAB       | • Graphics/ Multimedia |
| • Web Designing        | • Robotic Club | • App development      |

The initiative results in students presenting and participating in project contests, presenting and publishing scientific papers in national and international conferences, approaching funding agencies for funds. The initiatives have also created awareness on patent filing and property rights.

**2.3.10 Does the College consider student projects a mandatory part of the learning programme? If so, for how many programmes is it made mandatory?**

- **Number of projects executed within the College**
- **Names of external institutions associated with the College for student project work**
- **Role of the faculty in facilitating such projects**

Yes.

The final year student project is mandatory for all the UG and PG programmes. All the UG and PG students carry out phase-I and Phase-II projects in the pre-final and final semester of the programme respectively. Besides, mini projects are encouraged by individual course faculty members.

| <b>Academic Year</b> | <b>Number of in-house Projects</b> | <b>Number of Projects with Industry Projects/ other Institutions</b> | <b>Total No of Projects</b> |
|----------------------|------------------------------------|----------------------------------------------------------------------|-----------------------------|
| <b>UG Programmes</b> |                                    |                                                                      |                             |
| 2012-13              | 147                                | 7                                                                    | 154                         |
| 2013-14              | 175                                | 2                                                                    | 177                         |
| 2014-15              | 150                                | 65                                                                   | 215                         |
| 2015-16              | 175                                | 78                                                                   | 253                         |
| <b>PG Programmes</b> |                                    |                                                                      |                             |
| 2012-13              | 126                                | 116                                                                  | 242                         |
| 2013-14              | 130                                | 166                                                                  | 296                         |
| 2014-15              | 121                                | 188                                                                  | 309                         |
| 2015-16              | 102                                | 111                                                                  | 213                         |

During the academic year 2014-15, 5 projects were carried out at Structural Engineering Research Center, Chennai by M.E. Structural Engineering students. This gave them an opportunity to work with state-of-the-art facilities.

**Role of Faculty Members in Facilitating Projects**

- Help the students to analyze the feasibility and selection of the project

- Offer their expertise, ideas and assistance in enabling students to complete the project
- Responsible for evaluating the projects during periodic reviews by review committee
- Internal expert member for industrial project
- Guiding the students to publish papers in conferences/ Journals
- Help the students during documentation

### **Impact of project on students' learning**

Project/ mini project help the students to:

- Understand the concept clearly
- Solve the societal problems using engineering and technology
- Verify the theoretical concepts
- Improve group coordination
- Critical thinking and complex problem solving

#### **2.3.11 What efforts are made to facilitate the faculty in learning/ handling computer-aided teaching/ learning materials? What are the facilities available in the College for such efforts?**

All the faculty members have proficiency in handling computers and peripherals. To ensure effective usage, the college has a system to facilitate the faculty in learning/ handling computer aided teaching/ learning materials as follows:

- Faculty training programmes are conducted whenever new systems are introduced
- Faculty training on online courses/ materials
- Faculty members are provided with PCs with internet facility
- College has Internet connectivity of 100 Mbps
- Wi-Fi connectivity 24 X 7
- Intranet for data sharing within department and across the college
- The details of computing facility available in the campus are:
  - Computers available in the campus: 1457
  - Wi-Fi capacity: 100 Mbps
  - Servers: 29
  - Printer:156
  - Scanner:34

#### **2.3.12 Does the College have a mechanism for evaluation of teachers by the students/ alumni? If yes, how is the evaluation used in achieving qualitative improvement in the teaching-learning process?**

Yes. The feedback on faculty members is collected from students for overall growth through a structured questionnaire online/ offline system.

Regular class committee meetings are conducted. Class committee consists of a chair person who is a senior faculty but not handling any subject for that class, faculties of that class and student representatives. The main aim of this is to improve the teaching learning process.

All the feedbacks are collected by class committee chair person and suitable recommendations are given by the HoD to take remedial actions when necessary. The report is submitted to the Principal for his perusal and approval.

Based on the feedback analysis report, the HOD/ Principal will appreciate the areas where the teacher is good. The area in which a teacher needs improvement is informed and proper counseling is given to improve his/her performance. Training and orientation programmes are conducted to hone the skills and improve the efficiency of teaching learning process. Every semester all faculty members undergo individualist session with Heads/ Principal.

**Apart from class committee meetings, regular feedback is collected from Students and analyzed on the following aspects:**

- Course knowledge and delivery effectiveness
- Use of teaching aids
- Punctuality and class discipline
- Integrity (honesty, impartiality, fairness)
- Material supplied to students
- Doubt clarification and interaction with students
- Course outcome
- Use of teaching and learning methods and technologies etc.

Alumni survey is also obtained from the alumni when they come for alumni meets. Oral feedback have been received from the alumni during their visit is used for improving the teaching-learning process. Questions pertaining to teaching-learning practices adopted by the faculty and the methods of teaching preferred are posed to the alumni. These inputs are used to improve the teaching learning process.

**2.3.13 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes elaborate on the challenges encountered and the institutional approaches to overcome these.**

The institution has not faced such a situation till date as all the faculty members complete the syllabus in time. Being an autonomous institution, the schedules are well planned and all the faculty members adhere to it strictly.

**Measures for Curriculum completion within time:**

The College has built-in mechanisms to ensure Curriculum completion within the planned time frame. Some of these measures include:

- A well-prepared Academic Calendar.

- Instructional System Design with Lesson plans is prepared well before the commencement of the semester by each teacher to avoid any ambiguity.
- Constant monitoring of delivery of lesson plan to ensure completion by the class committee chairperson and HoD.

### **Challenges and measures in Curriculum completion:**

There are some unavoidable circumstances like:

- Course teachers may go on long leave due to medical reasons. In this case, alternate faculty member is assigned for the course.
- Shortage of working days due to rare occurrence of unduly environmental factors or unforeseen situations if any. In these cases, holidays are compensated for and this enables completing the syllabus as per the requirements.

### **2.3.14 How are library resources used to augment the teaching-learning process?**

The main aim of the central library is to provide information services and access to the print and e-resources to support the students and faculty members.

The college has well established library and information centre with the following facilities:

- 54255 volumes of books in 14899 titles.
- Each faculty member can avail 7 books and retain for one semester, after which also renewal is permitted.
- Each student can avail 6 books and retain for 15 days, after which renewal is permitted.
- Advanced learners can avail one extra book
- Subscription to International e-journals like DELNET/ IEEE and National Journals.
- Subscription to technical magazines.
- 663 e-books available
- Working Hours for faculty members and students is from 8.30 AM to 6.30 PM on all working days and 9.00 AM to 5.00 PM on second and fourth saturday. The extended working hours enables the students to prepare assignments, presentations, reprographic facilities etc.
- Campus wide National Digital Library (NDL) facility
- One hour per week is allotted in Time Table for the students to utilize the library facilities. One faculty is allotted to accompany the students. The faculty gives a topic to be searched by the students. At the end of the hour, the student comes up with materials on that topic and concludes his/ her findings.

The facilities in the library aid the faculty in keeping them up-to-date with the latest technologies, which improves the teaching-learning process. The access to National and International Journals helps them in carrying research. The facilities help the students in



developing mini projects, presenting papers in conferences and publishing them in journals.

### **2.3.15 How does the institution continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance.**

The college continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance.

#### **Monitoring and Evaluation System:**

Heads of the department, Principal and Director regularly monitor and review the class work maintained by the faculty members. Any discrepancy/ difficulty noted during classroom monitoring is reported to respective authorities/ faculty member for rectification. During classroom monitoring, each faculty member is monitored for:

- Quality of teaching
- Teaching pedagogy used including innovative methods
- Classroom environments and the effect on student performance

Head of the departments verify the following randomly at least once in a week:

- Class log book which reflects the syllabus completed
- Effectiveness of laboratory/ Tutorial classes
- Lab manuals
- All experiments are conducted by the faculty concerned is verified at the beginning of the semester
- Lecture notes and other teaching aids

In addition to the above, academic audit is done every semester internally and once in a year by external experts.

Class Committee reviews the completion of syllabi, laboratory experiments, the need for extra training classes, add-on courses, difficulties in subjects, Faculty knowledge and deliver problem, infrastructure needs etc. and submits a report to the Principal through HOD. The follow up actions are initiated, if needed. The college collects feedback from students on each faculty member once in a semester during course completion.

Every semester, the college conducts two/ three Internal Assessment Examinations (IAEs) as per the Anna University norms. In addition to the above, additional tests and extra coaching classes are conducted, if needed. The performance of the students in each subject and the ability of the teacher concerned in producing better results are evaluated. Corrective actions are initiated if it is found that a particular faculty is producing poor results for a class.

#### **Report:**

- Report by CLT on classroom teaching.
- Report by HoD on classroom teaching.
- Students' feedback

Confidential feedback is taken from students by the teaching co-ordinator and analysis reported is submitted to the Head of the Department for corrective measures.

- Class committee report

Students' feedback on course delivery and general grievances are collected in the class committee meeting by the chairperson. The suitable remedial recommended during the class committee will be approved by the Head of the Department for the further action.

#### **Role of IQAC:**

The role of IQAC in the teaching-learning process is:

- Preparation of Lesson plan & Class notes
- Inspect the classes randomly to verify the delivery of contents
- Audit the course files and logbook at the end of semester
- Ensuring implementation of innovative teaching methodologies, Usage of ICT, Models, Videos in classes
- Effective conduction of Tutorial & Laboratory classes
- Monthly and Quarterly IQAC meeting for follow up & suggestions
- External audit at the end of every academic year

## **2.4 TEACHER QUALITY**

### **2.4.1 What is the faculty strength of the College? How many positions are filled against the sanctioned strength? How many of them are from outside the state?**

The total faculty strength of the college during 2016-17 is 330.

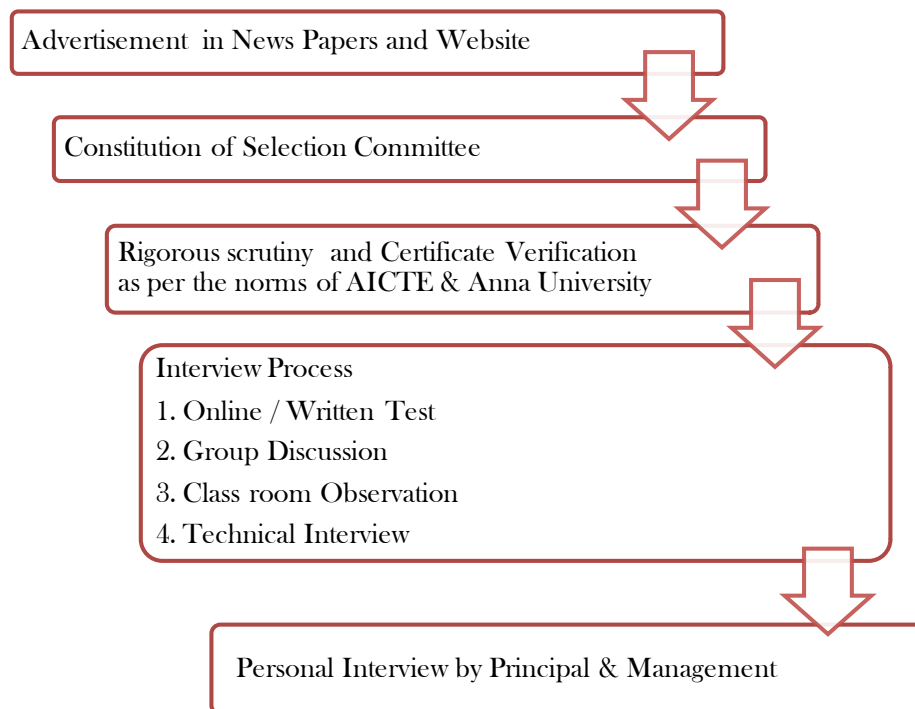
| <b>Academic Year</b> | <b>Professor</b> | <b>Associate Professor</b> | <b>Assistant Professor</b> | <b>Total</b> | <b>Outside State</b> |
|----------------------|------------------|----------------------------|----------------------------|--------------|----------------------|
| 2012 - 13            | 17               | 22                         | 195                        | 234          | 2                    |
| 2013 - 14            | 17               | 22                         | 195                        | 234          | 2                    |
| 2014 - 15            | 18               | 18                         | 224                        | 260          | 2                    |
| 2015 – 16            | 18               | 18                         | 250                        | 286          | 2                    |
| 2016 - 17            | 24               | 27                         | 279                        | 330          | 4                    |

### **2.4.2 How are the members of the faculty selected?**

The college follows a well-structured process for selecting the faculty members.

- Departments submit the faculty requirement based on the expertise required and also norms of the AICTE/ Anna University to the Principal
- Principal consolidates the requirement of the departments and submit the same to the management for approval

- Advertisement is given in Newspapers and college website
- A selection committee formed comprises of Director, Principal, HOD, Senior Professor and Subject experts from other reputed colleges. The Selection committee duly constituted for the purpose as per the norms of AICTE/ Anna University will finally approve the selection and college issue the appointment order to the selected candidate.
- The skill sets expected from the candidates are academic, teaching, communication, Problem solving, human relation, organizational and research.



#### 2.4.3 Furnish details of the faculty.

| Highest Qualification | Professor |        | Associate Professor |        | Assistant Professor |        | Total |
|-----------------------|-----------|--------|---------------------|--------|---------------------|--------|-------|
|                       | Male      | Female | Male                | Female | Male                | Female |       |
| Permanent Teachers    |           |        |                     |        |                     |        |       |
| D.Sc./ D.Litt.        | -         | -      | -                   | -      | -                   | -      | 330   |
| Ph. D                 | 18        | 4      | 6                   | 4      | 8                   | 9      |       |
| M. Phil               | 1         | -      | -                   | 1      | 12                  | 32     |       |
| PG                    | 1         | -      | 11                  | 5      | 112                 | 106    |       |
| Temporary Teachers    |           |        |                     |        |                     |        |       |

|                    |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|
| Ph. D              | - | - | - | - | - | - | - |
| M. Phil            | - | - | - | - | - | - |   |
| PG                 | - | - | - | - | - | - |   |
| Part-Time Teachers |   |   |   |   |   |   |   |
| Ph. D              | - | - | - | - | - | - | - |
| M. Phil            | - | - | - | - | - | - |   |
| PG                 | - | - | - | - | - | - |   |

**2.4.4 What percentage of the teachers have completed UGC-CSIR-NET, UGC-NET and SLET exams? In that what percentage of teachers are with PG as highest qualification? –**

In science and humanities stream, one faculty member has NET/ SLET qualification. In that 100% are with PG qualifications. It is not mandatory for faculty members in engineering streams.

**2.4.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.**

Yes. As college is committed for quality knowledge delivery to the students, quality faculty members are recruited. Hence, college encourages diversity in its faculty recruitment.

| Department | Number of Faculty in the department | % of faculty who are product of the same college |      | % of faculty from other college within the state |      | % of faculty from other state |      | % of faculty from abroad |   |
|------------|-------------------------------------|--------------------------------------------------|------|--------------------------------------------------|------|-------------------------------|------|--------------------------|---|
|            |                                     | Nos                                              | %    | Nos                                              | %    | Nos                           | %    | Nos                      | % |
| AERO       | 12                                  | -                                                | -    | 12                                               | 100  | -                             | -    | -                        | - |
| AUTO       | 12                                  | -                                                | -    | 12                                               | 100  | -                             | -    | -                        | - |
| CIVIL      | 16                                  | 1                                                | 6.3  | 15                                               | 93.8 | -                             | -    | -                        | - |
| CSE        | 43                                  | 16                                               | 37.2 | 27                                               | 42.6 | -                             | -    | -                        | - |
| ECE        | 43                                  | 19                                               | 44.2 | 24                                               | 42.6 | -                             | -    | -                        | - |
| EEE        | 16                                  | 3                                                | 18.8 | 13                                               | 81.3 | -                             | -    | -                        | - |
| EIE        | 12                                  | 1                                                | 8.3  | 9                                                | 75   | 2                             | 16.7 | -                        | - |
| IT         | 17                                  | 6                                                | 35.3 | 11                                               | 64.7 | -                             | -    | -                        | - |

|      |    |   |      |    |      |   |     |   |     |
|------|----|---|------|----|------|---|-----|---|-----|
| MECH | 39 | 3 | 7.7  | 33 | 84.6 | 2 | 1.1 | 1 | 2.6 |
| MCT  | 12 | - | -    | 12 | 100  | - | -   | - | -   |
| MBA  | 15 | 5 | 33.3 | 10 | 66.7 | - | -   | - | -   |
| MCA  | 12 | 3 | 25   | 9  | 75   | - | -   | - | -   |
| S&H  | 81 | - | -    | 81 | 100  | - | -   | - | -   |

**2.4.6 Does the College have the required number of qualified and competent teachers to handle all the courses for all departments?**

**If not, how do you cope with the requirements? How many faculty members were appointed during the last four years.**

Yes. The college has the required number of qualified and competent faculty members to handle all the courses in all departments.

In addition to the internally available faculty members, renowned guest speakers from various industries and other reputed institutions are regularly invited to deliver special lectures to bridge the gap between the industrial expectation and academics.

**2.4.7 How many visiting Professors are on the rolls of the College?**

At present the college does not have visiting Professors on rolls of the college, eminent Professors of national and international repute are invited from the leading institutions to handle advanced topics and seminars.

**2.4.8 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, nomination to national/ international conferences / Seminars, in-service training, organizing national/international conferences etc.)**

SNSCT believes that the faculty members are the prime motive forces of learning and imparting the knowledge and skill. The following systems are in practice to support and recharge teachers:

- Seed money proposals worth Rs.6,81,500 is allotted to the faculty members and students who proposed to carry out innovative research
- Faculty members are encouraged to pursue higher studies and 88 faculty members are currently pursuing PhD.
- The college encourages faculty exchange programme for research skill development. During the academic year 2015-16, 4 faculty members took part in Faculty exchange programmes with Kyungpook National University, South Korea.
- Due weightage is given for university results in a way to recognise the dedicated efforts of faculty members.
- On an average of 75% of faculty members participated in FDPs/ STTPs/ Seminars/ Workshops/ Conferences both National and International level held in India and abroad

- College provides funds to each department for procuring equipment/ instruments/ software, to enrich research facilities so as to foster innovative ideas among students and faculty members.
- Faculty members are encouraged to be a resource person for national and international conference, seminars, workshop, and guest lecture.
- Faculty members are encouraged to take up industrial training to stay updated with the latest developments in their respective fields.
- College encourages faculty members by giving cash award for research publications in peer reviewed Journals.
- Additional increments to the faculty members who completes Ph.D.
- FDPs are organized during vacation for all faculty members.
- Training for Outcome Based Education, NBA and usage of Blooms Taxonomy is given to faculty members.
- One Day Orientation program is conducted for department HODs by the Technical Director, SNS Group of Institutions during December 2016.

**2.4.9 Give the number of faculty who received awards/ recognitions for excellence in teaching at the state, national and international level during the last four years.**

| S.No. | Name of the Faculty member with designation                     | Details of award/ recognition for excellence in teaching                                            |
|-------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 1     | Dr. S. Rajalakshmi,<br>Correspondent, SNS Group of Institutions | Gold Star Award for Excellence in Higher Education, 2015 by Global Achievers Foundation, New Delhi  |
| 2     | Dr. S. N. Subbramanian,<br>Chairman, SNS Group of Institutions  | Outstanding contribution for National Development, 2014 by All India Achiever Foundation, New Delhi |
|       |                                                                 | Mother Teresa Sadbhavana Award, 2014 by Global Achiever Foundation, New Delhi                       |
|       |                                                                 | Edutreneur Award, 2014 & 2015 by Governor of Tamil Nadu                                             |
| 3     | Dr.S.Karthik<br>Dean, Department of CSE                         | Best Faculty Award - Senior,2012-13<br>Nehru Group of Institutions                                  |
|       |                                                                 | Best Academic Dean,<br>ASDF Global Awards 2013-14, Techno Forum Group, Pondicherry                  |
|       |                                                                 | Best Academic Researcher                                                                            |

|   |                     |                                                                                                                 |
|---|---------------------|-----------------------------------------------------------------------------------------------------------------|
|   |                     | ASDF Global Awards 2014-15, Thailand Chapter                                                                    |
|   |                     | Best Teacher Award 2014-15, Global Vision Infocon Services Pvt., Ltd., Coimbatore                               |
|   |                     | Biographical Record in Who's Who in the World Thirty Third edition 2015-16, Marquis Who's Who Publication Board |
| 4 | Dr. P. Vivekanandan | Distinguished HOD award 2017, CSI Tech Next India 2017.                                                         |

**2.4.10 Provide the number of faculty who have undergone staff development programmes during the last four years.**

| Academic staff development program                                        | Number of faculty members |         |         |         |
|---------------------------------------------------------------------------|---------------------------|---------|---------|---------|
|                                                                           | 2012-13                   | 2013-14 | 2014-15 | 2015-16 |
| Refresher courses                                                         | Not Applicable            |         |         |         |
| HRD programme                                                             | 0                         | 0       | 0       | 0       |
| Orientation program                                                       | 26                        | 52      | 76      | 58      |
| Staff training conducted by the college                                   | 55                        | 30      | 49      | 83      |
| Staff training conducted by University/ other colleges                    | 41                        | 85      | 98      | 78      |
| Summer/ winter schools, workshops etc.                                    | 255                       | 158     | 178     | 192     |
| Any other (please specify) National/ International Conferences, SDP, STTP | 123                       | 157     | 214     | 154     |

**2.4.11 What percentage of the faculty have**

- \* been invited as resource persons in Workshops/ Seminars/ Conferences organized by external professional agencies
- \* participated in external Workshops/ Seminars/ Conferences recognized by national/ international professional bodies
- \* presented papers in Workshops/ Seminars/ Conferences conducted or recognized by professional agencies
- \* Teaching experience in other universities/ national institutions and others
- \* Industrial engagement

**\* International experience in teaching**

| Activities                                                                                                          | Percentage of the faculty |         |         |         |
|---------------------------------------------------------------------------------------------------------------------|---------------------------|---------|---------|---------|
|                                                                                                                     | 2012-13                   | 2013-14 | 2014-15 | 2015-16 |
|                                                                                                                     | %                         | %       | %       | %       |
| Invited as resource persons in Workshops/ Seminars/ Conferences organized by external professional agencies         | 14                        | 24      | 10      | 10      |
| Participated in external Workshops/ Seminars/ Conferences recognized by national/ international professional bodies | 43                        | 43      | 48      | 53      |
| Presented papers in Workshops/ Seminars / Conferences conducted or recognized by professional agencies              | 24                        | 27      | 34      | 34      |
| Teaching experience in other universities/ national institutions and others                                         | 3                         | 3       | 2       | 2       |
| Industrial engagement                                                                                               | 5                         | 11      | 11      | 11      |
| International experience in teaching                                                                                | -                         | -       | -       | -       |

**2.4.12 How often does the College organize academic development programmes for its faculty, leading to enrichment of teaching-learning process?**

- \* Curricular Development**
- \* Teaching-learning methods**
- \* Examination reforms**
- \* Content/ knowledge management**
- \* Any other (please specify)**

The IQAC, CLT and departments organize academic development programmes for the faculty members. Experts from reputed colleges and industries are invited during academic development programmes, to train the faculty members on outcome based education system. Training on the open source software/ tools are also arranged to enrich the teaching-learning process. The programmes are organized on regular basis with proper intervals.

**Curricular Development**

- Programmes for Curriculum development are conducted once in a year.
- Senior faculty members visited leading University/College for framing the regulation of CBCS.



- Controller of Examination has arranged a session on design of curriculum and syllabus development.
- Training and awareness programme on outcome based education are organized
- Board of Studies is constituted with University nominees, Alumni, Academic and Industrial experts, are providing valuable inputs to curriculum and syllabus design
- Guest lectures are arranged with the leading academicians from premier Colleges and experts from leading industries towards knowledge enrichment in curriculum design and development

### **Teaching-learning methods**

- Faculty members attended programmes organized in association with National Institute of Technical Teachers' Training and Research (NITTTR) for teaching pedagogies in technical education
- Faculty Development Programmes (FDP) are organised every semester
- Induction programmes are conducted every year for newly joined faculty members
- Training on outcome based education (OBE) is provided to all faculty members
- Blooms Taxonomy is in practice for teaching delivery.
- Developing Higher Order Thinking Skills[HOTS] of students.

### **Examination reforms**

Faculty members are educated once in a year in the revised evaluation methods listed below:

- Autonomous examination system
- Fast track system
- Online Quiz examination
- Supplementary examination system in 8<sup>th</sup> Semester
- Blooms Taxonomy in question paper setting.
- Weightage for internal & external evaluation system
- Choice based credit system
  - Introduction of one credit course
  - Open elective
  - Self-study courses
  - Online courses

### **Content/ knowledge management**

- Faculty members are encouraged to register for NPTEL/ MOOC courses
- Faculty members are encouraged to participate in FDPs, STTPs, Workshops, Guest Lectures pertaining to contemporary areas

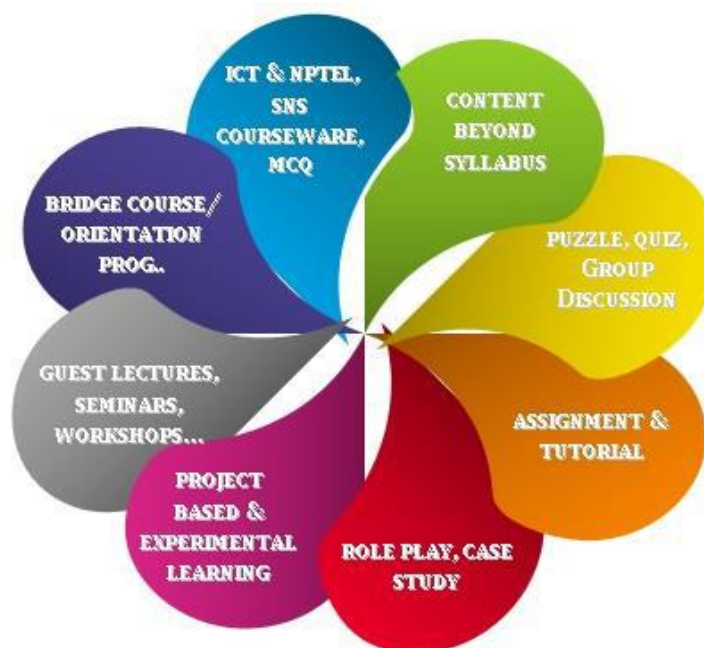
- Faculty members are encouraged to participate in national/ international conferences and Seminars
- Each faculty member is trained to maintain course file
- Each faculty member is trained on framing PEOs, POs and COs and its mapping.
- Free internet connection for knowledge management is provided
- Library is updated with latest edition of books for preparation
- Online journals are made available in the department for easy access of faculty members

**Any other (please specify)**

- Faculty members are encouraged to take-up industrial training during vacation
- Faculty members are encouraged to work on funded research project
- Faculty members are encouraged to take up consultancy work

**2.4.13 What are the teaching innovations made during the last five years? How are innovations rewarded?**

The college has been encouraging teaching innovations right from the time of being granted the autonomous status. Some of these have been enhanced during the last 5 years.



**Rewarding Innovations**

The innovations are given appropriate weightage during self-appraisal. The innovations are also appreciated during faculty meetings. Certificates are issued to faculty members who bring lots of innovation in teaching-learning process. Best Faculty Award is proposed in senior (> 5 years) and junior (< 5 years) categories.

#### 2.4.14 Does the College have a mechanism to encourage

- \* **Mobility of faculty between institutions for teaching?**
- \* **Faculty exchange programmes with national and international bodies?**

**If yes, how have these schemes helped in enriching quality of the faculty?**

#### **Mobility of faculty between institutions for teaching**

Yes. College encourages faculty member interaction with other colleges in following ways:

- Faculty members are encouraged to deliver expert lectures in other colleges,
- Faculty members are permitted to participate in Workshops/ Seminars/ FDP/ STTP organised by other colleges,
- Faculty members are encouraged to present papers in national and international conference organized by other colleges,
- Eminent experts from other colleges are invited for knowledge sharing
- Faculty members are permitted to act as doctoral committee member for research scholars of other colleges and other college academicians also act as an expert member of doctoral committee.

#### **Faculty exchange programmes with national and international bodies**

- Mr. J. Alfred Daniel, Research Assistant, Connected Computing Media Processing Laboratory from Kyungpook National University, South Korea stayed at SNS College of Technology as a part of exchange program during 17.01.2015 to 04.04.2015.

Details of faculty who are part of exchange programme from SNS College of Technology with Kyungpook National University are given below:

| Year                                                           | Name of the faculty with designation | Period  |         | National/ International | Outcomes- Delivered Lectures                                                                                                  |
|----------------------------------------------------------------|--------------------------------------|---------|---------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                                                                |                                      | From    | To      |                         |                                                                                                                               |
| Faculty exchange programmes with Kyungpook National University |                                      |         |         |                         |                                                                                                                               |
| 15-16                                                          | Mr. S.Kannan, AP/ CSE                | 11.6.15 | 25.6.15 | Inter- national         | Delivered a lecture about “Performance analysis and comparison of multiple wireless ad-hoc network routing protocol in MANET” |
|                                                                | Mr. A.Christopher Paul, AP/ CSE      |         |         |                         | Delivered a lecture about “Reputation of nodes balancing the trade-off between query delay and data availability in MANET”    |
|                                                                | Mr. S.Vinoth                         |         |         |                         | Delivered a lecture about                                                                                                     |

|       |                                      |            |            |               |                                                                                                                                                                                     |
|-------|--------------------------------------|------------|------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | Kumar, AP/<br>CSE                    |            |            |               | “A survey method of re-ranking techniques for improved web based image searches”                                                                                                    |
|       | Mr. C.Chandru<br>Vignesh, AP/<br>CSE |            |            |               | Delivered a lecture about “Enhanced unauthorized access protocol and alert protocol in MANET”                                                                                       |
| 16-17 | Mr. J. Alfred<br>Daniel, AP/<br>CSE  | 29.02.2017 | 23.03.2017 | International | <ul style="list-style-type: none"> <li>• Attended CCMP 2<sup>nd</sup> Workshop.</li> <li>• Delivered a lecture on “Big Data Analytics with respect to Vehicular Network”</li> </ul> |
|       | Dr. S. Karthik,<br>Dean/ CSE         | 14.03.2017 | 23.03.2017 | International | <ul style="list-style-type: none"> <li>• Chief guest in CCMP 2<sup>nd</sup> Workshop</li> <li>• Delivered lecture on “Effective Research Paper Writing”</li> </ul>                  |

### **Enrichment in quality of the faculty member**

- Better exposure in teaching pedagogy and latest technology
- Knowledge network
- Adaptation to inter-disciplinary research
- Exposure to interact with diversified student community

## **2.5 EVALUATION PROCESS AND REFORMS**

### **2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation process that are operative?**

The College ensures that the evaluation processes are known to all the stakeholders by the following measures

- Regulation book and Academic calendar are distributed to the students, which has the details of Evaluation Process.
- Students and newly recruited faculty members are exposed to College Regulations and evaluation procedures through orientation programs.
- All the circulars regarding Internal Assessment Examinations (IAEs) and End semester examinations (ES) are displayed in the Department Notice Boards and read in their respective classes.
- Answer scripts of IAEs are maintained and available for verification to students after valuation on request.
- Regulation books are also available in the library for student access.

- Evaluation process is thoroughly discussed in the HODs meeting with Principal and as well as in Class Committee meeting with students.
- Evaluation Process is communicated to the parents during the admission on the induction day.
- After each IAE, the corrected answer scripts are returned to the students for transparency, clarification in the evaluation required by the concerned students is given by the faculty members and can be corrected. Feedback on performance in IAE is given to the individual student.

**2.5.2 What are the major evaluation reforms initiated by the College and to what extent have they been implemented in the College? Cite a few examples which have positively impacted the evaluation management system?**

- Continuous assessment is for 50 marks. This is carried out by conducting 2 internal exams and followed by Quiz. Previous practices of allocating Marks for attendance and learning process are discontinued.
- End Semester Question papers Scrutiny by subject experts are implemented.
- Central valuation for End Semester Examinations.
- Setting the Internal Test Question Papers according to the Bloom's Taxonomy and verifying the same by respective course coordinator.
- Fast Track system have been introduced to facilitate the final year students (who have CGPA of  $\geq 8.5$ ) to complete all the courses by VII semester so as to undergo project work in industry during the eighth semester.
- Students can also opt for one credit industry oriented courses for a minimum of 15 hours duration, which will be offered by experts from industry on specialized topics apart from the prescribed courses of study of the programme.
- The students can opt for self study course under the CBCS regulations. The students shall study on their own; no formal lectures need to be delivered.
- Students may be permitted to register online courses.
- Career Development Programme is included in Curriculum in order to enhance the Analytical, Presentation & Communication skill of the students.
- Dummy number system is introduced to ensure the fairness in evaluation
- Preparation of Test Performance Report for analyzing test results and immediate corrective actions.
- Supplementary end semester examinations are conducted after declaration of revaluation results for the final year students.
- Publishing results within 3-4 Weeks from the last date of examination.
- Statement of grades within a month after publishing revaluation results.

- Assessment by different modes like by Tests, Assignment, Group Discussion, Multiple Choice Questions, Online Test, Mini Project, Practicals, Seminar, Webinar etc is introduced to ensure different cognitive levels of learning.

### **2.5.3 What measures have been taken by the institution for continuous evaluation of students and ensuring their progress and improved performance?**

- The students performance in Internal Tests is monitored regularly.
- To cater the needs of lateral entry students, special classes especially for the courses like Mathematics & Analytical courses are conducted.
- The advanced learners are encouraged to participate in project/design competitions and workshops, conferences and enroll in on-line courses.
- The Slow Learners are identified and special remedial classes are conducted.
- Regular assignments are given to improve the academic performance beyond the syllabi.
- Result Analysis is prepared and immediate corrective measures are taken to improve the performance of the students.
- The students performance is intimated to their parents and appropriate counseling is given for their betterment. The absentees are intimated to the parents through SMS daily.
- Courses, which required critical thinking, analysis & design, are taken into account during tutorial hours specially scheduled in the regular time table.
- The students individual data is maintained at the department level(UG & PG) by the concerned class advisors.
- The credentials like performance in examinations, seminar, workshops, technical events and extracurricular activities are recorded by the class advisors and acknowledged by HoD/Dean/Principal.
- Each student, on admission shall be assigned to a Tutor, who shall advice and counsel the student about the details of the academic programme and the choice of courses considering the student's academic background and career objectives.
- Evaluation at the end of every class to assess the understanding of the students.
- The performance of students in internal tests and project works are discussed in the department meeting and also discussed in class committee meetings. Based on the discussion suitable steps are taken.
- To gain exposure towards industries and work place, internship & frequent industry visit are arranged.
- Case studies focusing real world problems are discussed in the class rooms to improve problem solving skills.
- Technical Seminars are conducted to update recent trends in industries.
- Seasoned guest lecture are arranged for the students from academia/industry for the student exposure & Real life application.

- Result analysis review meetings are conducted at Institution level for every department immediately after the publication of results to assess the performance of the students and faculty members.

**2.5.4 What percentage of marks is earmarked for continuous internal assessment?  
Indicate the mechanism strategized to ensure rigor of the internal assessment process?**

The criteria for arriving at the Internal Assessment marks

1. 25 for UG for R2013 of Academic Year 2013-14.  
40 for PG for R2013 of Academic Year 2013-14.
2. 50 for UG & PG for R2013 of Academic Year 2014-15.
3. 50 for UG & PG for R2015.
4. 50 for UG & PG for R2016.

**Regulation 2013,2015 & 2016**

**THEORY COURSES**

| Description      | Marks for UG programme<br>Academic Year 2013<br>(R2013) | Marks for UG programme<br>Academic Year 2014<br>(R2013) | Marks for UG programme<br>R2015 | Marks for UG programme<br>(R2016) |
|------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------|-----------------------------------|
| Internal Test    | 2x10 = 20 marks                                         | 3x10 = 30 marks                                         | 3x10 = 30 marks                 | 2x20 = 40 marks                   |
| Online Quiz      | -                                                       | 10                                                      | 10                              | 10                                |
| Learning Process | -                                                       | 5                                                       | 5                               | -                                 |
| Attendance       | 5                                                       | 5                                                       | 5                               | -                                 |
| <b>Total</b>     | <b>25</b>                                               | <b>50</b>                                               | <b>50</b>                       | <b>50</b>                         |

| Description   | Marks for PG programme<br>Academic Year<br>(R2013) | Marks for PG programme<br>Academic Year<br>(R2013) | Marks for PG programme<br>R2015 | Marks for PG programme<br>(R2016) |
|---------------|----------------------------------------------------|----------------------------------------------------|---------------------------------|-----------------------------------|
| Internal Test | Test I – 05 Marks                                  | 2x10 = 20 marks                                    | 2x10 = 20 marks                 | 2x20 = 40 marks                   |
|               | Test II – 10 Marks                                 |                                                    |                                 |                                   |
|               | Test III – 15 Marks                                |                                                    |                                 |                                   |

|                  |           |           |           |           |
|------------------|-----------|-----------|-----------|-----------|
| Online Quiz      | -         | 10        | 10        | 10        |
| Learning Process | 5         | 15        | 15        | -         |
| Attendance       | 5         | 5         | 5         | -         |
| <b>Total</b>     | <b>40</b> | <b>50</b> | <b>50</b> | <b>50</b> |

### **PRACTICAL COURSES**

| <b>Description</b>     | <b>Marks for UG programme<br/>Academic Year 2013<br/>(R2013)</b> | <b>Marks for UG programme<br/>Academic Year 2014<br/>(R2013)</b> | <b>Marks for UG programme<br/>R2015</b> | <b>Marks for UG programme<br/>(R2016)</b> |
|------------------------|------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| Observation and Record | 10                                                               | 25                                                               | 25                                      | 25                                        |
| Model Test Mark        | 10                                                               | 20                                                               | 20                                      | 25                                        |
| Attendance             | 5                                                                | 5                                                                | 5                                       | -                                         |
| <b>Total</b>           | <b>25</b>                                                        | <b>50</b>                                                        | <b>50</b>                               | <b>50</b>                                 |

| <b>Description</b>     | <b>Marks for PG programme<br/>Academic Year 2013<br/>(R2013)</b> | <b>Marks for PG programme<br/>Academic Year 2014<br/>(R2013)</b> | <b>Marks for PG programme<br/>R2015</b> | <b>Marks for PG programme<br/>(R2016)</b> |
|------------------------|------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| Observation and Record | 10                                                               | 15                                                               | 15                                      | 25                                        |
| Model Test Mark        | 15                                                               | 15                                                               | 15                                      | 25                                        |
| Viva                   | 10                                                               | 15                                                               | 15                                      |                                           |
| Attendance             | 5                                                                | 5                                                                | 5                                       | -                                         |
| <b>Total</b>           | <b>40</b>                                                        | <b>50</b>                                                        | <b>50</b>                               | <b>50</b>                                 |



## PROJECT WORK

| UG COURSES                       | Internal Assessment |           |            |           |      | End semester Examinations |     |                |     |       |
|----------------------------------|---------------------|-----------|------------|-----------|------|---------------------------|-----|----------------|-----|-------|
|                                  | Review I            | Review II | Review III | Review IV | Attd | Thesis Submission (40)    |     | Viva-Voce (60) |     |       |
|                                  |                     |           |            |           |      | Int                       | Ext | Int            | Ext | Guide |
| R2013<br>(Academic Year 2013-14) | 5                   | 5         | 5          | 5         | 5    | 20                        | 20  | 20             | 20  | 20    |
| R2013<br>(Academic Year 2013-14) | 10                  | 10        | 10         | 15        | 5    | 20                        | 20  | 20             | 20  | 20    |
| R2015                            | 10                  | 10        | 10         | 15        | 5    | 20                        | 20  | 20             | 20  | 20    |
| R2016                            | 15                  | 15        | 20         | -         | -    | 20                        | 20  | 20             | 20  | 20    |

| PG COURSES                       | Internal Assessment |           |            |           |              |      | End semester Examinations |     |                |     |       |
|----------------------------------|---------------------|-----------|------------|-----------|--------------|------|---------------------------|-----|----------------|-----|-------|
|                                  | Review I            | Review II | Review III | Review IV | Project Book | Attd | Thesis Submission (40)    |     | Viva-Voce (60) |     |       |
|                                  |                     |           |            |           |              |      | Int                       | Ext | Int            | Ext | Guide |
| R2013<br>(Academic Year 2013-14) | 5                   | 5         | 5          | 10        | 10           | 5    | 20                        | 20  | 20             | 20  | 20    |
| R2013<br>(Academic Year 2013-14) | 10                  | 10        | 10         | 15        | -            | 5    | 20                        | 20  | 20             | 20  | 20    |
| R2015                            | 10                  | 10        | 10         | 15        | -            | 5    | 20                        | 20  | 20             | 20  | 20    |
| R2016                            | 15                  | 15        | 20         | -         | -            | -    | 20                        | 20  | 20             | 20  | 20    |

## Attendance

| Percentage of attendance( Marks) | Marks |
|----------------------------------|-------|
| 76% to 80%                       | 1     |
| 81% to 85%                       | 2     |
| 86% to 90%                       | 3     |
| 91% to 95%                       | 4     |
| 96% to 100%                      | 5     |

### **The mechanism strategized to ensure rigor of the internal assessment process,**

- Setting the Internal Test Question Papers according to the Bloom's Taxonomy and verifying the same by respective course coordinators in order to ensure the quality of the question paper.
- The performance of students in internal tests is discussed in the Dean/ HoDs meeting, department meeting and also in class committee meetings. Based on the discussions suitable steps are taken.
- The students performance is intimated to their parents by SMS and appropriate counseling is given for their betterment.
- The corrected Internal Assessment Examination answer paper is distributed within three days after the last exam. If there is any deviation in the evaluation, the respective faculty members are approached and the marks can be corrected.
- Management Internal Assessment Examination analysis meeting is conducted after every internal exam and as per the suggestions the corrective actions will be taken by the faculty members.

### **2.5.5 Does the College adhere to the declared examination schedules? If not, what measures have been taken to address the delay?**

Yes, the College strictly adheres to the declared examination schedule.

### **2.5.6 What is the average time taken by the College for declaration of Examination results? Indicate the mode /media adopted by the College for the publication of examination results e.g., website, SMS, email, etc.,**

- Internal Assessment Examination results are declared within 3 days after the last exam.
- Internal Assessment Examination answer sheets are distributed to the students to know their results and improve their performance.
- Twenty working days is the average time taken by the college for declaration of End semester Examination results from the date of completion of last examination.

- The Provisional Result is mailed to the Deans/ HoDs, to publish the same in the Notice-Board. Also the Provisional Result is published in the college website and the students can know their grades by entering their Register Number and the Date of Birth.
- Internal Assessment Examination & End Semester results are sent to parents through SMS.

**2.5.7 Does the college have an integrated examination platform for the following process?**

- **Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.**
- **Examination process – Examination material management, logistics.**
- **Post examination process – attendance capture, OMR based exam result, auto processing, generic result processing and certification.**

Yes. The College has integrated software for the following processes

**Pre - Examination Process**

- Student List Generation
- Generate Exam Application forms,
- Course wise Attendance
- Internal Marks
- Hall Tickets
- Time Table Generation

**Examination Process**

- Exam Attendance form
- Exam Attendance upload
- Generate Dummy Numbers
- Question Paper Packets distribution through the Chief Superintendent & Anna University Representative
- Preparing lists of Invigilators
- Monitor the exams for malpractices and for other discrepancies, if any,
- Answer scripts collection
- Sorting and placing inside the envelopes with proper seal etc.,
- Examination material management and Logistics.

**Post - Examination Process**

- Absentees list generation
- Appointment of examiners
- Valuation of Answer Scripts
- Collection of marks and entry

- Result processing
- Convening the Result passing board meeting
- Moderation Reports
- Declaration of Result
- Revaluation
- Declaration of Revaluation Result
- Arrangement for Challenge of Evaluation

#### **2.5.8 Has the college introduced any reforms in its Ph.D evaluation process?**

- The College is an approved research centre for pursuing Ph.D studies under the affiliation of Anna University, Chennai.
- Reforms as prescribed by the Affiliating University are implemented in the evaluation of Ph.D candidates from time-to-time.

#### **2.5.9 What efforts are made by the college to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved process and functioning of the examination division/section?**

The following are the significant efforts which have improved the process and functioning of the Examination section:

- The controller of examinations is responsible for conduct of all Autonomous examinations, and it is his duty to arrange for preparation, scheduling, conducting of Semester examinations and all other incidental matters connected with examinations. The controller of examinations in the execution of his office reports to the Principal periodically in the performance of his/her duties. Preparing and updating the panel of examiners.
- Question paper scrutiny.
- Preparing Examination schedule for end semester examinations (Theory, laboratory courses and Project Work)
- Preparing attendance sheet, Invigilator schedule & Seating arrangements prior to the exams and Centralized Examination System.
- Online examination applications are generated to pay end semester examination fee and online generation of hall ticket.
- A separate examinations office is allotted with adequate number of supporting staff and faculty members to conduct the examinations.
- Arranging for the Central valuation.
- Constituting the Result passing Board and Publication of Results.
- Restricted access to COE office ensures the confidentiality in data storage and handling.
- Cloud Space facilities for data storage and safety with backup.

- A tie-up with software solutions to provide a more flexible, secure and customized manner to suit the requirements of the COE.
- An academic audit team with eminent professors from leading institutions is constituted to audit the entire process of examination and their findings/recommendations and this will be taken by COE for further improvements in the functioning of the examination and evaluation process.
- Examination Committee is constituted to ensure proper management of Examination Systems.

#### **2.5.10 What is the mechanism for redressal of grievances with reference to evaluation?**

The mechanism adopted by the institution to address the grievances with reference to the evaluation is: (for 2013-14, 2014-15, 2015-16 academic years)

##### **Internal Assessment Examination**

- The corrected Internal Assessment Examination answer paper is distributed within three days of the examination conducted. If there is any grievance in the evaluation, the respective faculty members are approached and the marks can be corrected.
- The college follows open Evaluation system wherein the students' performance is displayed on the notice board and also informed to the parents. All their grievances regarding evaluation are addressed by Dean/Head of the Departments.

##### **End Semester Examination**

- A candidate can apply for getting photo copy of the answer paper in a theory course within one week from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Dean / Head of Department.
- The Controller of Examination will arrange for the issue of the photo copy of the answer sheet to the candidate concerned through the Dean / Head of Department.
- A candidate can apply for revaluation of his/her semester examination answer paper in a theory course, within 2 weeks from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institution. A candidate can apply for revaluation of answer scripts for not exceeding 5 courses at a time. The Controller of Examination will arrange for the revaluation and the results will be intimated to the candidate concerned through the Dean/ Head of Department. Revaluation is not permitted for practical courses, seminars, practical training, CDP and for project work.
- After publication of revaluation results a student can also make an appeal to the Controller of Examinations for the review of answer scripts after paying the prescribed fee. Controller of Examinations will issue the photo copy of answer script to the student. The course expert from the department will evaluate the script and Dean / Head of Department will recommend. A Committee consisting of 2 experts appointed by Controller of Examinations will review and declare the result. If the result is in favour of the student, the fee collected will be refunded to the student. The final result will be announced by Controller of Examinations.

- The students' grievances, if any, regarding End semester examinations, are communicated to Controller of Examinations, through Principal and the proper corrective actions are initiated without any delay.

## **2.6 STUDENT PERFORMANCE AND LEARNING OUTCOMES**

### **2.6.1 Does the College have clearly stated learning outcomes for its programmes? If yes, give details on how the students and staff are made aware of these?**

Yes. Since the college follows outcome based education, the learning outcomes are clearly defined for all programmes.

- Programme Educational Objectives (PEOs) and Programme Outcomes (POs) are prepared for every programme and displayed at various places (classrooms, Laboratories and walls) in every department.
- The course outcomes (COs) for all courses are printed in the syllabus and regulations book.

Awareness regarding the learning outcomes is created as follows:

- The faculty members are made aware of learning outcomes through display boards, faculty meetings and training programmes.
- The faculty are provided with training on outcome based education and students are made aware of the learning outcomes during the beginning of each course by the respective course handling faculty.

### **2.6.2 How does the institution monitor and ensure the achievement of learning outcomes?**

Institution monitors and ensures the achievement of learning outcome through direct assessment method and indirect assessment method.

#### **Direct assessment method**

In direct assessment method, learning outcomes are monitored and evaluated through following means,

- Internal and end semester examination
- Assignments
- Online quiz
- Mini project
- Main project

#### **Indirect assessment method**

In indirect assessment method, learning outcomes are monitored and evaluated through following means,

- Group Discussions
- Seminars/ Case studies
- Role Plays
- Project-based, problem-based and activity-based learning

## **Ensure the achievement of learning outcomes**

The learning outcome is ensured by mapping the course outcome (COs) with programme outcomes (POs).

### **2.6.3 How does the institution collect and analyse data on student learning outcomes and use it for overcoming barriers of learning?**

#### **Course outcomes, results, placement,**

Direct and indirect means of collecting data related to student learning outcomes are adopted. The direct methods of data collection include the core academic process. Indirect method of collection includes feedback from the stakeholders and the student's participation in different activities during the course of study.

The tools used for analyzing the attainment of outcomes are:

- Assignments once per semester
- Online quiz twice per semester
- Examination results
- Exit survey once in a programme
- Alumni survey as and when needed
- Employer survey as and when needed

#### **Direct Assessment of PO attainment**

The Programme Outcome attainment analysis is done using MS EXCEL as detailed below:

- The admin enters the subject allotment details
- The faculty handling the Course enters the course outcomes, CO-PO mapping along with the assessment weightage for each and every CO.
- The faculty then enters the internal test questions with details of question number, CO number Cognitive level and maximum marks.
- In the next stage, faculty enters the marks scored by students in the internal tests against the question, which in turn is mapped into the performance of the students on different COs.
- The PO attainment is computed from the CO attained by the students and is average of the students score.

#### **3.1 3.1 Indirect Assessment of PO attainment (through feedback)**

The attainment of POs is also evaluated by obtaining feedback from various stakeholders. The feedback from the students directly assesses the attainment of POs. However for getting feedback from other stake holders well defined criteria are used in the feedback form. Hence it is required to map those criteria to the POs as per the following steps:

- The POs weightage (Mapping of criteria to POs) satisfied by each criteria of the Student, Faculty, Domain Focus Group, Alumni and Employer feedback forms are decided by HOD and a team of faculty members.

The feedback from the stakeholders is collected and the attainment of POs is calculated. The deviation between the expected and attained level will be taken into account while redefining the Pos.

### **Use of evaluation results towards improvement of the programme**

The results of the assessment of attainment of POs from various stakeholders are collected, analyzed and the deviations from the objectives (75%) are sent to the PO review committee for further review.

Gaps in achieving PO are filled by:

- Conducting Value Added Courses and Workshops.
- Organizing guest lectures by eminent industrial and academic experts.
- Conducting special coaching classes for weak students.

### **Plan to overcome the barriers of learning**

- **Alumni feedback** is collected to modify or apply changes in the existing teaching methodology to overcome the barriers of learning.
- The **feedback from Recruiters** is considered as a measure to fulfill their requirements, thereby to achieve the learning outcome efficiently and effectively.
- **Feedback from Management** is received during the MRM meeting and suggestions from Management are incorporated to strengthen the teaching-learning process.
- Based on feedback received from students, parents, recruiters and Management the following strategies are followed to overcome the barriers of learning.
- Students are divided into three categories as
  - **Slow learners** – Special classes, Tutorial classes are given periodically to solve university question papers.
  - **Medium learners** – Faculty advisors are assigned to counsel them to move to the next level.
  - **Advanced learners** – They are encouraged to participate and win prizes in competitions, mini projects and other co-curricular activities in addition to their academic learning.
- Periodical class committee meetings are conducted to identify the difficulties in learning and remedial measures are suggested.
- Meetings with HODs are conducted by Principal for effective implementation of academic schedule and the flaws & other issues of implementation will be taken for discussion to overcome the academic barriers.
- A judicial planning is done for conducting guest lectures, seminars, coaching classes and tutorial classes in the academic schedule by each department to transfer the knowledge constantly and consistently in order to achieve the learning outcome.
- Through the above said feedback mechanism, short comings and remedial measures are addressed and also taken to the Governing council for further planning.



**2.6.4 Give Programme-wise details of the pass percentage and completion rate of students.**

| S.No    | Programme | Department                           | Completion Rate |      |      |      |       |
|---------|-----------|--------------------------------------|-----------------|------|------|------|-------|
|         |           |                                      | 2012            | 2013 | 2014 | 2015 | 2016  |
| 1.      | B.E       | AERO                                 | NA              | 71.7 | 47.5 | 37.5 | 52.2  |
| 2.      |           | CIVIL                                | NA              | 76.6 | 70   | 64.2 | 66.6  |
| 3.      |           | CSE                                  | 85.3            | 86.6 | 80   | 83.6 | 72.3  |
| 4.      |           | EEE                                  | 87.5            | 73.8 | 81.8 | 58   | 70.6  |
| 5.      |           | ECE                                  | 87.6            | 81.5 | 81.3 | 55.2 | 72.6  |
| 6.      |           | EIE                                  | NA              | NA   | NA   | 92.3 | 83    |
| 7.      |           | MECH                                 | 93.9            | 80.6 | 76.4 | 79.4 | 74.4  |
| 8.      |           | MCT                                  | NA              | NA   | NA   | 88.6 | 82    |
| 9.      | B.Tech    | IT                                   | 81.8            | 81   | 73.1 | 86.5 | 94.2  |
| 10.     | M.E       | Computer Science and Engineering     | 100             | 100  | 100  | 100  | 100   |
| 11.     |           | Communication System                 | 100             | 100  | 94.1 | 100  | 100   |
| 12.     |           | Electronics & Communication          | NA              | NA   | NA   | 100  | NA    |
| 13.     |           | Power System                         | 100             | 94.1 | 82.4 | 94.1 | 100   |
| 14.     |           | Structural Engineering               | NA              | NA   | NA   | 88.2 | 100   |
| 15.     |           | Software Engineering                 | NA              | 88.9 | 94.4 | 100  | 100   |
| 16.     |           | Thermal Engineering                  | NA              | NA   | NA   | 100  | 100   |
| 17.     |           | VLSI Design                          | 100             | 100  | 88.9 | 100  | 100   |
| 18.     |           | Computer & Communication Engineering | 100             | 100  | 100  | NA   | NA    |
| 19.     | M.Tech    | Information Technology               | 100             | 100  | 100  | 100  | 100   |
| 20.     | MBA       | Master of Business Administration    | 85.95           | 57.4 | 80.3 | 92.2 | 94.3  |
| 21.     | MCA       | Mater of Computer Application        | 100             | 98.2 | 96.2 | 97   | 82    |
| Overall |           |                                      | 90.2            | 82.6 | 79.1 | 77   | 78.24 |

### Completion Rate

| <b>Passed out Batch</b> | <b>Registered Number of Students</b> | <b>No. of students completed 8<sup>th</sup> Semester (With/ Without Arrears)</b> | <b>Completion Rate (%)</b> | <b>No. of students dropout</b> | <b>Dropout %</b> |
|-------------------------|--------------------------------------|----------------------------------------------------------------------------------|----------------------------|--------------------------------|------------------|
| 2012-13                 | 649                                  | 613                                                                              | 94.45                      | 36                             | 5.54             |
| 2013-14                 | 681                                  | 656                                                                              | 96.32                      | 25                             | 3.67             |
| 2014-15                 | 803                                  | 773                                                                              | 96.26                      | 30                             | 3.73             |
| 2015-16                 | 817                                  | 780                                                                              | 95.47                      | 37                             | 4.52             |
| 2016-17                 | 972                                  | NA                                                                               | NA                         | 14                             | 1.44             |

***Criterion III***  
***Research, Consultancy***  
***and Extension***

## CRITERION III

### RESEARCH, CONSULTANCY AND EXTENSION

#### 3.1 PROMOTION OF RESEARCH

##### 3.1.1 Does the College have a research committee to monitor and address the issues of research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes. The College has a core Research & Development Committee to initiate and monitor the Research and Development activities.

**Chief Advisor** : Dr. S.N. Subbramanian, Chairman

**Advisor** : Dr. S. NalinVimal Kumar, Technical Director

**Director** : Dr. V. P. Arunachalam, Director

**Joint Director** : Dr. S. Chenthur Pandian, Principal

**Coordinator** : Dr. S. Karthik, Professor & Dean - CSE

**Members** : All HoDs/Deans

The following table highlights the recommendations of the R&D committee and its impact:

| S.No | Recommendation                                                                                                                                | Impact                                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | The faculty members who do not possess Ph.D degree are advised to register for research work.                                                 | 88 faculty members have registered and are pursuing their Ph.D.                                                                                                         |
| 2.   | Policy for monetary incentives to those who publish / present research papers at National / International journals, conferences and seminars. | 940 papers have been published in Journals and 938 papers have been presented in Conferences. An amount of Rs. 2,19,000 has been offered as incentive for publications. |
| 3.   | To analyze and examine the feasibility for undertaking research projects.                                                                     | 3 research projects are completed and 4 minor research projects sanctioned through various funding agencies till date.                                                  |
| 4.   | Faculty members and students are encouraged to send the funding proposals to various funding agencies / Industries / Research Institutes.     | Proposals are sent to various funding agencies and funds have been sanctioned. The sanctioned/received fund is Rs 53.23 Lakhs.                                          |
| 5.   | All Ph.D holders are motivated to obtain supervisor recognition from Anna University.                                                         | 21 faculty members have obtained Guideship as on Dec 2016.                                                                                                              |

|    |                                                                                                                                                                          |                                                                                                                                                                                                                |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. | Research and Innovation clubs are initiated to utilize the seed money scheme setup by the management to students and faculty members for developing innovative projects. | Faculty members and students are utilizing the seed money given by the management to develop innovative research projects. Seed Money sanctioned is Rs. 6,79,500 for 35 projects for the academic year 2016-17 |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.1.2 What is the policy of the College to promote research culture in the College?

The college policy to promote research is given below:

- The Management sanctions Rs. 30 Lakhs every year for research and development
- Recruiting more faculty members with Ph.D Qualification
- Research scholars can avail on-duty facilities(one-day per month) to undertake research work/meet their supervisor/visit research institutions/ industries to gather data and information relating to their area of research
- Providing infrastructure facilities like laboratories, library resources, Journals etc.,
- 50% of the registration fee is given for participating in research oriented programs
- Cash award and appreciation certificate are being issued for publishing papers in reputed National and International Journals
- Constituting research advisory committee
- Consultancy revenue sharing policy is in place
- Faculty members are motivated to register and pursue the Ph.D Program
- Conducting awareness programs for preparing research proposals, IPR, Patent, etc., by inviting research experts from industries/academia
- Granting financial assistance for students to develop/participate the innovative projects/products in International / National level competitions
- Provision of integrating project work in curriculum

### 3.1.3 List details of prioritized research areas and the areas of expertise available with the College.

| S. No | Study                                        | Various Research Areas/ domains                                  |
|-------|----------------------------------------------|------------------------------------------------------------------|
| 1     | Mechanical Sciences (AERO, AUTO, MECH & MCT) | Unmanned Aerial Vehicle (Aero elasticity)                        |
| 2     |                                              | Scramjet Engine (Propulsion)                                     |
| 3     |                                              | Fuel Cells                                                       |
| 4     |                                              | Engine Component Design                                          |
| 5     |                                              | Hybrid Vehicles                                                  |
| 6     |                                              | Alternate Fuels                                                  |
| 7     |                                              | Composite Materials                                              |
| 8     |                                              | Thermal (Condensation / Heat Exchanger / IC engines / Fuel cell) |
| 9     |                                              | Manufacturing ( Machining , optimization, Welding)               |
| 10    |                                              | Design( Composite materials, Tribology, Material behavior)       |
| 11    |                                              | Industrial Engineering and management( Production, Lean          |

|    |                                                  |                                                                               |
|----|--------------------------------------------------|-------------------------------------------------------------------------------|
|    |                                                  | manufacturing, six sigma)                                                     |
| 12 |                                                  | Renewable energy ( Solar Energy / Alternate energy sources )                  |
| 13 |                                                  | Robotics                                                                      |
| 14 |                                                  | Automation                                                                    |
| 15 |                                                  | Control systems                                                               |
| 16 | Civil Engineering                                | Bacterial Concrete                                                            |
| 17 |                                                  | Self-Compacting Concrete                                                      |
| 18 |                                                  | Applications of GIS                                                           |
| 19 |                                                  | High Performance Concrete                                                     |
| 20 |                                                  | Geo polymer Concrete                                                          |
| 21 |                                                  | Cold Form Steel Structure                                                     |
| 22 | Computer Sciences<br>(CSE, IT & MCA)             | Wireless Networks (Ad hoc/Sensor/ Vehicular Ad hoc )                          |
| 23 |                                                  | Computing (Cloud/Grid/Green)                                                  |
| 24 |                                                  | Big Data Analytics                                                            |
| 25 |                                                  | Data Mining                                                                   |
| 26 |                                                  | Software Engineering                                                          |
| 27 |                                                  | Image Processing                                                              |
| 28 |                                                  | Automata Theory                                                               |
| 29 |                                                  | Network Security                                                              |
| 30 | Electrical Sciences<br>(EEE, ECE & EIE)          | Wireless Communication                                                        |
| 31 |                                                  | Antenna Design                                                                |
| 32 |                                                  | VLSI Design                                                                   |
| 33 |                                                  | Digital Image Processing                                                      |
| 34 |                                                  | Embedded System                                                               |
| 35 |                                                  | Power Systems Operation and Control                                           |
| 36 |                                                  | Restructured Power System, Distributed Generation and Smart Grids             |
| 37 |                                                  | Power Electronics                                                             |
| 38 |                                                  | Electrical Machines and Electrical Drives                                     |
| 39 |                                                  | PLC / SCADA and Embedded Systems                                              |
| 40 |                                                  | Reactive Power, Harmonics and Power Quality                                   |
| 41 |                                                  | Flexible AC Transmission Systems, Electrical Machines, Power System Stability |
| 42 |                                                  | Intelligent Instrumentation                                                   |
| 43 |                                                  | Virtual Instrumentation                                                       |
| 44 |                                                  | Smart Grids, Control system Optimization, Process control                     |
| 45 |                                                  | Power Electronics and Power Quality                                           |
| 46 |                                                  | Computational Biology                                                         |
| 47 |                                                  | Medical Image and Signal Processing                                           |
| 48 |                                                  | Embedded Systems and allied applications                                      |
| 49 | Management Sciences                              | Entrepreneurship                                                              |
| 50 |                                                  | Finance                                                                       |
| 51 |                                                  | Human Resource                                                                |
| 52 |                                                  | Operation Management                                                          |
| 53 |                                                  | Marketing                                                                     |
| 54 | Science & Humanities<br>(PHY, CHEM, MATHS & ENG) | Thin Films                                                                    |
| 55 |                                                  | Solar Cells                                                                   |
| 56 |                                                  | Nano Materials                                                                |
| 57 |                                                  | Environmental Chemistry                                                       |
| 58 |                                                  | Natural Products                                                              |
| 59 |                                                  | Electro Chemistry                                                             |

|    |                                         |
|----|-----------------------------------------|
| 60 | Organic Chemistry                       |
| 61 | Phyto Chemistry                         |
| 62 | Topology/ Fuzzy Topology                |
| 63 | Integro Differential Equation           |
| 64 | Queuing theory/ Optimization Techniques |
| 65 | Fluid Dynamics                          |
| 66 | Corporate Communication                 |
| 67 | English Curriculum Development          |
| 68 | Indian Literature                       |
| 69 | Soft Skills                             |
| 70 | American drama                          |

### **3.1.4 What are the proactive mechanisms adopted by the College to facilitate smooth implementation of research schemes/ projects?**

#### ***\*Advancing funds for sanctioned projects***

The amount sanctioned for all funded projects are deposited in the savings bank account opened in the name of project and are operated by the Principal Investigator. The Principal Investigator has freedom to use the amount for the successful completion of the project. Further the College has also a policy to support the sanctioned project by providing the fund in advance.

#### ***\*Providing seed money***

Each department is given a maximum amount of Rs. 1,00,000/- for faculty members and another Rs. 1,00,000/- for students to start their innovative research works. The seed money can be used to purchase equipment, consumables, software's etc., for their work.

#### ***\*Autonomy to the Principal Investigator/coordinator for utilizing overhead charges***

The Principal Investigator is granted autonomy for utilizing the overhead charges. Facilities such as laboratory space, library, office equipment, computers, Internet etc., required for the smooth conduct of the research work are also provided by the college.

#### ***\*Timely release of grants***

As mentioned earlier, the Principal Investigator can utilize the sanctioned amount as and when required for the research work.

#### ***\*Timely auditing***

R&D Cell periodically audits the progress of ongoing project works through the Deans/HoDs of the respective departments.

#### ***\*Submission of utilization certificate to the funding authorities***

Proper utilization of funds under various heads of the projects will be certified by an auditor before being submitted to the funding authorities.

### **3.1.5 How is interdisciplinary research promoted?**

The college actively promotes interdisciplinary research by encouraging the students and faculty members to take up such projects.

The outcomes of such efforts for the last four years are:

|                                                                    |     |
|--------------------------------------------------------------------|-----|
| Number of interdisciplinary students research                      | 5   |
| Number of interdisciplinary faculty research                       | 19  |
| Number of interdisciplinary publications                           | 38  |
| Number of inter institute (inter disciplinary) research activities | 113 |
| Number of inter institute (inter disciplinary) publications        | 93  |

### **3.1.6 Enumerate the efforts of the College in attracting researchers of eminence to visit the campus and interact with teachers and students?**

The college has invited the researchers of eminence from India and abroad to visit and interact with faculty members and students for enhancing the R&D activities.

During the last 4 years, 74 experts from various reputed Institutions & Industries such as Dr.Vijayaraghavan Viswanathan, Scientist CERN-ARDENT, Dr.Chiang Yung – Chuan from Andes Technology, Dr.M.Pitchaimani Deputy Director, Space craft operations ISTRAC/ISRO, HAL, etc., have visited the campus.

Details of eminent experts visited the campus are enclosed in the **Annexure 3.1**

### **3.1.7 What percentage of faculty have utilized sabbatical leave for research activities? How has the provision contributed to the research quality and culture of the College?**

There is no provision for sabbatical leave as the college is self-financing. However on-duty is permitted for short durations to help the faculty to undertake research activities. Any numbers of on-duties are given to the students and faculty members to attend Co-curricular and Extra-curricular activities. This has facilitated the faculty and students to enhance their R&D initiatives. Many students have represented the college at Research Seminars and have won prizes for presentation. Recently Mr.Abishek, III CSE is invited to present in the student research competition conducted by Microsoft Corporation.

### **3.1.8 Provide details of national and international conferences organized by the College highlighting the names of eminent scientists/scholars who participated in these events.**

The College has organized 16 National Conferences and 2 International Conferences during the last 4 years.

- National Conference:**

| S.No | Dept | Date       | Title of the conference                         | Name of the eminent person participated                     | No. of papers presented |
|------|------|------------|-------------------------------------------------|-------------------------------------------------------------|-------------------------|
| 1    | CSE  | 05.10.2012 | Recent Trends in Advanced Computing             | Mr.V. Viswanathan, Senior Hr, WIPRO Technologies, Bangalore | 78                      |
| 2    | ECE  | 07.02.2013 | Innovations in Communication and Computing 2013 | Mr.S.Kumar Managing Director eNova Solutions Pvt.Ltd, USA.  | 46                      |



|    |       |            |                                                                  |                                                                                                                                                           |     |
|----|-------|------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 3  | IT    | 14.02.2013 | Network Intelligence and Computing systems (NCNICS13)            | Dr.S.Annadurai, Principal, Sri Krishna College of Engineering and Technology, Coimbatore                                                                  | 37  |
| 4  | MECH  | 04.03.2013 | Emerging Trends in Mechanical Engineering- NCETME 2013           | Dr.V.Arun Kumar, Formerly Scientist in NAL , Bangalore<br>Dr.Manjunatha Scientist, Head in Propulsion Division, NAL Bangalore                             | 60  |
| 5  | MCA   | 07.03.2013 | Advances in Computing, Analysis and Applications                 | S.N.Ravichandran, Managing Director, Nilgiris Chemical Stoneware Co. (P) Ltd, Coimbatore                                                                  | 32  |
| 6  | MBA   | 20.3.2013  | Emerging Trends in Management                                    | Dr.Samuel Joseph, Professor, Karunya University<br>Dr.Vijila Kennedy, Director, KCT Business School<br>Dr.P.R.Muthusamy, Principal, Dr.NGP Arts & Science | 63  |
| 7  | CIVIL | 10.04.2013 | Latest Advances in Civil Engineering for Sustainable Development | Dr.Moses Santha Kumar, Professor, NIT, Trichy                                                                                                             | 120 |
| 8  | CSE   | 07.10.2013 | Recent Trends in Advanced Computing                              | Mr. R. Haridoss, Chief Executive Officer, Online Consultancy Services, Chennai                                                                            | 69  |
| 9  | ECE   | 20.02.2014 | Innovations in Communication and Computing 2014                  | Dr.A.Balaji, Co-coordinator, TIFAC-CORE, Velammal Engineering College, Chennai                                                                            | 42  |
| 10 | MECH  | 07.03.2014 | Emerging Trends in Mechanical Engineering                        | Dr.A.P.Senthilkumar, Assistant Professor /Mech, PSG College of Technology, Coimbatore                                                                     | 54  |
| 11 | ECE   | 25.03.2015 | Innovations in Communication and Computing 2015                  | Er.K.Raghunandan, Joint General Manager, L & T Ltd, Coimbatore                                                                                            | 39  |
| 12 | CIVIL | 31.03.2015 | Latest Advances in Civil Engineering for Sustainable Development | Dr.P.D.Arumairaj, Associate Professor, GCT, Coimbatore                                                                                                    | 100 |
| 13 | MECH  | 01.04.2015 | Emerging Trends in Mechanical                                    | 1. Er.D.Selvaraj, Former Deputy General Manager,                                                                                                          | 35  |

|    |     |            |                                                   |                                                                                                                                                                  |    |
|----|-----|------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|    |     |            | Engineering                                       | Tamilnadu Energy Development Agency<br>2. Dr.V.Rathna Kishore,<br>Amrita University,<br>Coimbatore                                                               |    |
| 14 | EEE | 13.02.2016 | Advancement in Electrical Sciences”<br>NCAES ‘ 16 | Dr. R. Chitra,<br>CEO & Founder,<br>Delving Research & Development Pvt. Ltd.,<br>Coimbatore                                                                      | 40 |
| 15 | ECE | 19.02.2016 | Innovations in Communication and Computing 2016   | Dr.K.Kadirvelu,<br>Joint director DRDO-<br>Research centre<br>Bharathiyar University,<br>Coimbatore                                                              | 66 |
| 16 | IT  | 11.03.2016 | Network Intelligence and Computing systems        | Lakshmanan Duraisamy,<br>Technology Leader,<br>Enterprise Content Management & Digital Asset Management for Walt Disney Parks and Resorts, Orlando, Florida Area | 23 |

- **International Conference**

| S.No | Date           | Title of the conference                                                            | Name of the eminent person participated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No. of papers presented |
|------|----------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1    | 25–27 Feb 2015 | IEEE International Conference on Soft-Computing and Networks Security (ICSNS 2015) | <b>International Chairs</b><br><b>Dr.A. Paul,</b><br>Kyungpook National University,<br>South Korea<br><b>Prof. Chiang Yung –Chuan,</b><br>Andes Technology Corporation, Taiwan<br><b>Dr.T.N. Kasun De Zoysa,</b><br>University of Colombo,Sri Lanka<br><b>Dr. K. Chidananda Gowda</b><br>Former Vice Chancellor,<br>Kuvempu University<br><b>Mr.V.S. Prakash Attili</b><br>Head - Education & Training, Infosys Chennai<br><b>Shri. Rahuram Devalla</b><br>Group Practice Head, Technology Solutions, ROW Tech Mahindra Ltd, Chennai | 167                     |

|   |                        |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |
|---|------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 2 | 23.03.16 &<br>24.03.16 | International<br>Conference on<br>Mechanical<br>and Building<br>Sciences<br>(ICMBS'16 ) | <b>Mr.N.Sivasankaran,</b><br>General Manager-Application<br>Management, Global Quality & P D<br>Applications, Ford Technology Service<br>India, Chennai<br><b>Dr.Kahar Osman,</b><br>Faculty of Mechanical Engineering,<br>Universiti Teknologi, Malaysia.<br><b>Dr.Kua-anan Techato,</b><br>Deputy Dean, Faculty of Environmental<br>Management, Prince of Songkla<br>University, Hadyai, Thailand<br><b>Dr.Ramasamy Kandasamy ,</b><br>Professor, Research Centre Universiti<br>Ton Hussein Onn Malaysia, Johor,<br>Malaysia.<br><b>Dr.N.Lakshmanan,</b><br>Manager – Technology, ELGI<br>Equipment Ltd., Coimbatore | 93 |
|---|------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|

### 3.1.9 Details on the College initiative in transferring/advocating the relative findings of the research of the College and elsewhere to the students and the community. (Lab to Land)

Faculty members shared their research findings with students and the community. Those faculty members involved in the research findings put up in the laboratories so that student can update themselves by the research findings. Further, the research scholars pursuing Ph.D in our college research centres are presenting seminar about their work to our college students. Also, various students' seminars and conferences are conducted in which new ideas are known.

| S. No | Academic Year | Title of the new innovation findings transferred                                  | Beneficiary Group                                        |
|-------|---------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|
| 1     | 2014-2015     | GOKART& E-KART                                                                    | UG & PG Students, Researchers, General Public            |
| 2     | 2015-2016     | Criminal Identification using the biometrics trait in image processing            | PG students, Research Scholars                           |
|       |               | An Efficient Proxy re-signature techniques for preserving data integrity in cloud | Research Scholars                                        |
|       |               | Data analysis for chronic disease – diabetes using map reduce technique           | PG Students and General Public for creating an awareness |
|       |               | Extraction and Segmentation of Helmets in Motor Cycles                            | Research Scholars, PG Students and School Students       |
|       |               | Secure System Password (SSP) Application for NT Editor Hacking Tool               | Researchers and Industrialists                           |
|       |               | GOKART& E-KART                                                                    | UG & PG Students, Researchers, General Public            |
| 3     | 2016-2017     | Universal Gadget Controller Lens                                                  | School Students, General Public and UG students          |
|       |               | Rule based image extraction for mining                                            | Research Scholars and PG students                        |

|  |                                                                              |                                               |
|--|------------------------------------------------------------------------------|-----------------------------------------------|
|  | images from databases                                                        |                                               |
|  | Classification of Lesions from Retinal Images to Detect Diabetic Retinopathy | Research scholars                             |
|  | Payment of Bus Fare Using Handy Card                                         | General Public and School Students            |
|  | Data analysis for chronic disease – diabetes using map reduce technique      | Researchers and Industrialists                |
|  | GOKART                                                                       | UG & PG Students, Researchers, General Public |
|  | E-KART                                                                       | UG & PG Students, Researchers, General Public |
|  | SUBRA (Society of Automotive Engineers                                       | UG & PG Students, Researchers, General Public |

### **3.1.10 Give details on the faculty actively involved in research (Guiding student research, leading research projects, engaged in individual or collaborative research activity etc.)**

#### **Guiding student research**

The students of UG programmes have to take up a Project Phase I in their VII semester, Phase II in their final semester and the students of PG programmes have to take up a project phase I in their III semester and Phase II in their final semester. These research projects should be application oriented and focus on real world. Moreover, this project based learning has been introduced to the First year, Second year in order to inspired students towards creativity and innovation.

#### **Leading research projects / engaged in individual or collaborative research**

##### **i) Guiding Research Scholars**

- 21 recognized supervisors by Anna University
- 88 research scholars have registered their Ph.D Part-Time programme
- 26 other faculty members have been involved in the research

The list of supervisors and scholars involved in research activity are given in the **Annexure 3.2**

##### **ii) Executing Funded Research Projects**

3 funded projects worth, Rs 82,500 are executed and the details are given in the **Section 3.2.7**

## **3.2 RESOURCE MOBILIZATION FOR RESEARCH**

### **3.2.1 What percentage of the total budget is earmarked for research? Give details of the major heads of expenditure, financial allocation and actual utilization for last four years.**

Nearly 3% of the total budget is allocated for research and development related activities.

| Financial Year            | 2015-16   | 2014-15   | 2013-14   | 2012-13   |
|---------------------------|-----------|-----------|-----------|-----------|
| Sanctioned (Rs.)          | 27,12,300 | 32,13,511 | 22,78,845 | 24,42,845 |
| Utilized (Rs.)            | 23,97,887 | 34,92,991 | 17,30,280 | 18,95,430 |
| Percentage of utilization | 88.40%    | 108.70%   | 75.93%    | 77.59%    |

### **3.2.2 What are the financial provisions made in the College budget for supporting student research projects?**

- Students are encouraged to use advanced equipment like UTM, ECR Engines, Surface Testing Instruments, Exhaust gas analyser, subsonic Wind Tunnel, Robotics, TIG welding, MIG welding, Siemens Kit and Softwares like MATLAB, CADANCE, LABVIEW, ANSYS, Solid Edge, Algor FEMpro, Hydrosim, Pneumosim, SPSS etc., for their students research projects
- Management provides funds upto Rs. 1,00,000/- for developing vehicles/ working models and participating in National level competitions
- Each department is given a maximum amount of Rs. 1,00,000/- for students to start their innovative research works and the seed money can be used to purchase equipment, consumables, software etc., for their work
- Internet connectivity with 100 Mbps bandwidth and Wi-Fi connectivity is available for 24x7 in the college and the hostel
- Subscription of journals & e-journals to the central library
- Financial assistance is provided for students participating in International conferences in abroad

### **3.2.3 Is there a provision in the institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last four years?**

- Yes. There is a provision in the college to provide seed money to faculty for research
- Each department is given a maximum amount of Rs. 1,00,000/- for faculty members to start their innovative research works
- The seed money can be used to purchase equipment, consumables, software's etc. for their work
- Faculty members pursuing Ph.D programmes are provided with seed money to take care of their research expenses
- As the seed money scheme has been recently introduced and 10% of faculty members have started utilizing the opportunity

### **3.2.4 Are there any special efforts made by the College to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.**

- Yes. The college organizes the programmes for faculty members and students regarding patent filing
- 53 faculty members attended IPR related programmes conducted by other Institutions

| S. No | Name of the Event organized regarding Patent/IPR etc                                   | Resource Person details                                                                          | Beneficiary                   |
|-------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------|
| 1     | Workshop on “Patenting your Technology”                                                | Dr.A.Amar Karthik,<br>Bannari Amman Institute of Technology, Sathyamangalam                      | 50<br>Staff:20<br>Students:30 |
| 2     | Guest Lecture on “Key ideas of Research Funding Proposals”                             | Dr.A.Ganesh Balaji,<br>Professor &Coordinator, TIFAC-CORE, Velammal Engineering College, Chennai | 62<br>Staff:30<br>Students:32 |
| 3     | One day International Seminar on “Research proposals writing, execution and patenting” | Dr.S.Neelamani<br>Former Professor IIT Madras, Research and innovative cell, Kuwait University.  | 50<br>Staff:30<br>Students:20 |
| 4     | Workshop on “IPR and Patenting”                                                        | Dr. M.Kandababu,<br>Director-IPR, Anna University, Chennai                                       | 43<br>Staff:43                |

#### Details of Patents filed

| S.No                     | Name of the faculty                          | Patent filed Date | Application No.                 | Title of the patent                                                      | Status                                          |
|--------------------------|----------------------------------------------|-------------------|---------------------------------|--------------------------------------------------------------------------|-------------------------------------------------|
| <b>Granted Patents</b>   |                                              |                   |                                 |                                                                          |                                                 |
| 1                        | J. Alfred Daniel,CSE                         | 01.04.15          | 10-2015-0046184 (Korean Patent) | A system of cooperative vehicular network based on Cognitive radio       | Reg. No: 1015891020000<br>Granted on 21.01.2016 |
| <b>Published Patents</b> |                                              |                   |                                 |                                                                          |                                                 |
| 2                        | Dr.P.Tamilselvam& V.R.Hariram, Dept of Mech. | 20.06.16          | 201641021088                    | Semi –Automatic Braking System For Automobile                            | Publication Date: 15.07.16 Journal No.: 29/2016 |
| 3                        | D.Balaji & L.Harirama Krishnan Dept of Aero  | 13.10.16          | 201641034887                    | Circulation Enhancement over the Aerofoil                                | Publication Date: 21.10.16 Journal No.: 44/2016 |
| <b>Filed Patents</b>     |                                              |                   |                                 |                                                                          |                                                 |
| 1                        | Dr. S.Karthik Dept of CSE                    | 10.02.16          | 201621003252                    | Safe mode login transaction for forces online banking Intrusion Activity | Patent Filed                                    |

|   |                                                         |          |        |                           |              |
|---|---------------------------------------------------------|----------|--------|---------------------------|--------------|
| 2 | Dr.T.Ravichandran,<br>& Mr.T.Prabakaran,<br>Dept of ECE | 21.06.16 | 284598 | Mobile Charging<br>Holder | Patent Filed |
|---|---------------------------------------------------------|----------|--------|---------------------------|--------------|

### 3.2.5 Provide the following details of ongoing research projects:

| Projects                                                 | Year wise | Number | Name of the project                                                                                                 | Name of the funding agency/ Industry  | Total grant received in Rs. |
|----------------------------------------------------------|-----------|--------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------|
| A. College funded                                        |           |        |                                                                                                                     |                                       |                             |
| Minor projects                                           | 2013-14   | 1      | Autonomous robotic boat for marine water sampling                                                                   | The Institute of Engineers IE (India) | 50,000                      |
|                                                          | 2015-16   | 1      | Air Cooling System in Car using Solar Energy                                                                        | The Institute of Engineers (India)    | 25,000                      |
|                                                          | 2016-17   | 4      | Experimental Investigation of non reacting coaxial jets: Flow and mixing Characteristics                            | UGC                                   | 3,30,000                    |
|                                                          |           |        | Concrete with nano materials for nuclear power plant construction                                                   | UGC                                   | 2,90,000                    |
|                                                          |           |        | Development of high performance self-healing coating system using CNSL based resins and functionalised Nano filters | UGC                                   | 1,05,000                    |
|                                                          |           |        | Synthesis and Characterization of New Heterocyclic Compounds Anticancer and Molecular Docking studies               | UGC                                   | 94,000                      |
| Major projects                                           | -         | -      | -                                                                                                                   | -                                     | -                           |
| Along with Industry                                      | -         | -      | -                                                                                                                   | -                                     | -                           |
| B. Other agencies - National and International (specify) |           |        |                                                                                                                     |                                       |                             |
| Minor projects                                           | -         | -      | -                                                                                                                   | -                                     | -                           |
| Major projects                                           | -         | -      | -                                                                                                                   | -                                     | -                           |
| C. Industry sponsored                                    |           |        |                                                                                                                     |                                       |                             |
|                                                          | -         | -      | -                                                                                                                   | -                                     | -                           |

### 3.2.6 How many departments of the College have been recognized for their research activities by national / international agencies (UGC-SAP, CAS, DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthrough due to such recognition.

The college do not have recognized centres for research activities by National / International agencies (UGC-SAP, CAS, DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.). However the college has received funds from UGC, TNSCST, IE(I) to carryout research activities and projects. Further the departments of Civil, CSE, EEE and Mechanical are recognized as research centres to carry out research activities by Anna University and its significant outcomes are given below.

No of scholar completed Ph.D : 108

No of scholar doing Ph.D : 130

|                                                              |       |
|--------------------------------------------------------------|-------|
| No of papers published in International/National Journals    | : 940 |
| No of papers presented in International/National Conferences | : 938 |
| No of patent filed                                           | : 5   |

**3.2.7 List details of completed research projects undertaken by the College faculty in the last four years and mention the details of grants received for such projects (funded by Industry/ National/International agencies).**

| S. No | Faculty Name with Designation | Research Project Title                            | Funding Agency                     | Grants received in Rs. |
|-------|-------------------------------|---------------------------------------------------|------------------------------------|------------------------|
| 1     | Dr.John Alexis, Prof/MECH     | Autonomous robotic boat for marine water sampling | The Institute of Engineers (India) | 50,000                 |
| 2     | Dr.M.Thiagarajan, Prof/MECH   | Railway Enhancement Program                       | TNSCST                             | 7,500                  |
| 3     | Dr.P.Tamilselvam, HoD/MECH    | Air Cooling System in Car using Solar Energy      | The Institute of Engineers (India) | 25,000                 |

### 3.3 RESEARCH FACILITIES

**3.3.1 What efforts are made by the College to keep pace with the infrastructure requirements to facilitate Research? How and what strategies are evolved to meet the needs of researchers?**

**Infrastructure requirements to facilitate Research**

- The college takes efforts to facilitate research with all resources like Research laboratories, digital library and computer lab facilities especially for research and project works
- All the departments are equipped with R & D related equipment which could be used for pursuing research over and above the curriculum offered in the college
- Internet connectivity and Wi-Fi facility are made available for the students and the faculty to enable them to review their academics and their research programs

In addition to the facilities mentioned, many strategies are evolved to meet the needs of researchers. Books and journals for the researchers are purchased according to the recommendation of the respective departments. Central Library has separate sections for the display of research journals which have hardcopy resources as well as e-journals and e-resources.

**3.3.2 Does the College have an information resource centre to cater to the needs of researchers? If yes, provide details on the facility.**

The college has a well-established information resource centre in the central library which houses the digital library, intranet and internet facilities with 100 Mbps connectivity speed, Wi-Fi facility, and excellent reference books. The library has 1651 periodicals and 59318 nos. of Non Print (Microfiche, AV) materials for students and faculty references.



The following is the list of e-books and e-Journals that are available:

| S.No. | E-Journal Package         | No. of Journals | Relevant Course                    |
|-------|---------------------------|-----------------|------------------------------------|
| 1     | National Journals (Print) | 152             | Engineering and Technology Courses |
| 2     | IEEE (ASPP)               | 169             | Engineering and Technology Courses |
| 3     | DELNET                    | 1330            | Engineering , MCA and MBA Courses  |
| 4     | E- Books                  | 663             | Engineering , MCA and MBA Courses  |

**3.3.3 Does the College provide residential facilities (with computer and internet facilities) for research scholars and faculty?**

- Yes. The College provides residential facilities for research scholars and faculty members with computers, internet facilities with 100 Mbps bandwidth
- The campus is with enabled 24x7 Wi-Fi facility, which helps the researchers have an uninterrupted scholarly activity

**3.3.4 Does the College have a specialized research centre/ workstation to address challenges of research programmes? If yes, give details.**

Yes.

- The College promotes the research activities and empowers the researchers undertake challenges
- The details of specialized research centres/ workstations are furnished in **Annexure 3.3**

**3.3.5 Does the College have research facilities (centre, etc.) of regional, national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.**

Yes.

Four departments of the college have been recognized as research centres by Anna University.

- The college takes efforts to facilitate research with all resources like research laboratories, digital library and computer lab facilities
- Internet connectivity and Wi-Fi facility (24x7) is also available for the researchers and the faculty to enable their research
- Books and journals are available for research references
- Central Library has separate journal section with back volumes
- 21 faculty members are recognized as Supervisors by Anna University, Chennai
- 50 external faculty members completed their Ph.D and 52 external faculty members pursuing Ph.D in our research centres

### 3.4 RESEARCH PUBLICATIONS AND AWARDS

#### 3.4.1 Highlight the major research achievements of the College through the following:

- **Major papers presented in Regional, National and International conferences**

The faculty members presented 309 papers in National Conferences and 516 papers in International Conferences for the past 4 years.

| S.No | Academic Year | Number of Major Papers Presented in Conferences |               |
|------|---------------|-------------------------------------------------|---------------|
|      |               | National                                        | International |
| 1    | 2012-13       | 71                                              | 82            |
| 2    | 2013-14       | 135                                             | 53            |
| 3    | 2014-15       | 53                                              | 172           |
| 4    | 2015-16       | 25                                              | 177           |
| 5    | 2016-17       | 25                                              | 32            |

- **Publication per faculty**

| S.No | Academic Year | Total Publications | Faculty Members involved | Publication per faculty |
|------|---------------|--------------------|--------------------------|-------------------------|
| 1    | 2012-13       | 236                | 67                       | 3.52                    |
| 2    | 2013-14       | 249                | 81                       | 3.07                    |
| 3    | 2014-15       | 256                | 93                       | 2.75                    |
| 4    | 2015-16       | 264                | 108                      | 2.44                    |
| 5    | 2016-17       | 24                 | 57                       | 0.42                    |

- **Faculty serving on the editorial boards of National and International journals**

| S. No | Faculty Name / Designation/ Dept   | Name of the National/ International Journal                                                     | Role                            |
|-------|------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|
| 1     | Dr.S.Karthik, Dean/CSE             | International Journal of Advanced Research in Computer Science and Engineering Technology       | Editorial board member          |
| 2     |                                    | International Journal of Emerging Technology & Research                                         | Editorial board member          |
| 3     | Mr.B.Santhosh Kumar, AP(SG)/CSE    | International Journal of Research in Computer Science                                           | Editorial/Reviewer Board Member |
| 4     | Dr.M.Mohanageetha, Professor/ECE   | International Journal of Advanced research in Electrical & Electronics and Instrumentation Engg | Editorial board member          |
| 5     | Dr. S. Chenthur Pandian, Principal | International Journal of Multidisciplinary Research and Advances in Engineering                 | Editorial Board Member          |

|    |                                 |                                                                                 |                        |
|----|---------------------------------|---------------------------------------------------------------------------------|------------------------|
| 6  | Dr. R. Subramanian,<br>Dean/EEE | Journal of Computer and Electrical Engineering                                  | Editorial Board Member |
| 7  | Dr.S.Poornachandra,<br>Dean/EIE | IEEE-INDICOM                                                                    | Editorial Board Member |
| 8  |                                 | International Journal of Electronics, Electrical and Communication Engineering  | Editorial Board Member |
| 9  |                                 | International Journal of Computer Applications                                  | Editorial Board Member |
| 10 |                                 | International Journal of Advances in Electrical and Electronic Engineering      | Editorial Board Member |
| 11 | Dr.J.Shanthini,<br>ASP/IT       | International Journal of Applied Research on Information Technology & Computing | Editorial Board Member |
| 12 |                                 | International Journal of Research in Science and Technology                     | Editorial Board Member |
| 13 | Mr.M.Udhayamoorthy,<br>AP/IT    | International Journal of Advanced Information & Communication Technology        | Editorial Board Member |
| 14 |                                 | International Journal for Innovative Research in Science & Technology           | Editorial Board Member |
| 15 | Dr.M.Shanmugaraja,<br>Prof/MECH | International Journal of Entrepreneurship and small business management         | Editorial Board Member |

Besides, Faculty members of the College extend their services to the 56 Journals by reviewing the papers and offering expert comments are furnished in **Annexure 3.4**

- **Faculty members of the organization committees of international conferences, recognized by reputed organizations / societies.**

| S.No | Faculty Name/<br>Designation/Dept | Name of the international conferences                                                     | Name of the Recognized Organizations/<br>Societies/ Institutions | Role                       |
|------|-----------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------|
| 1    | Dr.S.Karthik,<br>Dean/CSE         | International Conference on Computing, Communication and Electrical Technologies          | Vivekanandha Institute of Engg& Tech for Women, Tiruchengode     | Advisory Committee Members |
| 2    | Dr.S.Karthik,<br>Dean/CSE         | IEEE International Conference on Soft-computing and Networks Security                     | SNS College of Technology                                        | Conference Chair           |
| 3    | Dr.S.Karthik,<br>Dean/CSE         | International Conference on Recent Innovative Trends in Computer Science and Applications | M S RAMAIAH Institute of Technology, Bangalore                   | Advisory Committee         |
| 4    | Dr.S.Karthik,<br>Dean/CSE         | World Congress on Computing and Communication Technologies                                | St. Joseph's College Tiruchirappalli                             | Conference Chairs          |
| 5    | Dr.T.Kalaikumaran,<br>HoD/CSE     | IEEE International Conference on Soft-computing and Networks Security                     | SNS College of Technology                                        | Conference Co-Chair        |

|    |                                       |                                                                                                       |                                                  |                       |
|----|---------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------|
| 6  | Mrs.I. Kala,<br>ASP/CSE               | IEEE International Conference on Soft-computing and Networks Security                                 | SNS College of Technology                        | Publication Chair     |
| 7  | Mrs.R. M. Bhavadharini,<br>AP(SG)/CSE | IEEE International Conference on Soft-computing and Networks Security                                 | SNS College of Technology                        | Conference Treasurer  |
| 8  | Mrs. K. Sangeetha,<br>AP/CSE          | IEEE International Conference on Soft-computing and Networks Security                                 | SNS College of Technology                        | Information Contact   |
| 9  | Dr. R. Subramanian,<br>Dean/EEE       | International Conference on Innovations in Engineering                                                | Dr. N.G.P Institute of Engg and Tech, Coimbatore | Advisory Board Member |
| 10 | Dr. R. Subramanian,<br>Dean/EEE       | International Conference on Recent Researches in Engg, Science and Technology                         | JCT College of Engg and Tech, Coimbatore         | Advisory Board Member |
| 11 | Dr.L.M.Nithya,<br>HoD/IT              | IEEE International Conference on Soft-computing and Networks Security                                 | SNS College of Technology                        | Conference Co-Chair   |
| 12 | Dr.J.Shanthini,<br>ASP/IT             | IEEE International Conference on Soft-computing and Networks Security                                 | SNS College of Technology                        | Technical Chair       |
| 13 | Dr.G.PrinceArulraj,<br>Dean/Civil     | International conference on Mechanical and Building Sciences                                          | SNS College of Technology                        | Organizing Chairs     |
| 14 | Dr.R.Anuradha,<br>ASP/Civil           | International conference on Mechanical and Building Sciences                                          | SNS College of Technology                        | Organizing Chairs     |
| 15 | Mr. Alfred Daniel,<br>AP/CSE          | ACM Symposium on Applied Computing                                                                    | Association for Computing Machinery              | Technical Committee   |
| 16 | Mr. B.Santhosh Kumar, AP(SG)/CSE      | First International Conference on Advances & Challenges in Interdisciplinary Engg and Management 2016 | ASDF                                             | Technical Committee   |
| 17 | Mr. B.Santhosh Kumar, AP(SG)/CSE      | International Conference on Innovative trends in Electronic Communication and Applications            | ASDF                                             | Technical Committee   |
| 18 | Mr. B.Santhosh Kumar, AP(SG)/CSE      | Sixth International Conference on Cloud Computing and e-Governance 2017                               | ASDF                                             | Technical Committee   |
| 19 | Mr. B.Santhosh Kumar, AP(SG)/CSE      | First International Conference on Frontiers of Research in Engineering, Science and Technology 2017   | ASDF                                             | Technical Committee   |
| 20 | Mr.S.Sundararajan,<br>Head/MCA        | IEEE International Conference on Soft-computing and Networks Security                                 | SNS College of Technology                        | Conference Co-Chair   |

**3.4.2 Does the College publish research journal(s)? If yes, indicate the composition of the editorial board, publication policies and whether it is listed in international database?**

Yes. The college publishes a National Research Journal.

**Journal Name:** SNS Journal of Finance (2 Issues per year)

**Print ISSN:** ISSN 0975 1408

**Chief Patron:** Dr.S.N.Subbramanian

**Chairperson:** Dr.S.NalinVimal Kumar

**Patron:** Dr.S.ChenthurPandian

**Editorial Board:**

| S.No | Name                 | Designation, Address                                                                                                         | Responsibility                  |
|------|----------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1    | Dr.M.G.Saravanaraj   | Director, Master of Business Administration                                                                                  | Editor – in - Cheif             |
| 2    | Dr.R.Venkatapathy    | Professor & Director, Bharathiyar School of Management and Entrepreneurship Development, Bharathiyar University, Coimbatore. | Associated Editor               |
| 3    | Dr.N.Panchanantham   | Professor & Head, Department of Business Administration, Annamalai University                                                | Associated Editor               |
| 4    | Dr.M.Thenmozhi       | Professor, DOMS, IIT Chennai                                                                                                 | Associated Editor               |
| 5    | Mr.P.V. Prabhu Chari | HR- Head, Cognizant Technology Solutions                                                                                     | Corporate Advisor               |
| 6    | Mr.Mayank Gupta      | HR- Head, DELL, Coimbatore                                                                                                   | Corporate Advisor               |
| 7    | Dr.K.S.Chandrasekhar | Head, Institute of Management in Kerala                                                                                      | Editorial Advisory Board Member |
| 8    | Dr.B.Kamaiah         | University of Hyderabad                                                                                                      | Editorial Advisory Board Member |
| 9    | Dr.G.Srinivasan      | National Institute for Industrial Engineering                                                                                | Editorial Advisory Board Member |
| 10   | Dr.J.K.Parida        | Utkal University                                                                                                             | Editorial Advisory Board Member |
| 11   | Dr.M.S.Narasiman     | IIM, Bangalore                                                                                                               | Editorial Advisory Board Member |
| 12   | Dr.K.RamaMohanaRao   | Andra University                                                                                                             | Editorial Advisory Board Member |
| 13   | Dr.K.Maran           | Sri Sai Ram Institute of Management                                                                                          | Editorial Advisory Board Member |

**International Editorial Members:**

|                           |                                                                     |
|---------------------------|---------------------------------------------------------------------|
| Dr.G.Gbolahan Gbadamosi   | Worcester Business School, University of Worcester, United Kingdom. |
| Dr.Babu P Geroge          | University of Southern Mississippi, USA                             |
| Dr.Rama B. Rao            | Faculty of Economics & Management, National University of Rwanda    |
| Dr.BabsSurujilal          | Vaal University of Technology, South Africa                         |
| Dr.Christopher Selvarajah | Swinburne University, Australia                                     |
| Dr.Alikhatibi             | Graduate Management Centre (GMC), Malaysia                          |
| Dr.A.Seetharaman          | SP Jain Centre of Management, Singapore                             |

**Publication Policy**

- The article should have a standard size of not exceeding 10 pages (around 2500 words) including Diagram, graphs and Tables.
- Text must be neatly typed in A4 size papers with 1” margin all the sides, using Times New Roman font, 12 font size and 1.5 line spacing.
- The cover page of the article should contain the Paper Title, Name(s) of the Author(s), Author affiliation(s), Full address, E-mail ID, Contact phone number and a brief profile of the author(s).
- The article should have an abstract not exceeding 150 words.
- The references should be at the end of the article, serially numbered and organized alphabetically by surnames of the first author
- The components are: Name of the Author(s), Year of Publication and Source reference. Examples:
  - Books: Hill, C.W.L.(2003), International Business, Tata McGraw Hill Publishing Co. Ltd., India.
  - Journals: Allen, H. & Taylor, M.P.(1989), Chart Analysis and Foreign Exchange Market, Review of Financial Markets, Volume 8 (Issue 2), P.288-319.
  - Websites: Alpari (UK) Limited, alpari, <http://www.alpari-idc.com/en/market-analysis-guide/technicalanalysis/cci.html>, retrieved September 04, 2008
- The author(s) regarding its authenticity, originality, non-violation of copyright and not publishing/presenting it elsewhere and all the articles are subject to peer review
- Address for communication: Journal of Finance, SNS Business School, SNS College of Technology, Sathy Main Road, Vazhiyampalayam, Saravanampatti Post, Coimbatore-641035.

- A soft copy of the manuscript is required to be sent to [snsjfinance@gmail.com](mailto:snsjfinance@gmail.com)
- Preference will be given to research articles supported by empirical study- the research article should be presented in the standard format covering essentials like Introduction, Review of Literature, Objectives, analysis, Findings and Conclusion.
- The journal also invites Case studies, Book Reviews and Contemporary Issues
- Last date for receiving the articles is as under:
  - 30<sup>th</sup> April for January-June Issue
  - 31<sup>st</sup> October for July-December Issue
- **Whether the Journal Listed in International Database?**  
No

### 3.4.3 Give details of publications by the faculty:

|     |                                                                                                                                                                                           |                                                   |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 1.  | Peer-reviewed Publications (including multiple authors)                                                                                                                                   | <b>839</b>                                        |
| 2.  | Monographs                                                                                                                                                                                | -                                                 |
| 3.  | Chapters in Books                                                                                                                                                                         | <b>1</b>                                          |
| 4.  | Editing Books                                                                                                                                                                             | -                                                 |
| 5.  | Books with ISBN Number                                                                                                                                                                    | <b>10</b>                                         |
| 6.  | Number listed in International Database<br>(For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCOhost, etc.) | <b>Scopus: 750</b><br><b>Google Scholar: 2784</b> |
| 7.  | Citation Index – Range / average                                                                                                                                                          | <b>Min-1; Max-727</b>                             |
| 8.  | SNIP                                                                                                                                                                                      | <b>Min-0.01;Max-1.5</b>                           |
| 9.  | SJR                                                                                                                                                                                       | <b>Min-0.105;Max-0.939</b>                        |
| 10. | Impact Factor – Range / average                                                                                                                                                           | <b>Min-0.07; Max-7.82</b>                         |
| 11. | h-index                                                                                                                                                                                   | <b>Min-1;Max-16</b>                               |

### 3.4.4 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty.

| S.No | Name of the Supervisor, Designation & Department | No of Ph.D Scholars completed under his/her Guideship in last 4 years | No. of Ph.D scholars guiding in last 4 years |
|------|--------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|
| 1    | Dr.G.Prince Arulraj, Professor& Dean, Civil      | 2                                                                     | 12                                           |
| 2    | Dr.S. Kandasamy, Professor & Dean, Civil         | 8                                                                     | 12                                           |
| 3    | Dr.R.Anuradha, Associate Professor, Civil        | -                                                                     | 8                                            |
| 4    | Dr.V.P.Arunachalam, Director & Professor, CSE    | 12                                                                    | 12                                           |

|    |                                              |    |    |
|----|----------------------------------------------|----|----|
| 5  | Dr.S.Karthik,<br>Professor & Dean, CSE       | 10 | 12 |
| 6  | Dr.K.Srihari<br>AP(SG)/CSE                   | -  | 4  |
| 7  | Dr. S. Chenthur Pandian,<br>Principal        | 13 | 5  |
| 8  | Dr. R. Subramanian,<br>Professor & Dean, EEE | -  | 1  |
| 9  | Dr.T.Ravichandran,<br>Dean & HoD, ECE        | 24 | 18 |
| 10 | Dr.D.Mohanageetha,<br>Professor, ECE         | -  | 5  |
| 11 | Dr.A.Shanmugam,<br>Dean, ECE                 | 23 | 6  |
| 12 | Dr.D.Somasundareshwari,<br>HoD, ECE          | 2  | 9  |
| 13 | Dr.S.Poornachandra,<br>Professor & Dean, EIE | 1  | 2  |
| 14 | Dr.J.Shanthini<br>ASP/IT                     | -  | 4  |
| 15 | Dr.Tamilselvan<br>HoD, MECH                  | -  | 5  |
| 16 | Dr.R.Thirumalai,<br>Professor, MECH          | 1  | 5  |
| 17 | Dr. M.Subramaniam,<br>Professor, MECH        | -  | 2  |
| 18 | Dr.M.G.Saravananaraj,<br>Director, MBA       | 4  | 10 |

### **3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?**

The College is committed to ensure that the research work undertaken adheres to ethical practices and the researchers avoid malpractices and misconduct. The college Research and Development cell monitor the status of Ph.D scholars periodically. All the faculty are required to check their research work, reports, paper publications using the available plagiarism detection software such as Urkund, i-Thenticate, etc.,. The college follows the norms of the affiliating university in respect of plagiarism and misconduct in research.

### **3.4.6 Does the College promote interdisciplinary research? If yes, how many inter departmental / inter disciplinary research projects have been undertaken and mention the number of departments involved in such an endeavor.**

Yes, the College promotes interdisciplinary research. The details of inter departmental / inter disciplinary research projects undertaken so far is listed already in section 3.1.5

Apart from that, inter departmental/inter disciplinary research activities are encouraged and so far 34 projects have been completed.



### 3.4.7 Mention the research awards instituted by the College.

- The College has instituted the research award for faculty publications and for obtaining research grants from external bodies
- Dr.S.Karthik, Dean/CSE received “Outstanding Performer” for the Academic year 2014-15” and “Remarkable Achievement in Research” for the Academic year 2015-16

### 3.4.8 Provide details of:

- Research awards received by the faculty

| S. No | Name of the Faculty/Designation       | Name of the Award         | Awarded by                                              |
|-------|---------------------------------------|---------------------------|---------------------------------------------------------|
| 1     | Dr.S.Karthik, Dean/CSE                | Best Faculty Award-Senior | Nehru group of Institutions                             |
| 2     | Mr.T.Prakash AP(SG)/Mech              | Best Research paper award | KPR Institute of Engineering and Technology, Coimbatore |
| 3     | Dr.P.Krishnaveni/ Assistant Professor | Best paper Award          | Sri Ramakrishna Engineering College                     |

- Recognition received by the faculty from reputed professional bodies and agencies

| S. No | Name of the Faculty/Designation  | Recognition details                                                         | Professional Body/Agency details                         |
|-------|----------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------|
| 1     | Dr.S.Karthik, Dean/CSE           | Best Academic Dean                                                          | Third ASDF Global award, Techno forum group, Pondicherry |
| 2     | Dr.S.Karthik, Dean/CSE           | Best Teacher Award                                                          | Global Vision Infocon Services Pvt Ltd., Coimbatore      |
| 3     | Dr.S.Karthik, Dean/CSE           | Best Academic Researcher                                                    | ASDF Global awards, Thailand Chapter                     |
| 4     | Dr.S.Karthik, Dean/CSE           | Biographical record in “Who’s is Who in the world” 33 <sup>rd</sup> Edition | Marquis Who’s Who Publication Board, USA                 |
| 5     | Dr.S.Chenthur Pandian, Principal | Best Principal Award                                                        | PEARL - A Foundation for Educational Excellence          |
| 6     | Dr.P.Vivekanandan, HoD, MCT      | Distinguished HoD                                                           | CSI TechNext India-2017 by CSI Mumbai Chapter            |

### 3.4.9 State the incentives given to faculty for receiving state, national and international recognitions for research contributions.

Incentives are given to faculty for receiving state, national and international recognitions for research contributions during the College Day celebrations every year. The

details of incentives given to the faculty are listed in Table.

| S. No | Activities of the faculty           | Incentives | Remarks            |
|-------|-------------------------------------|------------|--------------------|
| 1     | Journal publications in Annexure-I  | Rs. 2,000  | Author & Co-Author |
| 2     | Journal Publications in Annexure-II | Rs. 1,000  | Author & Co-Author |
| 3     | Book Publication                    | Memonto    | Author & Co-Author |

### 3.5 CONSULTANCY

#### 3.5.1 What is the stated policy of the College for structured consultancy? List a few important consultancy services undertaken by the College.

The college has a structured policy which covers the range of consultancy activities. A senior professor is designated as consultancy coordinator to coordinate with industries for consultancy services. The college provides an attractive revenue package to those who are involved in consultancy activities. The income received from a consultancy is shared as follows:

- 50% is given to the faculty members
- 25% is utilized for the Department development
- 25% is utilized for the institutional development, in cases when the college infrastructure is used. In case of Consultancy works based on expertise of the faculty 70% is given to the faculty members, 10% is utilized for the Department development and remaining 20% is utilized for the Institutional development. Further there are other non-monetary benefits like on duty leaves provided to the faculty members.

Some of the important consultancy services undertaken by the College:

#### Area of Consultancy services undertaken by the college:

| S.No | Name of the Department                      | Area of Consultancy                                                                            |
|------|---------------------------------------------|------------------------------------------------------------------------------------------------|
| 1    | Civil Engineering                           | Building Material Testing<br>Water Quality Testing<br>Soil Investigations<br>Structural Design |
| 2    | Computer Science and Engineering            | System design<br>Mobile application development                                                |
| 3    | Electrical Engineering                      | Machine Design<br>Internet of Things (IOT)<br>Power Electronics Applications                   |
| 4    | Electronics & Communication Engineering     | PCB design                                                                                     |
| 5    | Electronics and Instrumentation Engineering | Industrial Automation<br>Embedded and Real time Systems                                        |
| 6    | Information Technology                      | Web technologies<br>Billing and Automation Software                                            |

|   |                        |                                                         |
|---|------------------------|---------------------------------------------------------|
| 7 | Mechanical Engineering | Casting work<br>IC Engines<br>Materials<br>CNC machines |
| 8 | Mechatronics           | Robotics<br>Sensor & Instrumentation                    |

### 3.5.2 Does the College have College-industry cell? If yes, what is its scope and range of activities?

Yes, the college has an Industry Institute Partnership Cell (IIPC) which functions independently to facilitate the consultancy works in the college. The Cell is headed by Principal, and is coordinated by a Senior Professor of all the departments are Head members of IIPC. The Cell organizes regular meetings to discuss the progress of IIPC activities of each department.

#### Scope of IIPC:

- To build and maintain active relationship between the College and the Industries which helps to enhance the technical skills of the faculty members by linking the theoretical knowledge from academics to the real time practical applications in industries.
- To imbibe the work culture of the industry and to make them industry among students ready from day one.

#### Activities of IIPC:

- Facilitating for signing Memorandum of Understanding (MoU) with industries.
- Arranging internships, In-plant training, industrial visits, Industrial Projects, industrial research, consultancy works and Guest lectures from industry personnel.
- Involving industrial experts in developing curriculum and syllabus framing.
- Identifying the industry experts in the emerging areas for designing and conducting one credit courses which focus on bridging the gap between Industry and Academia.
- Coordinating Industry – Academia collaboration for improving research activities and publications of faculty members and students.
- Identifying the leading industries for providing placement opportunities to students.
- Organizing technical exhibitions to showcase the talents of students.
- Arranging student and faculty visits to technical exhibitions to understand the cutting edge and latest technologies.
- Giving viable and practical solutions to the industrial problems through consultancy.

The details of the IIPC cell activities are given in **Annexure 3.5**

MOU Activities carried out by IIPC for past four years:

| Activities carried out by IIPC                           | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | 2016-2017 |
|----------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Professional training offered by industries              | 1         | 0         | 32        | 152       | 143       |
| Number of students attended Inplant training             | 30        | 64        | 137       | 253       | 232       |
| Number of companies offered Inplant training             | 9         | 6         | 31        | 46        | 45        |
| Number of students attended internship                   | 0         | 19        | 18        | 82        | 185       |
| Number of companies offered internship                   | 1         | 6         | 9         | 9         | 17        |
| Total number of industries visited by students           | 2         | 4         | 12        | 9         | 10        |
| Total number of industries visited by faculty members    | 3         | 6         | 43        | 65        | 51        |
| Number of Industrial projects done by students           | 8         | 1         | 13        | 50        | 56        |
| Number of guest lectures organized through industries    | 4         | 7         | 28        | 25        | 11        |
| Number of Hands on training organized through industries | 1         | 1         | 2         | 2         | 6         |
| Number of seminars organized through industries          | 1         | 0         | 9         | 16        | 4         |
| Number of workshops organized through industries         | 0         | 1         | 5         | 19        | 11        |

### 3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.

Mode of Publicity:

- The college website hosts the details of expertise and experience of the faculty members that help corporate and business firms to identify suitable resource for their consultancy work.
- Publicity is also created through the alumni of our college who are placed in several organizations.
- The college invites industrial experts to visit the campus and to interact with faculty members and students of our college thereby they are aware about the resources and expertise available.

Following table shows the details of consultancy expertise of the college:

Consultancy services offered by various organizations in their thrust area:

| S.No                                   | Thrust Area               | Organizations to which consultancy is provided |
|----------------------------------------|---------------------------|------------------------------------------------|
| <b>Department of Civil Engineering</b> |                           |                                                |
| 1                                      | Structural Design         | Sree Sabari Construction, Coimbatore           |
|                                        |                           | Sharpoorji Pallonji, Coimbatore                |
| 2                                      | Building Material testing | Adrait Urban Developers, Coimbatore            |
|                                        |                           | T.R Associates, Pollachi                       |

|                                                           |                                      |                                      |
|-----------------------------------------------------------|--------------------------------------|--------------------------------------|
|                                                           |                                      | CIT, Coimbatore                      |
| 3                                                         | Soil Investigations                  | Sree Devi, Coimbatore                |
|                                                           |                                      | Larsen & Toubro Limited, Coimbatore  |
|                                                           |                                      | Blue Line Construction, Namakkal     |
| Department of Computer Science and Engineering            |                                      |                                      |
| 1                                                         | System Design                        | Sandfits Foundries                   |
| 2                                                         | Application development              | BE Positive Technologies, Coimbatore |
|                                                           |                                      | PRS Techno Solutions, Coimbatore     |
| Department of Electronics and Communication Engineering   |                                      |                                      |
| 1                                                         | PCB Design                           | Comtustec , Coimbatore               |
| Department of Electrical Engineering                      |                                      |                                      |
| 1                                                         | Electrical Machine Design            | Asian Motors, Coimbatore             |
|                                                           |                                      | Jai Industries, Coimbatore           |
| 2                                                         | Power Electronic application         | Indus Electronics, Coimbatore        |
| 3                                                         | Internet of Things (IOT)             | Karthikeya Enterprises, Coimbatore   |
| Department of Electronics and Instrumentation Engineering |                                      |                                      |
| 1                                                         | Automation                           | Innovate Engineers, Coimbatore       |
| 2                                                         | Embedded Systems                     | Vento Infotech Pvt.Ltd, Coimbatore   |
| Department of Information Technology                      |                                      |                                      |
| 1                                                         | Billing & Stock maintenance Software | Locks and More, Coimbatore           |
| 2                                                         | Website creation                     | R.J. Matriculation School            |
| 3                                                         | Billing software                     | S.P. Associates                      |
| Department of Mechanical Engineering                      |                                      |                                      |
| 1                                                         | Casting work                         | CIET, Coimbatore                     |
|                                                           |                                      | DM Engineering Works, Coimbatore     |
| 2                                                         | IC engines                           | Swagath Industries, Coimbatore       |
| 3                                                         | Materials                            | Santhi casting works, Coimbatore     |
| 4                                                         | CNC machines                         | RABWIN Industries, Coimbatore        |
| Department of Mechatronics                                |                                      |                                      |
| 1                                                         | Robotics                             | Maavan Aeronautics, Chennai          |
| 2                                                         | Sensor & Instrumentation             | Innovative Solution, Tirupur         |

### 3.5.4 How does the College encourage the faculty to utilize the expertise for consultancy services?

- The college encourages promoting the consultancy by bridging the industry/companies.

- Based on the field of expertise, the faculty members are encouraged to carry out the consultancy by using the licensed software, hardware facilities and Infrastructure available in the college.
- The college encourages the faculty members to involve in consultancy work by giving cash awards and appreciation certificates. On duty leaves are provided to facilitate their visit to the industries.
- The college conducts meetings of consultancy cell which forms as a platform where the expertise of the faculty will be exposed to the experts from industry and academics. Similarly the interaction, during external and internal workshops, seminars and guest lectures helps the faculty to enhance their expertise in providing consultancy.
- Faculty members are encouraged to utilize the laboratory equipment, and also facilitates the logistics and extends in-house expertise to the clients.

### 3.5.5 List the broad areas of consultancy services provided by the College and the revenue generated during the last four years.

The consultancy services provided by the college in various fields such as Structural Design, Testing and Characterization of Materials, Design and Development of Processes / Products and Software Development. The total revenue generated in last 4 years is Rs 7.99 Lakhs. Some consultancy services are provided on good will basis.

#### Revenue generated by the consultancy services for last four years:

| Name of the Department                 | Broad area of Consultancy Service                                                   | Revenue generated for last four years in Rs |
|----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|
| Civil Engineering                      | Structural Design Consultancy                                                       | 8700                                        |
|                                        | Building Material testing                                                           | 16200                                       |
|                                        | Quality Inspection                                                                  | 5800                                        |
|                                        | Water Quality Testing                                                               | 5500                                        |
|                                        | Soil Investigations                                                                 | 36650                                       |
| <b>Revenue generated</b>               |                                                                                     | <b>72850</b>                                |
| Electrical and Electronics Engineering | The development of 3phase oil filled submersible motor for borewell applications    | 110000                                      |
|                                        | Development of Smart Controller for open well submersible pump set                  | 125000                                      |
| <b>Revenue generated</b>               |                                                                                     | <b>235000</b>                               |
| Mechanical Engineering                 | Trans esterification Process                                                        | 1000                                        |
|                                        | Formulation of composition of Steel for the Spur Gear used in over crane mechanism. | 5000                                        |
|                                        | The Brake Drum MCI Made for Simpson Automotive company.                             | 25000                                       |
|                                        | Production planning and cycle time reduction in CNC machines                        | 25000                                       |
| <b>Revenue generated</b>               |                                                                                     | <b>56,000</b>                               |

|                                            |                                       |               |
|--------------------------------------------|---------------------------------------|---------------|
| Electrical and Instrumentation Engineering | Automation                            | 5000          |
|                                            | Embedded Systems                      | 30000         |
|                                            | <b>Revenue generated</b>              | <b>35000</b>  |
| Electronics and Communication Engineering  | PCB Designing                         | 23000         |
|                                            | <b>Revenue generated</b>              | <b>23000</b>  |
| Information Technology                     | Website creation and Billing software | 15000         |
|                                            | Mobile App Development                | 25000         |
|                                            | Defect analysis modules               | 25000         |
|                                            | Controlling Software                  | 50000         |
|                                            | <b>Revenue generated</b>              | <b>115000</b> |
| Mechatronics Engineering                   | Robotics                              | 5850          |
|                                            | Sensor & Instrumentation              | 6500          |
|                                            | <b>Revenue generated</b>              | <b>12350</b>  |
| Computer Science and Engineering           | Android App Development               | 100000        |
|                                            | Web Applications                      | <b>150000</b> |
|                                            | <b>Revenue generated</b>              | <b>250000</b> |
| <b>Total Revenue generated</b>             |                                       | <b>799200</b> |

### 3.6 EXTENSION ACTIVITIES AND INSTITUTIONAL SOCIAL RESPONSIBILITY (ISR)

#### 3.6.1 How does the College sensitize the faculty and students on Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience.

The College sensitizes its faculty members and students on Institutional Social Responsibility activities through structured forums like NSS, NCC, YRC, RRC, SNS Social Responsibility Initiatives (SNS S.R.I) and Clubs and Societies. Departments also undertake community and social beneficial activities like organizing community development programmes; Employment oriented training, Entrepreneurship Development, etc.

Social responsibility programmes are designed in such a way that the students get adequate exposure to the realities of life and realize their responsibilities. All students under autonomous regulation are entitled to enrol in any one of the extension activity clubs such as NCC, NSS, YRC, RRC, etc and earn at least one non academic credit by undergoing 24 hours of training. The training activities will normally be after class hours during weekends, and during vacation period. Every student shall put in a minimum of 75% attendance in the

training and attend the camp compulsorily.

The following are some of the Social awareness programmes conducted to create impact on campus experience of students:

- Blood donation camps in connection with local hospitals
- Environmental protection rallies
- Road safety and awareness rallies
- Health awareness programmes
- Sapling Plantation programmes
- Career development programmes for school students
- Women empowerment programmes
- Flood relief camps
- AIDS awareness programmes
- Youth and Women empowerment programmes
- Swachh Bharat Abhiyan (Clean India Mission)
- International YOGA day
- Awareness on Green environment
- Voting awareness programmes

In the autonomous regulation the students have to earn credits compulsorily by attending extension activities.

The details of extension activities and ISR are given in **Annexure 3.6**.

### **3.6.2 How does the College promote College-neighborhood network and student engagement, contributing to holistic development of students and sustained community development?**

The college through its extension programmes establishes contact with the neighbourhood communities and interacts with them regularly. These activities have resulted in sharing of expertise and exploring opportunities for social interventions benefit to the community and society at large.

The NSS, YRC and RRC units of our college regularly conduct free camps and programmes like free eye and dental camps, clean environment camps, sapling plantation programmes, etc., in the nearby villages. These are beneficial to the villagers who would not have received these facilities otherwise.

The institution with help of Sri SNS Charitable Trust has been conducting various activities at large, aimed at the improvement of the society, under the umbrella - SNS Social Responsibility Initiatives (S.R.I). The contributions by SNS SRI are as follows:

- Recognitions for the Industry by instituting various awards like Best CEOs, Best HRs in various fields.



- Recognitions for Educators by instituting various awards like Best Teacher Award
- Improving the quality of Education for School leaving children through Performance Evaluation Test (SNS PET), Career Guidance, coaching to take National Defence Academy (NDA) examinations and so on.

The community has given a very good response to SNS SRI activities and have benefitted in large numbers. The details for college neighbourhood collaboration are given in **Annexure 3.7**

### **3.6.3 How does the College promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?**

Activities of the NSS, NCC, RRC, YRC and other Clubs and Societies are facilitated by the respective faculty advisors. Trained NCC and NSS Officers have been appointed by the College for effective monitoring and implementation of the activities. The institution has promoted a club called Act On Dream (AOD) to motivate students and faculty members to involve in various extension activities. The participants are highly appreciated and given on duty leaves. The college authorities constantly encourage the faculty members and students to participate in the extension activities in large numbers.

#### **Extension activities in collaboration with college for past 4 years:**

| Year      | No of outside activities participation |     |     |     |
|-----------|----------------------------------------|-----|-----|-----|
|           | NCC                                    | NSS | YRC | RRC |
| 2012-2013 | 2                                      | 5   | 3   | 1   |
| 2013-2014 | 2                                      | 7   | 3   | 1   |
| 2014-2015 | 3                                      | 14  | 2   | 0   |
| 2015-2016 | 5                                      | 9   | 5   | 0   |

### **3.6.4 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under-privileged and most vulnerable sections of society?**

Many social surveys, research and extension works are carried out in the college .The following table gives few examples:

#### **Extension activities promoted by college for past 4 years:**

| Name of the event                           | Objective                                                   | Beneficiaries | Skills / Values developed |
|---------------------------------------------|-------------------------------------------------------------|---------------|---------------------------|
| Awareness and Prevention of Dengue- (Rally) | To spread awareness among public about the dengue outspread | Public        | Civic responsibilities    |

|                              |                                                                    |                     |                         |
|------------------------------|--------------------------------------------------------------------|---------------------|-------------------------|
| World Glaucoma awareness     | To spread awareness among public about the glaucoma                | Public              | Civic responsibilities  |
| Medical Camp                 | To make public health concise                                      | Public and students | Civic responsibilities  |
| Blood Donation Camp          | To create responsible citizens                                     | Public              | Helping tendency        |
| Free Dental Camp             | To benefit public about their dental health                        | Public              | Health conciseness      |
| Seminar on “YOGA”            | To create awareness about the health benefits of yoga              | Students            | Social Awareness        |
| Tree Plantation Camp         | To spread awareness about the importance of trees in the ecosystem | Students & Public   | Environmental awareness |
| Free Eye Camp                | To benefit public about their eye health                           | Public              | Social responsibilities |
| 7 Days NSS Special Camp      | To keep our surroundings clean                                     | Public              | Social responsibilities |
| Child Labour and Child Abuse | To spread awareness about menace of child labour and child abuse   | Public              | Social responsibilities |
| Orphanage visit              | To help and motivate orphaned children                             | Orphanage children  | Social responsibilities |

The details on social survey, research and extension activities promoted by college are given in **Annexure 3.8**.

### **3.6.5 Give details of awards / recognition received by the College for extension activities / community development work.**

**Awards and recognition received for community development work:**

| <b>Awarded to</b> | <b>Name of the Award/ recognition</b>           | <b>Name of the extension Activity/ Community Development work/award details</b> |
|-------------------|-------------------------------------------------|---------------------------------------------------------------------------------|
| YRC               | Best activity award by Indian Red Cross Society | For making donation to HIV infected girl children                               |

|                                 |                                                        |                                                                                                                                                   |
|---------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| L/Cpl.G.Sangeeth                | Participated in prime minister rally 2016 at New Delhi | NCC                                                                                                                                               |
| L/Cpl.T.Kirubhalaksmi           | Participated in prime minister rally 2016 at New Delhi | NCC                                                                                                                                               |
| Mr.B.Shakthi                    | Guinness and Limca book of records                     | Most number of forward and backward body skips in one minute and 30 seconds to create awareness about the importance of exercise to stay healthy. |
| Mr.AravindanV<br>Mr.Hariharan R | Limca Record                                           | Made a walking image of Mahatma Gandhi with his cane using one Rupee coins for the social cause of national integrity.                            |

### **3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the College, comment on how they complement students' academic learning experience and specify the values and skills inculcated?**

The objective of participation in the extension activities by students is to make them perceptive to the social realities and develops a holistic outlook about the social issues which definitely adds significance to their academic learning. In the process of involving themselves in such activities, the positive values of life like kindness, broadminded, respect and compassion for fellow beings get inculcated and make their life meaningful and valuable in the long run. Various extension activities are organized to enhance their knowledge, skill and attitude of the students. Developing teaching skills, technical skills, interpersonal skills, leadership and teamwork skills, self employment and entrepreneurial skills and managerial skills through these extension activities complement their academic learning experience. As a whole the following skills and qualities are inculcated in the students.

- Responsible citizens
- Maintaining a clean and green environment
- Getting involved in diverse interest
- Making Contribution
- Time Management and prioritization
- Social Relationship skill
- Self Esteem & Ethics

The classroom teaching-learning environment gets strengthened by these activities. The features and traits like extempore expression, speech fluency, co-ordination & communication, adjustments, etc, get empowered with extension activities. These activities enable the students to express themselves freely. Inculcate the values of co-operation. It is a means of developing skills and competence. Different activities have their own significance

i.e. Debate helps to generate ideas and giving reasons and counter-reasons. Sometimes, learning-teaching become monotonous; this can be changed into pleasant atmosphere by participating in extension activities.

Students get inter-mingled with different peer groups during these activities which satisfy the needs of socialization, self-assessment and self-identification. These activities require sacrifice and control which ultimately helps in grooming the balanced personality. Field trips, travelling, and tour help to know about other places, people, customs and cultures. These activities provide the opportunities to adjust themselves with other people. It helps in the proper channelization of physical health. To conclude these activities provide motivation for learning.

**3.6.7 How does the College ensure the involvement of the community in its outreach activities and contribute to the community development? Detail the initiatives of the College which have encouraged community participation in its activities.**

- The local community are consulted in prior during all the NSS, YRC and SNS S.R.I programmes in the neighbourhood village. During such consultations, the community leaders highlight the requirements from their side. Based on these requirement activities are organised by NSS unit.
- The Heads – Village Administrative Officer, the Panchayat President are invited to participate in community initiatives taken up by the NSS team during the one week rural camp every year in the nearby villages. This was done based on consultation with local people.
- A bus shelter in Vazhiyampalayam pirivu was constructed and a road from Sathy main road to Vazhiyampalayam is laid and maintained with approval from corporation.
- A fund raiser programme was organized by the institution to help the physically challenged people for Artificial Peg leg by conducting a dance program in association with ADS Ooty Girls dance team.
- During the free eye camps, free dental camps, free sapling plantation programmes, Clean India mission, etc the community are consulted frequently and their input are sought at before conducting the program.
- A free hospital is run by the SNS charitable trust for the benefit of students and local community.

**3.6.8 Does the College have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?**

Yes. The college through various clubs tracks the student's involvement in various social movements and the activities are mentored by the faculty members.

Within the tutor ward system a target form is maintained by the tutor. The target for each student for the participation of various extra and co curricular activities are set at the beginning of the academic year. The participation of these students in these activities will be monitored and encouraged by the tutor and class advisor and is also recorded in the Green

card of the students which is especially maintained by the tutor of every student. These participations are also tracked for considering the best out going student award. All these initiatives encourage the student's participation in large numbers for the various movement activities that promote citizenship roles

### **3.6.9 Give details on the constructive relationships (if any) with other institutions in the nearby locality in working on various outreach and extension activities.**

The college has developed good relation with other institutes in the nearby locality while working on various outreach and extension activities.

Some of the organizations are:

- Vasan Eye Hospital
- Vasan Dental Hospital
- Sankara Eye Hospital
- KG hospital
- Mahindra Finance
- KMCH
- Coimbatore City Corporation
- Siruthuli-An NGO working for water conservation
- Indian Red Cross society
- VER Association
- Print Media (Times of India)

Blood donation camps are regularly organized and the emergency calls for requirement of blood from various hospitals like, Sri Ramakrishna Hospital, Kuppusamy Naidu Hospital, Ganga Hospital, KMCH and Government Hospital are responded immediately. The faculty and student volunteers enthusiastically come forward to donate blood during emergency.

### **3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.**

**Award and recognition received for community development work:**

| <b>Awarded to</b> | <b>Name of the Award/<br/>recognition</b>              | <b>Name of the extension Activity/<br/>Community Development<br/>work/award details</b> |
|-------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------|
| YRC               | Best activity award by Indian Red Cross Society        | For making donation to HIV infected girl children                                       |
| L/Cpl.G.Sangeeth  | Participated in Prime Minister rally 2016 at New Delhi | NCC                                                                                     |

|                                 |                                                        |                                                                                                                                                   |
|---------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| L/Cpl.T.Kirubhalaksmi           | Participated in Prime Minister rally 2016 at New Delhi | NCC                                                                                                                                               |
| Mr.B.Shakthi                    | Guinness and Limca book of records                     | Most number of forward and backward body skips in one minute and 30 seconds to create awareness about the importance of exercise to stay healthy. |
| Mr.AravindanV<br>Mr.Hariharan R | Limca Record                                           | Made a walking image of Mahatma Gandhi with his cane using one Rupee coins for the social cause of national integrity.                            |

### 3.7 COLLABORATION

#### 3.7.1 How has the College's collaboration with other agencies impacted the visibility, identity and diversity of activities on the campus? To what extent has the College benefitted academically and financially because of collaborations?

The college regularly interacts with Academic institutions, Industries, Professional societies, Government organizations, Certification bodies, Regulatory authorities, and Consultants. These interactions are made effective within the College for enhancing Curriculum and Syllabus, improving Teaching-learning process, refining Administration methods, Developing research and consultancy activities, progressing in training and placement activities and so on.

#### Benefits of Collaboration with other agencies/organizations:

| S.No | Collaborating agency                                                           | Type of collaboration  | Benefits                                                                                                                                                  |
|------|--------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | National Institute for Technical Teachers Training & Research (NITTR), Chennai | Academic               | <ul style="list-style-type: none"> <li>Faculty development programme on class room presentation</li> <li>course plan preparation</li> </ul>               |
| 2    | Academicians/Professors from esteemed institutions                             | Academic               | <ul style="list-style-type: none"> <li>Curriculum</li> <li>Syllabus framing</li> <li>Guest lectures and seminars</li> <li>Research Publication</li> </ul> |
| 3    | British Council Library & Cambridge University                                 | Academic               | <ul style="list-style-type: none"> <li>Certification on Proficiency in English Language</li> </ul>                                                        |
| 4    | Students Chapters of Professional Bodies: IEEE,                                | Academic/<br>Financial | <ul style="list-style-type: none"> <li>Short-term training programme for the academic</li> </ul>                                                          |

|   |                                                                     |                        |                                                                                                                                                                                                                                              |
|---|---------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | ISTE, IETE CSI                                                      |                        | excellence <ul style="list-style-type: none"> <li>• Organizing technical events</li> <li>• career development opportunities</li> </ul>                                                                                                       |
| 5 | Industry Associates / Trade Bodies                                  | Academic/<br>Financial | <ul style="list-style-type: none"> <li>• Industrial visits and internship for students</li> <li>• Curriculum framing based on real time industrial applications</li> <li>• Placement activities for student in leading industries</li> </ul> |
| 6 | Banks: Central Bank and Karur Vysya Bank                            | Financial              | <ul style="list-style-type: none"> <li>• Implementation of on-line payment of salary to employees and fees transaction for students</li> </ul>                                                                                               |
| 7 | National programme on Technology Enhanced Learning (NPTEL), Chennai | Academic               | <ul style="list-style-type: none"> <li>• Course materials on Core Engineering, Science and Humanities</li> </ul>                                                                                                                             |
| 8 | Kyungpook National University, South Korea                          | Academic               | <ul style="list-style-type: none"> <li>• Training</li> <li>• Workshops</li> <li>• Seminar</li> <li>• Faculty , Student Exchange</li> </ul>                                                                                                   |

Academic collaboration with industries and other universities resulted in joint publications.

### 3.7.2 Mention specific examples of, how these linkages promote

#### Curriculum development:

The college has been conferred with autonomous status from the year 2013- 2014 by Anna University. The composition of members for Board of studies included faculty members from reputed institutions and leading industries who are responsible for framing the curriculum. In the curriculum few courses are exclusively framed in consultation with MOU signed industries to meet their current requirements for making the graduates industry ready from day one onwards.

The following are some of our renowned experts from industries who have been members of various boards.

1. P.Ganesh Kumar, Software Architect, Incense Technologies. Chennai.

2. K.P.Milton, Deputy General Manager, Instrumentation Limited, Palakad
3. Dr.T.Anbalagan, Software Architect, Robert Bosch. Coimbatore.
4. Dr.L.S.Jayagopal, Managing Director, Mithran structures. Coimbatore.
5. Mr.Sathish, Project Manager, AXIS Global Automation. Coimbatore
6. Mr.Sumeet Jain, Manufacturing Engineer, Rolls-Royce India Pvt Ltd. Bangalore
7. Mr.S.Laxmanan, Precitron Ltd. Coimbatore.
8. Mr.P.Mohanraj, MM gears. Coimbatore
9. Mr.G.Hemanand, Director-Client Services, V&D Technologies Pvt Limited, Coimbatore.
10. Mr.K.Jegadeeshwaran, Business Development Manager, URC Infotech Pvt Limited, Erode
11. Mr.P.Mohan Raj, Director, MM Gears, Coimbatore
12. Mr.Leo Sarni Vincentraj, M.D, AV properties India Ltd, Coimbatore.

### **Internship, On-the-job training:**

Industries provide internship and On-the-job training to the students to help them to get the exposure of current trends and practices existing in industries. Hands- on -training are given to students and faculty members using their advanced tools and equipments. Students are motivated to undergo internship/on-the-job training during vacation.

The following are some of the companies which offer internship/on-the-job training for our students:

- Nexus Global Solutions
- Technofit
- Hill Tiger
- HCL Infosystems
- Poras Technologies
- Hersenen Technologies
- SHLOK Information
- Technofit
- Lucid Technologies
- UNIQ Technologies
- CG Transcribe Solutions
- BSNL
- Rabwin Industry

### **Faculty exchange and development**

Interaction of faculty members with the industry creates a platform for learning advanced tools and practices in the industry. Faculty members regularly visited various academic institutions and industries regularly to share and enhance their knowledge and to equip the students in the relevant fields. The following table gives details of such interactions:



### Outcome of Faculty exchange program with other Institutions

| Name of the Faculty with Designation | Name of the Departments          | Name of the Collaborated Industry/ Institution | Outcome of the Exchange                                                           | Duration |
|--------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------|----------|
| Mr.M.Udhayamoorthi,<br>Asst. Prof    | Information Technology           | INFOSYS,<br>Mysore                             | Knowledge sharing and research                                                    | 1 Week   |
| Mr.S.Kannan,<br>Asst. Prof           | Computer science and Engineering |                                                |                                                                                   |          |
| Mr.C.Mageshkumar,<br>Asst. Prof      | Information Technology           | Tech Mahindra,<br>Chennai                      | FEP – Train the Trainers(Knowledge gathered on Importance of Maths in Curriculum) | 3 Days   |
| Ms.G.S.Gopika, Asst.Prof             | Computer science and Engineering |                                                |                                                                                   |          |
| Ms.M.Nandhini,<br>Asst. Prof         | Information Technology           | Lucid Technologies,<br>Chennai                 | FDP - Knowledge gathered on SQL                                                   | 1 Week   |
| Mr.S.Vinoth kumar,<br>Asst. Prof     | Computer science and Engineering | Kyungpook National University                  | Knowledge sharing and research                                                    | 15 days  |
| Mr.S.Kannan<br>Asst. Prof            | Computer science and Engineering | Kyungpook National University                  | Knowledge sharing and research                                                    | 15 days  |
| Mr.C.Chandru Vignesh<br>Asst. Prof   | Computer science and Engineering | Kyungpook National University                  | Knowledge sharing and research                                                    | 15 days  |
| Mr.A.Christopher paul<br>Asst. Prof  | Computer science and Engineering | Kyungpook National University                  | Knowledge sharing and research                                                    | 15 days  |
| Mr.C.Senthil Kumar,<br>Asst. Prof    | Information Technology           | INFOSYS,<br>Bangalore                          | FEP - Knowledge gathered on Big Data & Analytics                                  | 1 Week   |
| Mr.D.Prabakar,<br>Asst. Prof         | Computer science and Engineering |                                                |                                                                                   |          |
| Mr.M.Kalimuthu,                      | Information                      | INFOSYS,                                       | Knowledge gathered                                                                | 1 Week   |

|                                     |                                  |                                      |                                                                      |        |
|-------------------------------------|----------------------------------|--------------------------------------|----------------------------------------------------------------------|--------|
| Asst. Prof                          | Technology                       | Mysore                               | on Big Data & Analytics                                              |        |
| Mr.D.Prabakar,<br>Asst. Prof        | Computer science and Engineering |                                      |                                                                      |        |
| Mr.C.Maheshkumar,<br>Asst. Prof     | Information Technology           | INFOSYS,<br>Mangalore                | Knowledge gathered on Big Data & Analytics                           | 1 Week |
| Mr.D.Prabakar,<br>Asst. Prof        | Computer science and Engineering |                                      |                                                                      |        |
| Ms.K.Sangeetha,<br>Asst. Prof       | Information Technology           | INFOSYS,<br>Chennai                  | Knowledge gathered on Java, RDBMS, Software Engineering              | 5 Days |
| Ms.R.Monisha,<br>Asst. Prof         | Computer science and Engineering |                                      |                                                                      |        |
| Ms.M.Vaijayanthi,<br>Asst. Prof     |                                  |                                      |                                                                      |        |
| Ms.R.Monisha,<br>Asst. Prof         | Computer science and Engineering | INFOSYS,<br>Chennai                  | FDP on Foundation Programme 4.0                                      | 5 Days |
| Ms.M.Vaijayanthi,<br>Asst. Prof     |                                  |                                      |                                                                      |        |
| Ms.S.R.Janani,<br>Asst. Prof        | Computer science and Engineering | Angel College of Engg and Technology | Infosys campus connect programme                                     | 5 Days |
| Mr.C.B.Sivaparthiban,<br>Asst. Prof |                                  |                                      |                                                                      |        |
| D.Prabhakar,<br>Asst. Prof          | Computer science and Engineering | INFOSYS,<br>Bangalore                | Faculty Enablement Programme- Knowledge gathered on Bigdata Analysis | 5 Days |
| G.S.Gopika,<br>Asst.Prof            | Computer science and Engineering | Tech Mahindra                        | FDP                                                                  | 3 Days |

### Research, Publication:

Faculty members interact with the resource persons of industries and faculty members of other technical institutions to pursue their research work. This interaction helps them for publishing their research work in the relevant fields. Inter-disciplinary research publications

are carried out to strengthen the relationships with other institutions / department.

Total Number of Publications in International Journals/conferences in the last 4 years in association with outside academic institution and industries: 72

### **Consultancy, Extension activities**

Faculty members are encouraged to carry out consultancy services at various companies. Some of the areas where Consultancy Services were undertaken are:

- Testing and Characterization of Building materials and Structural Design
- Design and Development of Processes / Products and Software Development.
- Extension activities in collaboration with other organizations to organise society relevant progress like health camps, marathons, rally, etc. helps the students and faculty members to improve their social responsibility and also inculcates citizenship values in students.

### **Student placement**

The students are trained through career development programmes from their first year onwards .This career development has been included as a part of their syllabus and they have been monitored regularly based on their career skills. Also training has been given based on the latest demands by the IT and Core industries, which in turn helps them to get placed in reputed industries

#### **Placement activities carried out by collaborated industries**

| <b>Year</b> | <b>Placement provided collaborated Industry</b> | <b>No. of students Placed through MOU signed companies</b> | <b>Average Salary</b> |
|-------------|-------------------------------------------------|------------------------------------------------------------|-----------------------|
| 2012-13     | Tech Mahindra, Chennai                          | 09                                                         | 3 Lakhs/Annum         |
| 2013-14     | Tech Mahindra, Chennai                          | 22                                                         | 3 Lakhs/Annum         |
|             | Dev Solar                                       | 1                                                          | 1.20 Lakhs/Annum      |
| 2014-15     | Tech Mahindra, Chennai                          | 49                                                         | 3 Lakhs/Annum         |
|             | Dev Solar                                       | 6                                                          | 1.20 Lakhs/Annum      |
|             | Smirthi Constructions, Coimbatore               | 2                                                          | 1.20 Lakhs/Annum      |
|             | Krishna associates, Coimbatore                  | 7                                                          | 1.44 Lakhs/Annum      |
|             | Sri Mahima Construction, Coimbatore             | 2                                                          | 1.44 Lakhs/Annum      |
|             | Ultra Ready Mix Concrete, Coimbatore            | 2                                                          | 1.44 Lakhs/Annum      |
|             | NIIT, Coimbatore                                | 2                                                          | 1.44 Lakhs/Annum      |

|           |                                     |    |                  |
|-----------|-------------------------------------|----|------------------|
|           | Spiral Technologies                 | 1  | 1.5 Lakhs/Annum  |
|           | B Positive Technologies, Coimbatore | 12 | 1.80 Lakhs/Annum |
|           | P R Industries                      | 1  | 1.38 Lakhs/Annum |
| 2015-16   | Tech Mahindra, Chennai              | 36 | 3 Lakhs/Annum    |
|           | B Positive Technologies, Coimbatore | 9  | 1.80 Lakhs/Annum |
|           | Rabwin industries, Coimbatore       | 2  | 1 Lakh/Annum     |
|           | Laxmi Gears, Coimbatore             | 2  | 1.80 Lakhs/Annum |
|           | Accord Technocare /Robotech         | 1  | 1.54 Lakhs/Annum |
|           | Milltex Engineering Pvt Limited     | 5  | 2.25 Lakhs/Annum |
|           | Axis Global Automation              | 6  | 1.5 Lakhs/Annum  |
|           | Accent Technosoft,Coimbatore        | 2  | 1.2 Lakhs/Annum  |
| 2016-2017 | Tech Mahindra, Chennai              | 56 | 3.0 Lakhs/Annum  |
|           | Naga Welders,Chennai                | 2  | 1.75 Lakhs/Annum |
|           | Linga Technologies                  | 1  | 1.75 Lakhs/Annum |
|           | B Positive Technologies, Coimbatore | 7  | 1.8 Lakhs/Annum  |
|           | Image                               | 12 | 1.8 Lakhs/Annum  |
|           | Nettel                              | 7  | 1.8 Lakhs/Annum  |

**3.7.3 Does the College have MoUs nationally / internationally and with institutions of national importance/other universities/ industries/corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching-learning, research and development activities of the College?**

Yes. The college has signed totally 189 MoUs with both National and International Industries/Universities.

**The outcomes of the MoUs are**

1. Training for students & faculty
3. Collaborative Research
4. Project Internship for students
5. Joint Publications
6. Consultancy

The college has signed MOU with Kyungpook National University, South Korea to

develop and enhance teaching methodology by exchanging the faculty members between the institutions.

### **3.7.4 Have the College industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?**

The college has created excellent Infrastructure and laboratories for meeting the academic and research requirements. In addition to that the following specialized laboratories are established in collaboration with the industries.

#### **Specialized laboratories established by collaborated industries**

| <b>Name of the collaborated Industry</b> | <b>Specialized laboratories Established</b> | <b>Expected Outcomes</b>                                                                               |
|------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------|
| National Instruments                     | Virtual laboratories                        | Simulation Part of U G project is completed                                                            |
| Andes Technologies                       | IoT laboratories                            | Guest lectures, Seminars, Workshop, UG and PG project, Published in journal and conference Publication |
| Apex Technologies                        | Advanced process control laboratories       | Implementation Part of U G project is completed                                                        |
| Entuple Technologies                     | VLSI Research laboratories                  | FDP, Reputed Journal publication, UG and PG student Projects related to VLSI domain.                   |
| Mega Tech                                | Electric drives and control laboratories    | Consultancy work in the area of Shunt active filter and acts as a resource person for workshop         |

***Criterion IV***  
***Infrastructure and***  
***Learning Resources***

## **CRITERION IV**

### **INFRASTRUCTURE AND LEARNING RESOURCES**

#### **4.1. PHYSICAL FACILITIES**

##### **4.1.1 How does the College plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?**

The college ensures the adequate availability of physical infrastructure and facilities as per guidelines given by the AICTE, UGC and NBA. The college plans and ensures adequate availability of physical infrastructure for the technical development and skills enhancement of the students. The college is located in the heart of the city on the National Highway (NH-209), about 12 km from the Railway station and 10 km from the Airport and Central Bus stand. The college is spread over 10.13 acres, out of which approximately 60% is open area housing plants, trees and greenery. The college has planted approximately 841 plants, 285 trees in the campus and has lush green lawn at the center.

##### **Planning and Maintenance of the College Infrastructure**

Institution Development and Maintenance Cell (IDMC) is monitoring and maintaining the overall college campus infrastructures. The strategic plan prepared by the IDMC lays down the future perspective for creation & enhancement of Infrastructure to promote good teaching-learning environment. Elaborate presentation is made to the Board of Governors for approval and construction is then carried out as per the college policy.

##### **Academic Infrastructure**

College has developed a state of the art academic infrastructure in consultation with the management, principal and department heads. Every academic year the academic infrastructure facilities are enhanced to cater the needs of additional intake, introduction of new programmes and technology advancements. Adequacy, appropriateness and ease access of academic infrastructure facilities are ensured and monitored by the department infrastructure coordinator. Periodically reports are sent to the Principal and IQAC regarding infrastructure facilities. IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions.

The College is located in peaceful environment housing 62 classrooms, 30 Tutorial rooms, 96 Laboratories, 5 Workshops, 11 Seminar halls, an Internal Quality Assurance Cell, a COE office, an Auditorium, a Centralized library with reading halls, 13 Department Libraries, a Placement cell, 25 Staff rooms, 15 HoD/Dean rooms, a Research and Development cell and Industrial Institute Partnership cell. All rooms, auditorium, library and labs are well furnished and equipped with good quality furniture and fixtures. In addition to that audio – video enabled class rooms also available. Class rooms are equipped with LCD projectors, black and white board. The entire campus is Wi-Fi enabled with 24-hour internet availability in all rooms and hostel. Adequate faculty rooms, Director's chamber, Director's boardroom and faculty meeting halls are available. Audio – Video facilities are available adequately and major locations have air – conditioned facilities. Civil engineers are responsible for the design, construction and repairing works, Electricians are inspecting the electrical systems, equipments and components to identify hazards, defects, need for adjustment or repair and to ensure compliance.

## **Residential Infrastructure**

The college ensures availability of the residential infrastructure as per the norms laid by AICTE, UGC and Anna University. The college provides separate hostel facility for boys and girls with the capacity of 168 & 155 rooms respectively. In addition to that provides deluxe room facilities also for the students. College has the well-furnished separate block for guests and principal residence.

The College provides separate infrastructure facilities for co-curricular and extra-curricular activities like NSS, NCC, YRC, RRC and Various club activities.

The College has the well-furnished and equipped Non Residential Students Canteen, Canteen, Food Court, Doctor Room, Store Room and a Clinic (SNS Trust).

## **Sports and games Infrastructure**

The college has adequate and excellent sports and games infrastructure facility for training the students to compete college level, Zonal level, District level, State level and National level sports and games.

## **Other Infrastructure**

The college has student & staff mess, co-operative store, sports clubroom and ATM facility. The entire campus is Wi-Fi enabled with 24-hour internet availability in all rooms and hostel.

## **Optimum Utilization**

The college ensures optimal optimum utilization of all physical and infrastructural facilities in the following ways:

### ***Academic Infrastructure***

The optimal utilization of academic infrastructure is ensured by:

- Extending facilities for opening Library beyond working hour and holidays.
- Conducting Government competitive examinations on Sundays and other holidays.
- Organizing seminars, FDPs, Symposium, Cultural events, Conferences, etc., through proper bookings.
- Conducting training classes for Defence students, NCC Cadets, Project Expo, etc.,

### ***Residential Infrastructure***

The optimal utilization of residential infrastructure is ensured by:

- Providing free hostel facilities for students participating in Defence training, Project expo, Workshop, Seminar, Symposium, Conferences, etc.,
- Providing hostel facilities for inter college and district level sports meet participants.
- Extending accommodation facilities for Guests and other Faculty members for attending the various events/programs conducted by the college.

### ***Sports and games Infrastructure***

The optimal utilization of sports and games infrastructure utilization is ensured by:



- Providing sports facilities during early morning, evening hours for days scholars and hostel students.
- Providing Defence training for internal and external participants.
- Providing NCC training for students.

#### ***Other Infrastructure***

- The dispensary is opened on 24x7 basis.
- ATM operates on 365 days.
- Cooperative stores are opened beyond college hours.
- Cafeterias are opened beyond college hours.
- Security Office operates on 24x7 basis.

#### **4.1.2 Does the College have a policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.**

Yes. The college has well defined policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment.

The college has Institution Development and Monitoring Cell (IDMC) has the overall responsibility to maintain the campus, Audit meetings are conducted once in every six months to find out the difficulties and corrective methods are suggested to improve the college infrastructure.

Members of the committee include Principal, Dean/Civil, Dean/EEE, Dean/CSE, Dean/S&H and Industry members. The committee is responsible for prioritizing infrastructure needs and presenting them for management approval.

#### **Recent initiatives in the enhancement of infrastructure**

- Separate first year block with elevator facility
- COE block and amenity & extension activities block.
- ICT Enabled class rooms.
- Smart Class room.
- New seminar halls.
- Open auditorium.
- Indoor games auditorium.
- Principal quarters.
- New Laboratories. (15)
- Sufficient furniture is distributed to all the departments for both staff and students.
- Water doctor are installed in various blocks.
- New Play grounds (2).
- Defence Training Academy with outdoor training facility.
- Rain water harvesting.
- Approach road from National Highway to the college is widened and re-laid and maintained.

- Sewage treatment is upgraded to purify two lakhs liters of waste water for reusable in daily basis.

**Recent initiatives in the enhancement of infrastructure are shown in the following images/ pictures:**

CCTV cameras are placed in all strategic locations to ensure the safety and security of assets and students.



Chanakya Block



Library Block



First Year Block



COE block



Open Auditorium with seating  
Capacity of 6,000 viewers



Indoor Auditorium-Badminton court



Playground –Foot ball court



Playground-Volley ball



Playground-Basketball



Gymnasium



Defence Training Academy



Principal Quarters& Guest House





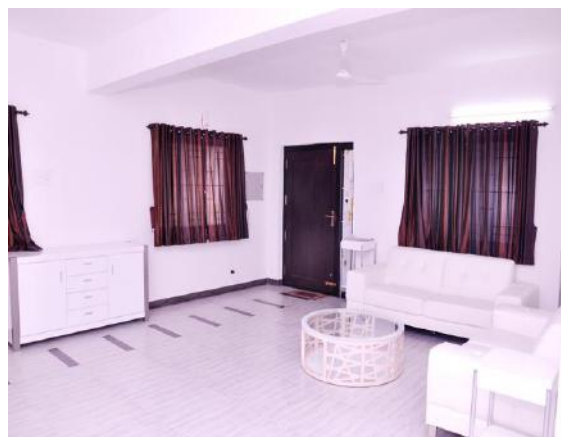
Admin Block Lobby



MBA Classroom



Students Deluxe room



Guest Room



Approach road from National  
Highway to the college



Sewage treatment plant

**4.1.3. Does the College provide all departments with facilities like office room, common room, and separate rest rooms for women students and staff?**

Yes. The College ensures that each department has adequate office rooms, common rooms and separate rest rooms for women students and staff.

| S. No. | Types of Facility                               | Size in Sq.m. |
|--------|-------------------------------------------------|---------------|
| 1.     | Common room for Girls students and Ladies staff | 184.00        |
| 2.     | Rest room for women students and Ladies staff   | 414.87        |

#### 4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of students/staff with disabilities?

To meet the requirements of students/staff with disabilities, the college has the following infrastructure facilities.

- Ramp
- Lift
- Wheel chair
- Navigation board
- Ground floor class room and Examination hall.
- Accommodation in hostel with an attached bath room facility.

#### 4.1.5 How does the College cater to the residential requirements of students? Mention

- ***Capacity of the Hostel & Occupancy***

Separate hostel facilities are available for both boys and girls with the capacity of 800 and 600 respectively.

Name of the blocks in the hostel

| Gender | Block Name       | Availability of rooms |
|--------|------------------|-----------------------|
| Male   | Vaigai Block     | 52                    |
|        | Siruvani Block   | 44                    |
|        | Mess Block       | 39                    |
|        | Additional Block | 25                    |
|        | Kitchen Block    | 08                    |
| Female | Bhavani Block    | 52                    |
|        | Kaveri Block     | 103                   |

- ***Recreational Facilities & Broadband Connectivity/ Wi-Fi Facility in Hostel***

The following facilities are available for catering to the residential requirement of the students:

- Deluxe room with and without AC
- 24 hours internet facility with Wi-Fi
- Dedicated computer lab facility
- Cooperative and stationery store
- Recreation room facilities
- Indoor game facilities
- Visitors room
- Television facilities
- Dispensary with doctor and medical assistant on 24\*7 basis
- Ambulance facility(In-house Ambulance facility)
- 108 facility(Government Ambulance facility)
- Hot water facility
- RO Water (24\*7)

- Gym
- Beauty parlor on Sundays at the ladies hostel
- Rooms with attached bath room



Dining Hall



Computer Room



TV Room



Outdoor Relaxing Place

#### **4.1.6 How does the College cope with the health related support services for its students, faculty and non-teaching staff on the campus and beyond?**

The college has the following health related support services for its students, faculty and non-teaching staff on the campus and beyond.

- Health center—One Doctor and one Nurse are available.
- Ambulance facility (In-house Ambulance with driver 24\*7)
- Government ambulance service
- Purified drinking water facility
- First aid kit in each laboratory and department
- Medical insurance facility for all the staff and student

- Life skill and yoga programmes for student and staff
- Health awareness programme by NSS, NCC and YRC
- Fire safety equipment and fire extinguisher placed at strategic locations.

#### **4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?**

The college focuses on overall personality development of students. To ensure this, a qualified physical director is appointed to take care of student development activities. The following infrastructure and special facilities provided for sports and cultural events. Physical educator is to encourage, motivate the students to be active. Physical educator evaluates the student's performance, attitude, level of physical fitness and monitoring disciplinary activities. Additionally Basket-ball and Volley ball coaches also available to train the students to perform well in competitions.

##### **Indoor sports facilities:**

The indoor game at our college provides facilities for Table Tennis, Shuttle, Badminton courts, chess, carom and other indoor games. A number of latest equipments are available for the students' use and the gym functions from 5.30 a.m. onwards.

| S. No. | Facility                | No. of Fields | Play area (Sq.ft) |
|--------|-------------------------|---------------|-------------------|
| 1.     | Shuttle badminton Court | 5             | 557               |
| 2.     | Chess                   | 7             |                   |
| 3.     | Carom                   | 6             |                   |
| 4.     | Table Tennis            | 4             |                   |

##### **Outdoor sports facilities:**

| S. No. | Facility             | No. of Fields | Play area (Sq.ft) |
|--------|----------------------|---------------|-------------------|
| 1.     | Basket-Ball court    | 1             | 12938             |
| 2.     | Volley ball court    | 2             | 2790              |
| 3.     | Ball badminton court | 2             |                   |
| 4.     | Kho-kho court        | 1             |                   |
| 5.     | Cricket court        | 2             | 1226              |
| 6.     | Hand ball court      | 1             | 8559              |
| 7.     | Kabadi court         | 1             | 3620              |
| 8.     | Football 5's court   | 1             | 21819             |
| 9.     | Boys Gym             | 1             | 21305             |
| 10.    | Girls Gym            | 1             | 9684              |
| 11.    | Kho-Kho court        | 1             | 12950             |

##### **Act on Dream Club (AOD) facilities:**

##### **The following facilities are available for the AOD clubs:**

- Photography and dramatics room
- Dance practice room
- Musical room
- Multimedia lab



**The following members are the in-charges for respective clubs and events:**

| AOD CLUB INCHARGE LIST        |                   |                |           |                      |          |
|-------------------------------|-------------------|----------------|-----------|----------------------|----------|
| NAME OF THE CLUB              | FACULTY IN-CHARGE | SECRETARY NAME | CLASS     | JOINT SECRETARY NAME | CLASS    |
| <b>TEAM HYPE</b>              |                   |                |           |                      |          |
| Photography                   | Sangamithraa.P.B  | Karthik.N      | III Auto  | Neelakandan.G        | II Mech  |
| Dramatics                     | Nithya.J          | Monali.G       | III ECE   | Janani.S.E           | II CIVIL |
| Music                         | Mythili.A         | RijoVarghese.K | III CSE   | BalajiRaju.M         | II CSE   |
| Dance                         | Mythili.A         | Shruthi.S      | III Aero  | Deepak.R             | II ECE   |
| Drawing                       | Sangamithraa.P.B  | Shasaang.R     | III ECE   | Sharan Kumar. R      | II Auto  |
| MUN                           | Anitha.R          | Varshini.A     | III CSE C | Harishankar. S.P     | II MCT   |
| Literary Society              | Dhanya.C          | Anisha.A       | III EIE   | Swetha . S. Ram      | II CSE   |
| Tamil Mandram                 | Shenbagarajan.P   | Shamile.G.M    | III EEE   | Aparna.M             | II CSE   |
| <b>RANDOM ACT OF KINDNESS</b> |                   |                |           |                      |          |
| Green Campus                  | Senthil.J         | Vivekanandan   | III EIE   | Kavya.N              | II EEE   |
| Street Play/Flash Mob         | Nithya.J          | Avinash.K      | III MCT   | Saravanasudan        | II Mech  |
| Awariness Campaign            | ArunKumar.P       | Bhuvaneswari.R | III EIE   | SuriyaNarayanan.V    | II Mech  |
| Acts of Charity               | Nithya.J          | Akash.N        | III IT    | Darshana             | II ECE   |

### Cultural Events

The college encourages cultural activities and paves a way for the students having talents by providing opportunities in various cultural events through constituting respective club and act on dream club. Act on a Dream club, over the past two years has been instrumental in helping the students to progress towards their dreams.

**The success of AOD can be seen in the following clubs:**

- **MUN Club:** The number of MUNners has increased from 10 to more than 50. Hosting of the maiden edition of SNS MUN was done during the academic year 2013 – 2014. Members has attend the meetings with external delegation MUNs ranging from IITBHU MUN, Young Leaders Global Conclave 2015, ANOKHA Leadersmeet’15, SSN MUN 2014, VIT MUN 2014, SIMUN 2014, to name a few.
- **Graphics Club and Web Designing club:** The members of the club are helped thoroughly understand how to handle graphics and to design websites with a hands-on and practical method.
- **Foreign Language:** Mandarin was taught by a student of IV ECE,(Ms.Vaishnavi) and was found to be very useful for the other students through the Foreign Language club. German also taught to the students by other students.
- **App Development club:** Fully functional applications were developed and implemented through this club.
- **Dance Club:** The students of the Dance Club participated in external events held in reputed institutions like NIT-Trichy.
- **Photography Club:** A workshop on Photoshop was organized by the club in collaboration with a Rotaract club.



- **Awareness Campaign:** Students of the club collaborated with the students of the Department of Electronics and Instrumentation Club and participated in an awareness rally.

### **Sports - National Level**

Students achieved in the national level competition of Erattai Kambu Veechu and Kambu Sandai. The college has a structured sports committee to carry out various inter and intra college sports events and attracts many sports people to the campus. College provides budgetary support for participation in sports and cultural activities. College attracts exceptional sports talent students by special provisions.

## **4.2 LIBRARY AS A LEARNING RESOURCE**

Vivekananda Library serves as a learning resource center for academicians and students. The information and information carriers are produced, disseminated, selected, acquired, used, organized, maintained, and managed. The Library is housed in a separate, fully furnished block and has adequate stock of books, magazines, National and International journals, e-journals like IEEE, DELNET etc., which are managed by the chief Librarian through the library Automation process.

### **4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?**

Yes, the College has a Library Advisory Committee and its composition is given below.

| <b>Name</b>          | <b>Designation</b> | <b>Position</b> |
|----------------------|--------------------|-----------------|
| Dr.S.ChenthurPandian | Principal          | Chairman        |
| Dr.S.Kandasamy       | Dean/ Civil        | Convener        |
| Dr.M.Palanisamy      | Chief Librarian    | Co-convener     |
| All HoDs and Deans   | HoD/Dean           | Members         |
| Mr.A.Arunpandiyan    | Student - IV CIVIL | Student Member  |
| Mr.S.Sudharsan       | Student - IV CSE   | Student Member  |

The committee meets once in a year to review the library activities, developments and future plans.

Functions of the Library Advisory Committee:

1. To augment the facilities of library.
2. To review and recommend the proposed budget.
3. To scrutinize and facilitate the requisitions for text books, new arrivals and journals etc., from each department.
4. To appoint a stock verification committee and examine the report of the stock verification committee.

5. To review user feedback and decide measures to be taken for the improvement of the library.
6. To ensure adequacy of resources and ease of access to library users.

**Significant initiatives implemented by the committee:**

As per feedback from the users and suggestion from the committee members the following actions were taken:

- NPTEL, e-sources, Audio Visual room made available during the academic year 2014-15.
- Wall mounted systems (15 No.s) for browsing purpose are installed during the academic year 2015-16
- Surveillance cameras fixed to monitor the library activities.
- In order to help the students, to groom themselves towards the placement activities, 7300 exclusive placement books are made available.
- Best library user award for both students and faculty members are being given every year.
- Library is providing both General & Business news papers on daily basis in the classrooms for improving the students learning process and also to update themselves in current affairs and General knowledge.

**4.2.2 Provide details of the following:**

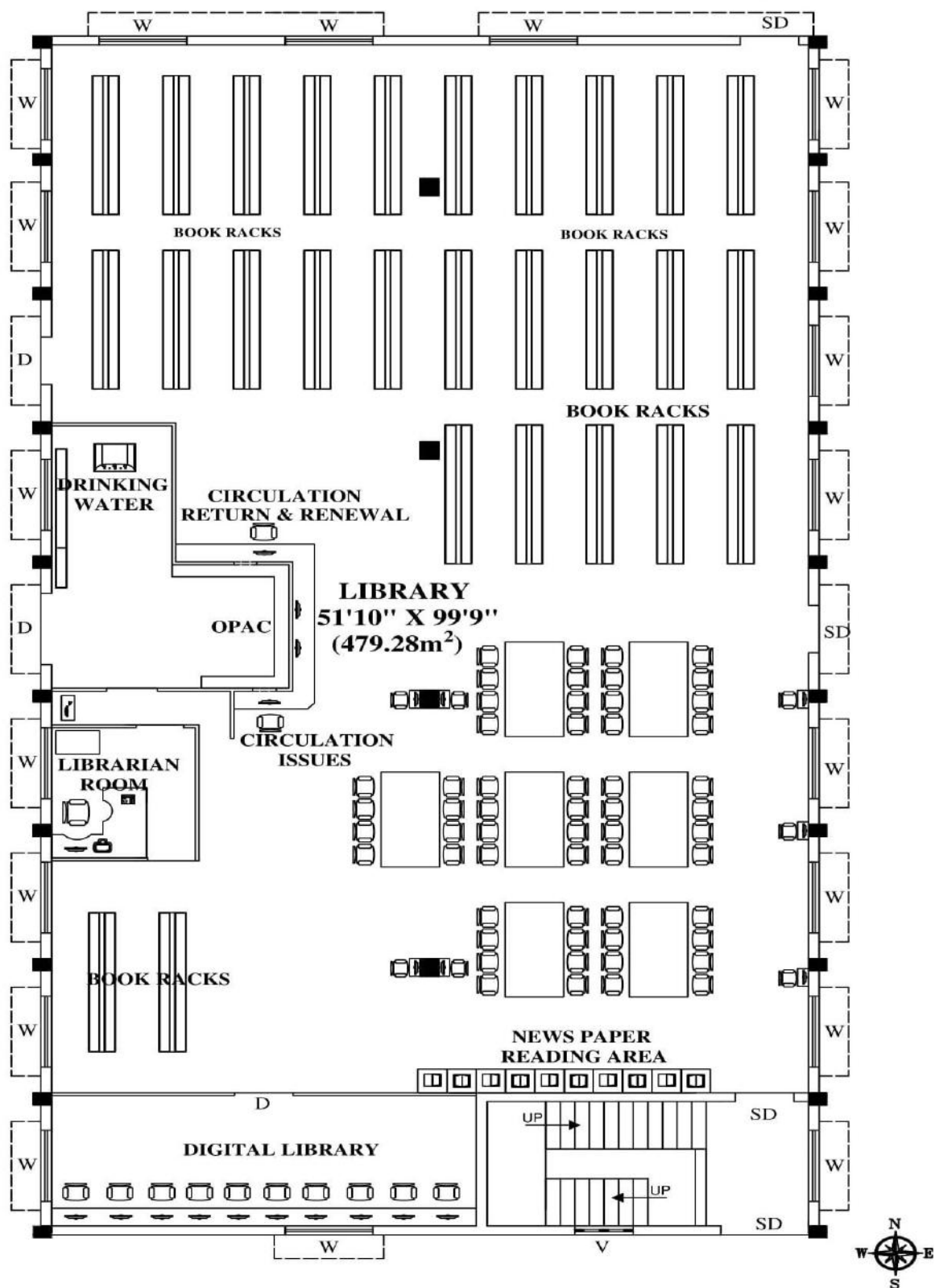
|                                         |                    |
|-----------------------------------------|--------------------|
| Total area of the library (in Sq. Mts.) | 1400Sq.Mts         |
| Total seating capacity                  | 260                |
| Working hours<br>(Monday to Saturday)   | 8.30 am to 6.30pm  |
| Holidays (Except Sundays)               | 9.00 am to 5.00 pm |

**Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**

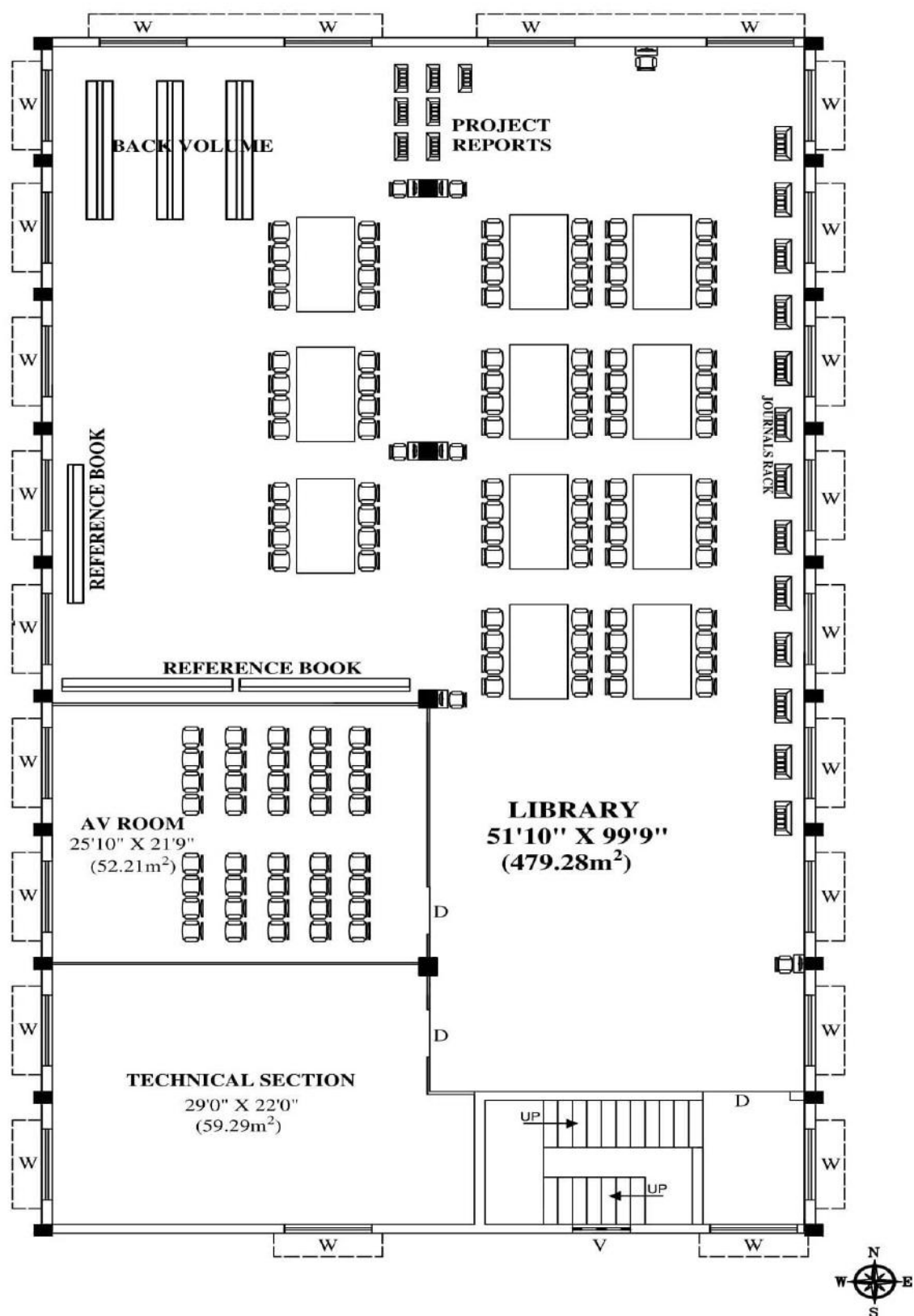
The two major sections of the library are housed in the Ground floor and First floor.

| Sections     | Details of facility                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ground Floor | OPAC, Book Section, Circulation counters, Reprography, Digital Library, News Paper Reading Section, Non Book Materials, New arrival Display, Daily returns |
| First Floor  | Reference Section , Journal , Back Volumes, Project Reports, PhD thesis, BOG Records, AV Room                                                              |
| Second Floor | Reading Section                                                                                                                                            |

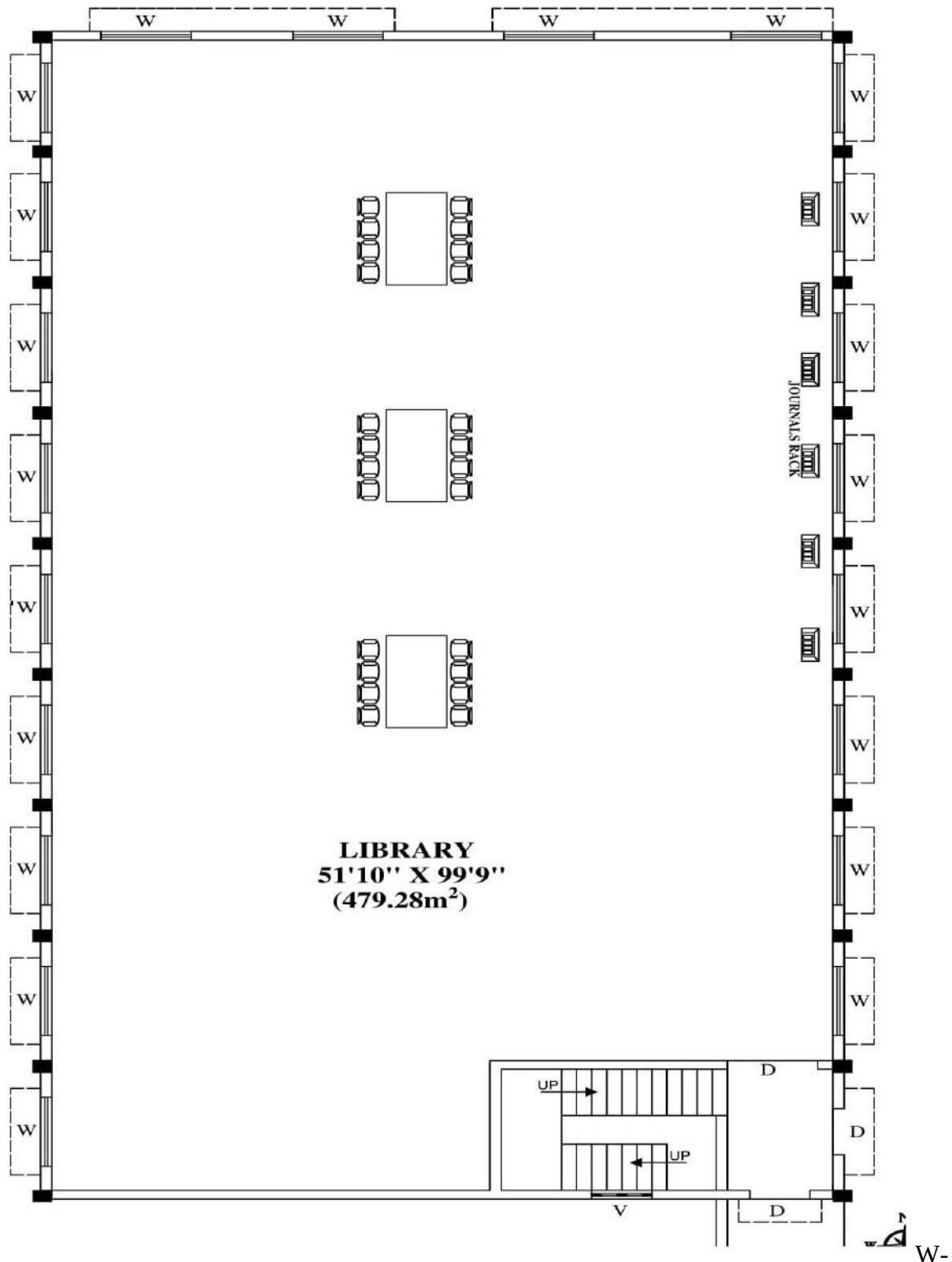
# VIVEKANDNDHA LIBRARY GROUND FLOOR PLAN



## VIVEKANDNDHA LIBRARY FIRST FLOOR PLAN



## VIVEKANDNDHA LIBRARY SECOND FLOOR PLAN



Window; D- Door; SD- Safety Door; AV- Audio Video

**Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently abled users and mode of access to collection**

**Clearly laid out floor plan; adequate signage and fire alarm:**

- Sufficient navigation signs are placed to reach all the library areas.

- Fire extinguishers are provided at strategic locations.
- Emergency exit is provided

**Accesses to differently abled users have the following provisions:**

Even though the differently abled students studying in the college is presently nil, however provisions are made.

- They can authorize his/her classmate to borrow and return books from library.
- Text books, newspapers, Digital library section is available in the ground floor for easy access.
- Ramp facility is made available.
- On request special assistance is extended from the library staff.

**4.2.3 Give details on the library holdings**

**a)Print (Books, Back Volumes and Thesis)**

| Particulars       | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | 2016-2017 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| Books& References | 38733     | 40258     | 42435     | 50291     | 54255     |
| Journals          | 291       | 136       | 136       | 152       | 152       |
| Back Volumes      | 1349      | 1604      | 1937      | 2186      | 2486      |

**b)Non Print (Microfiche, AV)**

| Particulars       | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | 2016-2017 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| CD/DVDs           | 2597      | 2872      | 2872      | 2872      | 2872      |
| Audio/Video Tapes | 115       | 115       | 115       | 331       | 331       |

**c) Electronic (E-Books, E- Journals)**

| Particulars  | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | 2016-2017 |
|--------------|-----------|-----------|-----------|-----------|-----------|
| CD/DVDs      | 2597      | 2482      | 2597      | 2872      | 2872      |
| E-Books      | 105       | 230       | 420       | 551       | 663       |
| E-Journals   | 3277      | 1491      | 1491      | 1499      | 1499      |
| NPTEL Videos | 115       | 115       | 115       | 331       | 331       |

**d) Special Collections**

| Particulars                                                                                                                                                     | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | 2016-2017 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Guinness & Limca record, Competitive, Auto Biography, Encyclopedia, Motivational, Tamil, Story, Placement-category wise, Comic, fictional, non-fictional books. | 104       | 295       | 1421      | 4213      | 3563      |
| Ph.D Thesis                                                                                                                                                     | 10        | 15        | 23        | 43        | 43        |
| Project reports                                                                                                                                                 | 1571      | 2074      | 2519      | 2672      | 3206      |

#### 4.2.4 What tools does the library deploy to provide access to the collection?

|                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OPAC                                                               | <p>User can access the online information about the availability of books.</p> <ul style="list-style-type: none"> <li>• (OPAC) is a library catalogue accessed via a computer terminal for the benefit of library users.</li> <li>• The basic purpose of the OPAC is to create a database of library holdings which provides an online catalog to help users in identifying and searching resources</li> <li>• Users can search a document, confirm its availability, reserve the book and even issue/return the material, etc.</li> <li>• At one point in time, the electronic catalog was at the front line of service technology.</li> <li>• With the growth of computer networks, users were able to access the library OPACs.</li> </ul> |
| Electronic Resource Management package for e-journals              | <p>The Library has subscribed the following list of e-journals packages</p> <ol style="list-style-type: none"> <li>1. IEEE All Society periodical Package – 169 Nos.</li> <li>2. DELNET Database – 1330 Nos.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Federated searching tools to search articles in multiple databases | Browser based WEB OPAC module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Library Website                                                    | There is no separate website for library .However Library Details available in college website                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| In-house/remote access to e-publications                           | Yes, <a href="http://203.223.193.2">http:// 203.223.193.2</a> – static IP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

#### 4.2.5 To what extent is the ICT deployed in the library?

|                                             |                                                                                                                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Library automation                          | The library is automated with Lips-i-net management software for ease transaction and circulation of books through Bar-coded ID cards. |
| Total number of computers for public access | 25                                                                                                                                     |
| Total numbers of printers for public access | 2                                                                                                                                      |
| Internet band width speed                   | 100 Mbps (Entire campus is Wi-fi enabled)                                                                                              |
| Institutional Repository                    | Students project report, Conference proceedings, Question banks, Open source software CD's and Digital collections.                    |

|                                                                |                                                 |
|----------------------------------------------------------------|-------------------------------------------------|
| Content management system for e-learning                       | NPTEL videos, CD's, DVD's, Digital collections. |
| Participation in Resource sharing networks/consortia           | DELNET, IEEE                                    |
| Total number of Faculty membership in National Digital Library | 250                                             |

#### **4.2.6 Provide details (per day) with regard to.**

|                                                       |                      |
|-------------------------------------------------------|----------------------|
| Average number of walk-ins                            | 320 per day          |
| Average number of books issued/returned               | 167 per day          |
| Ratio of library books to students enrolled           | 13 books per student |
| Average number of books added during last three years | 3906 per year        |
| Average number of login to OPAC                       | Above 75 per day     |
| Average number of login to e-resources                | Above 100 per day    |
| Average number of e-resources downloaded/printed      | Above 50 per day     |
| Number of information literacy training organized     | Once a year          |

#### **4.2.7 Give details of the specialized services provided by the library**

|                                         |                                                                                                                                                          |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manuscripts                             | Manuscripts are available for the access of users.                                                                                                       |
| Reference                               | A exclusive reference section includes new arrival books, hand books, encyclopedia, dictionaries, PhD thesis, question banks and competitive exam books. |
| Reprography                             | The reprography service is available.                                                                                                                    |
| ILL (Inter Library Loan Service)        | DELNET                                                                                                                                                   |
| Information Deployment and Notification | New arrivals are announced in the Library notice boards and circulated through email.                                                                    |
| Internet Access                         | Readylink(speed of 100 Mbps)                                                                                                                             |
| Downloads                               | Articles can be downloaded by the users from the e-journals.                                                                                             |
| Printouts                               | Printer facility is available in the library.                                                                                                            |
| Reading list/Bibliography compilation   | OPAC software can be used to browse the book availability by keywords, author name, title of the book,                                                   |



|                                       |                                                                                                                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | publications.                                                                                                                                                                                               |
| In-house/remote access to e-resources | Resources can be access through Wi-Fi in campus.                                                                                                                                                            |
| User Orientation                      | Orientation program is conducted once in a year to enlighten the users at library.<br>Motivational quotes are displayed around the library to inculcate the reading habits among the user fraternity.       |
| Assistance in searching Databases     | OPAC, Flow tree, printed instructions and library assistance help the user to search database. Librarian and library staff help the users to have smooth access and retrieval experience for library users. |
| INFLIBNET/IUC/ISTEFacilities          | The Library is active member of DELNET                                                                                                                                                                      |

#### 4.2.8 Provide details on the annual library budget and the amount spent for purchasing new books and journals.

|                               | 2012-2013            |                            | 2013-2014            |                            | 2014-2015            |                            | 2015-2016            |                            | 2016-2017            |                            | Average              |                            |
|-------------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|
| Books                         | Budget (Rs in Lakhs) | Amount Spent (Rs in Lakhs) | Budget (Rs in Lakhs) | Amount Spent (Rs in Lakhs) | Budget (Rs in Lakhs) | Amount Spent (Rs in Lakhs) | Budget (Rs in Lakhs) | Amount Spent (Rs in Lakhs) | Budget (Rs in Lakhs) | Amount Spent (Rs in Lakhs) | Budget (Rs in Lakhs) | Amount Spent (Rs in Lakhs) |
| Books                         | 13                   | 12.13                      | 7                    | 5.81                       | 8                    | 8.11                       | 27.08                | 27.8                       | 10.2                 | 10.12                      | 13.05                | 12.79                      |
| Journal and Magazines (Print) | 4                    | 3.13                       | 3.25                 | 3.11                       | 3.5                  | 3.42                       | 4.1                  | 4.10                       | 5                    | 4.23                       | 3.97                 | 3.39                       |
| e-Journals                    | 5                    | 4.53                       | 4                    | 3.82                       | 4                    | 3.99                       | 4.5                  | 4.43                       | 5                    | 4.65                       | 4.5                  | 4.28                       |

#### 4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services.

Yes, Formal feedback is collected annually from the stakeholders, and placed before the Advisory committee for review and recommendations.

| Stakeholders | Feedback                                                                                                                      | Remedial Action                                                                                                                  |
|--------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Faculty      | Suggested to award "BEST LIBRARY USER"                                                                                        | Initiated "BEST LIBRARY USER" award for Staff and students from 2014-15 onwards.                                                 |
| Students     | Requested for Audio visual, Placement book, General Books, Student motivation Books, Study materials and old Question papers. | Placement books, General Books, Student motivation Books, Tamil books, Question banks and Anna University Question papers for 10 |

|                 |                                                                               |                                                                             |
|-----------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                 |                                                                               | years and Autonomous Question papers soft copy were made available.         |
| <b>Faculty</b>  | Requested to Increase the number of computers in the library                  | In addition to 12 computers, 15 more computers were added during 2015-2016. |
| <b>Students</b> | Requested for English story books, General Books, Aptitude books, GATE books. | Books were added during 2015-2016.                                          |

Apart from the formal feedback, adhoc periodic feedbacks given by members of the committee staff and students are immediately taken care, and the requests are fulfilled.

#### 4.2.10 List the infrastructural development of the library over the last four years.

| Library holdings     | 2012-13 |                        | 2013-14 |                        | 2014-15 |                        | 2015-16 |                        | 2016-17 |                        |
|----------------------|---------|------------------------|---------|------------------------|---------|------------------------|---------|------------------------|---------|------------------------|
|                      | No.     | TotalCost(Rs in Lakhs) | No.     | TotalCost(Rs in Lakhs) | No.     | TotalCost(Rs in Lakhs) | No.     | TotalCost(Rs in Lakhs) | No.     | TotalCost(Rs in Lakhs) |
| Books                | 4508    | 12.13                  | 1524    | 5.81                   | 2177    | 8.11                   | 7856    | 27.8                   | 3933    | 6.84                   |
| Journals             | 291     | 3.13                   | 136     | 3.11                   | 136     | 3.42                   | 152     | 4.10                   | 152     | 4.10                   |
| E- Journals          | 3277    | 4.53                   | 1491    | 3.82                   | 1491    | 3.99                   | 1499    | 4.43                   | 1499    | 4.65                   |
| DELNETMembership     | 1       | 0.115                  | 1       | 0.115                  | 1       | 0.115                  | 1       | 0.115                  | 1       | 0.115                  |
| Computers(Desk Top)  | -       | -                      | -       | -                      | -       | -                      | 15      | 6.00                   | -       | -                      |
| Laptop               | -       | -                      | -       | -                      | 19      | 4.50                   | -       | -                      | -       | -                      |
| Digital Camera       | -       | -                      | -       | -                      | -       | -                      | 1       | 0.425                  | -       | -                      |
| AV Room(TV, Speaker) | -       | -                      | -       | -                      | -       | -                      | 1       | 0.49                   | -       | -                      |
| Furniture(Book Rack) | -       | -                      | 30      | 10.87                  | -       | -                      | -       | -                      | -       | -                      |

#### 4.2.11 Did the library organize workshop/s for students, teachers, non-teaching staff of the College to facilitate better Library usage?

- Orientation session organized for newly admitted students to make them aware about library procedures and facilities for better utilization of library.
- During the library hours, assistance on usage of library resources and other resources is being given to users.

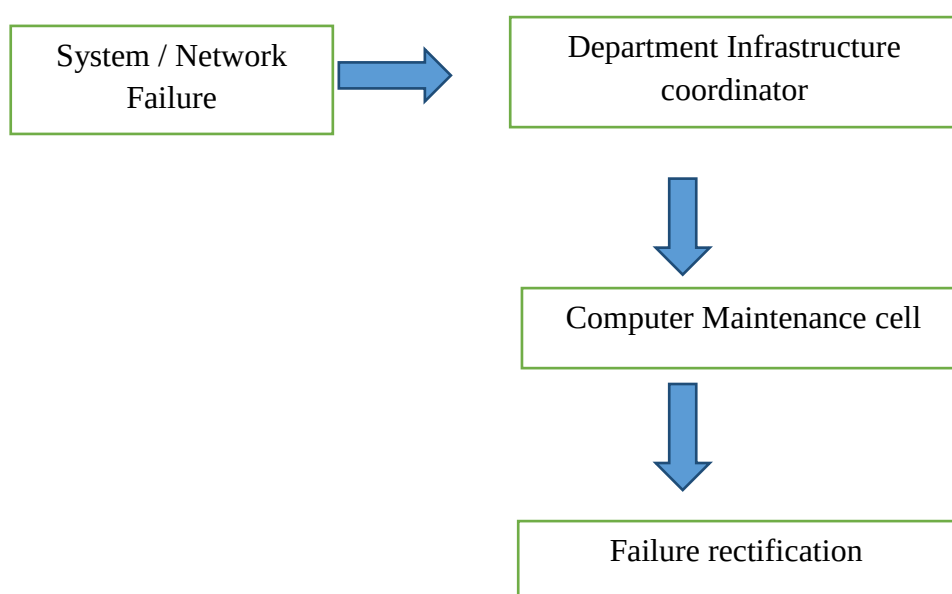
### 4.3 IT INFRASTRUCTURE

#### 4.3.1 Does the College have a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management?

Yes, the college has IT policy to address standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management.

##### IT Service Management:

The college has an exclusive Computer Maintenance Cell (CMC) under the supervision of Department of Computer Science and Engineering. The team consists of system administrators and network maintenance engineers who take responsibilities for maintaining all the computers, peripherals and Networking in the college.



##### Roles and responsibilities of Computer Maintenance Cell

- Establishment of computer laboratories.
- Campus-wide installation and maintenance of computer and server.
- Internet and Wi-Fi maintenance.
- Additional Evening Duty up to 6.15 pm and also second and fourth Saturday duty for internet and Wi-Fi checking.
- Online Internal Quiz Exams.
- Conduction of online placement exams
- Conduction of online competitive exams.

##### Information Security & Network Security Provisions:

The college has a private Local Area Network (LAN) which has been entrusted with a firewall.

- The college has intranet and internet facility with firewall security.

- Mail Ids with snsct.org domain is provided for every higher official to communicate important and confidential messages to reduce the risk of being hacked.
- User based systems for students, staff and guests which limits the access to various applications and servers based on their roles.
- Licensed Anti-virus installed which prevents virus, Trojans, worms, malware and other attacks.
- Verification and authentication by CMC for Wi-Fi users.

### **Risk Management**

- ✓ Uninterrupted Power Supply is provided to all the hosts and clients.
- ✓ Regular data backups are done at regular period of time to ensure no loss of data.
- ✓ Insecure and untrusted websites are blocked to prevent the risk of malicious activities.
- ✓ Linux OS is used for browsing, copying files and folders to avoid the transfer of threats.

### **Software Asset Management**

- ✓ Computer Maintenance Cell (CMC) installs and maintains the software in all the systems and servers.
- ✓ Software purchase and renewal is done by CMC whenever required.

#### **4.3.2 Give details of the College's computing facilities (hardware and software).**

The college has been provided with 1267 nodes to fulfil the requirements of all departments and benefit of the students and faculty community.

#### **Number of systems with configuration**

| S.No            | Make                                                                                                                                                      | Nos. |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>SYSTEMS:</b> |                                                                                                                                                           |      |
| 1.              | ACER Version PC Intel core i3 2100, 2GB RAM DDR3, 500GB SATA HDD, G-Force graphics card, Key Board -Optical Mouse, Monitor.                               | 73   |
| 2.              | ACER PC-Power series Intel core 2 Quad Q8300 processor, Intel G31 chipset motherboard, 2 GB DDR-2 RAM, 320GB SATA HDD, Key Board -Optical Mouse, Monitor. | 82   |
| 3.              | ACER- Intel Pentium® Dual Core 2.0GHz, 1 GB RAM With 512 MB Graphics Card, 160 GB HDD, Key Board -Optical Mouse, Monitor.                                 | 205  |
| 4.              | ACER VERITON -Intel Pentium® Core 2 Quad @2.80GHz, 2 GB RAM, Key Board -Optical Mouse, Monitor.                                                           | 104  |
| 5.              | ACER VERITON -Intel Pentium® CPU G620@2.60GHz, 2 GB RAM, 320 GB HDD Key Board -Optical Mouse, Monitor.                                                    | 232  |
| 6.              | ACER PC -Intel Pentium Dual core 2.8 Ghz, 945 Chipset, 1 GB RAM, 80 GB Hard Disk, Acer Multimedia Key Board, Optical Mouse, 17" TFT Monitor               | 131  |

|                 |                                                                                                                                                                                                                  |      |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 7.              | ACER PC -Intel Pentium Dual Core 3.1 Ghz, 2 GB DDR – 3 GB RAM, 500 GB Hard Disk, Acer Key Board, Optical Mouse, 19.5' TFT Monitor                                                                                | 27   |
| 8.              | ACER PC -Intel Dual core 2.8 Ghz, 945 Chipset, 256 MB RAM, 80 GB Hard Disk, Acer Key Board, Optical Mouse, 15' CRT Monitor                                                                                       | 10   |
| 9.              | ACER PC - Intel core i3 2100 process - Intel H61 Chipset MBD - 2GB RAM - 500 GB HDD - Acer Keyboard & Optical Mouse - ACER 18.5" TFT LCD Monitor                                                                 | 6    |
| 10.             | Acer PC , Intel Pentium – D – Dual Core 3.0 Ghz with 800MhZ FSB, 2x1 MB Cache. Intel 945 Chipset Mother Board, 1 GB DDR – 2GB RAM, 80 GB SATA HDD, Acer KBD & Optical Mouse, ACER 18.5" TFT LCD Monitor          | 13   |
| 11.             | Zenith PC Intel® Pentium ® 4 CPU 2.66 GHz RAM 1 GB 80 GB ROM, Key Board, Optical Mouse, 15' CRT Monitor                                                                                                          | 102  |
| 12.             | Intel Pentium Processor, RAM 2GB,HDD-500GB,Monitor 18.5" TFT                                                                                                                                                     | 70   |
| 13.             | Intel Pentium D Processor, RAM 512MB,HDD-320GB,Zenith CRT Monitor , Key Board, Optical Mouse, 15' CRT Monitor                                                                                                    | 1    |
| 14.             | Zenith -AMD Athlon(tm)XP2000+ 1.66GHz 1GB RAM, Key Board, Optical Mouse, 15' CRT Monitor                                                                                                                         | 67   |
| 15.             | WIPRO-Intel Pentium core i3 3.30GHz, 4 GB RAM, 500GB HDD, Key Board, Optical Mouse, 15' CRT Monitor                                                                                                              | 21   |
| 16.             | WIPRO-Intel Pentium® Dual Core 2.60 GHz 2 GB RAM,500 GB HDD, Key Board, Optical Mouse, 15' CRT Monitor                                                                                                           | 287  |
| <b>SERVERS:</b> |                                                                                                                                                                                                                  |      |
| 17.             | Server with Intel Xeon 2.99 GHz, 2 GB RAM, 3 GHz CPU, 320 GB HDD with Monitor, Keyboard and Optical Mouse                                                                                                        | 1    |
| 18.             | Acer Server Acer Altos G450, Xeon 5050 Processor 3.0 Ghz, 2 GB DDRII RAM, 500 GB HDD, Acer Multimedia Keyboard, Optical Mouse, 19' LCD Monitor                                                                   | 1    |
| 19.             | ACER ALTOS SERVER Altos G540 (2-way) 3.0GHz - 2GB RAM - 160GB HDD - Integrated 6 Port SATA Controller - Redundancy Easy build and ACER Server Manager V6x - 17" TFT Acer LCD Monitor - Key Board -Optical Mouse. | 24   |
| <b>Total</b>    |                                                                                                                                                                                                                  | 1457 |

#### Computer - Student ratio

| S.No. | Department                       | For Students | For Faculty members |
|-------|----------------------------------|--------------|---------------------|
| 1     | Aeronautical Engineering         | 66           | 3                   |
| 2     | Automobile Engineering           |              | 3                   |
| 3     | Civil Engineering                | 83           | 3                   |
| 4     | Computer science and Engineering | 428          | 10                  |

|    |                                             |     |    |
|----|---------------------------------------------|-----|----|
| 5  | Electronics and Communication Engineering   | 71  | 5  |
| 6  | Electrical and Electronics Engineering      | 68  | 5  |
| 7  | Electronics and Instrumentation Engineering | 33  | 3  |
| 8  | Information Technology                      | 175 | 6  |
| 9  | Mechanical Engineering                      | 72  | 10 |
| 10 | Mechatronics Engineering                    | 36  | 4  |
| 11 | MBA                                         | 62  | 2  |
| 12 | MCA                                         | 61  | 2  |
| 13 | Science and Humanities                      | 51  | 5  |

### **Dedicated Computing Facilities**

| <b>Name of the Lab</b>    | <b>No of Systems</b> | <b>No of System connected with LAN</b> | <b>No.of Printers</b> | <b>No. of Servers</b> |
|---------------------------|----------------------|----------------------------------------|-----------------------|-----------------------|
| Library                   | 19                   | 19                                     | 1                     | 1                     |
| Library – Internet Center | 50                   | 50                                     | 5                     | 1                     |
| Hostel – Gents            | 30                   | 30                                     | 3                     | 0                     |
| Hostel – Ladies           | 30                   | 30                                     | 3                     | 0                     |
| Hostel – Ladies           | 50                   | 50                                     | 4                     | 0                     |
| Administration            | 11                   | 11                                     | 11                    | 1                     |
| Total                     | 190                  | 190                                    | 27                    | 3                     |

### **Computer-student ratio**

Total No.of Students as per intake: 4788 (Including both UG & PG)

Total system: 1267

1267:4788 (1:4)

As per AICTE norms 857 system and 86 printers is needed but college is equipped with 1267 systems and 129 printers.

### **Dedicated computing facility**

The dedicated computers for internet browsing with printer during lunch hours and post-college hours facilities are available at the below mentioned premises for the benefit of the students from all disciplines:

- ✓ Common Computing center (F-block)
- ✓ Common Computer center-I(A-block)
- ✓ Library
- ✓ Boys & Girls Hostel Browsing center

- ✓ Cloud computing laboratory

### LAN facility

The entire college campus has been equipped with optical fiber connectivity (about 1.4 Km) to connect server room with a total number of 1312 nodes connected via Ethernet of 100Mbps speed. This facility enables the students and faculty members to access the study materials and on-line course materials and other web resource 24x7. The college has a dedicated leased Internet service through Ready link with speed of 100 Mbps.

### Wi-Fi facility

Entire campus is Wi-Fi enabled. The College has Wi-Fi Hotspot connectivity in all the department blocks and hostels.

No. of Access points: 39

| S.No | Device name                                          | Antenna Range                                       | Block Name       | Count |
|------|------------------------------------------------------|-----------------------------------------------------|------------------|-------|
| 1    | RAD 500 Equipment with 48V POE 14 dbi patch Antenna  | Microtek 411A Equipment                             | A block          | 1     |
| 2    | RAD 500 Equipment with 48V POE 14 dbi patch Antenna  | Microtek 411A Equipment                             | B Block (Common) | 1     |
| 3    | Rocket M5 Equipment 29 dbi Dual Polarization antenna | TI-WAS5210G 2.46Ghz High power Wireless outdoor CPE | C Block (Common) | 1     |
|      |                                                      |                                                     | Chanakya Block   | 4     |
|      |                                                      |                                                     | Library          | 2     |
|      |                                                      |                                                     | Boys Hostel      | 1     |
|      |                                                      |                                                     | Cafeteria        | 7     |
|      |                                                      |                                                     | Girls Hostel     | 5     |
|      |                                                      |                                                     | D block          | 3     |
|      |                                                      |                                                     | F block          | 10    |
|      |                                                      |                                                     | Guest House      | 4     |
|      |                                                      |                                                     |                  | 39    |

- Bandwidth Allocated : 100 Mbps
- Bandwidth Allocated Ratio : (1:1)

### Proprietary software / Open source softwares

The college has the following licensed and open source software

| Sl.No | Name of the Software                      | Proprietary software / Open source software |
|-------|-------------------------------------------|---------------------------------------------|
| 1.    | AUTO CAD 3D MAX DESIGN 2011               | Proprietary software                        |
| 2.    | Adobe Creative Stutie Premium (full pack) | Proprietary software                        |
| 3.    | Adobe Creative Stutie Premium (Media Kit) | Proprietary software                        |

|     |                                                                   |                      |
|-----|-------------------------------------------------------------------|----------------------|
| 4.  | Adobe creative suite premium 1.0                                  | Propriety software   |
| 5.  | Adobe creative suite premium 1.1 WIN AOO                          | Propriety software   |
| 6.  | Adobe PageMaker plug-in pack 3.0 AOO                              | Propriety software   |
| 7.  | ADOBE PHOTOSHOP 7.0 Windows O/S                                   | Propriety software   |
| 8.  | ADOBE PHOTOSHOP CS3                                               | Propriety software   |
| 9.  | ALG NASTRON                                                       | Propriety software   |
| 10. | ALG NASTRON (99 Users)                                            | Propriety software   |
| 11. | ANSYS (5 Users)                                                   | Propriety software   |
| 12. | ANSYS (CFD Lab) 18 Users                                          | Propriety software   |
| 13. | ANSYS V13.0                                                       | Propriety software   |
| 14. | AUTO CAD 2011                                                     | Propriety software   |
| 15. | AUTO CAD 3D MAX DESIGN 2011                                       | Propriety software   |
| 16. | AUTO CAD CIVIL 3D 2011                                            | Propriety software   |
| 17. | AUTO DESK REVIT MEP 2011                                          | Propriety software   |
| 18. | AutoCAD 2002                                                      | Propriety software   |
| 19. | AUTOCAD REVIT STRUCTURE 2011                                      | Propriety software   |
| 20. | Borland C++ Builder 6 professional                                | Propriety software   |
| 21. | Borland CailberRM 5.1                                             | Propriety software   |
| 22. | Borland Delphi 7 Professional                                     | Propriety software   |
| 23. | Borland Jbuilder X Developer                                      | Propriety software   |
| 24. | Borland Optimizeit Suite 6 new user-academic                      | Propriety software   |
| 25. | Borland Star Team Standard 5.4                                    | Propriety software   |
| 26. | C Compiler                                                        | Open source software |
| 27. | CADENCE                                                           | Propriety software   |
| 28. | CATIA V5R 19                                                      | Propriety Software   |
| 29. | Cimplicity (TIA software)                                         | Propriety software   |
| 30. | CREO                                                              | Propriety Software   |
| 31. | DOS-BOX FANUX                                                     | Propriety Software   |
| 32. | Eclipse                                                           | Open source software |
| 33. | Educational Institution Member Certificate of CSI                 | Propriety software   |
| 34. | ETAB                                                              | Propriety software   |
| 35. | FEDORA 17, 18                                                     | Open source software |
| 36. | FOSS LAB Server                                                   | Propriety software   |
| 37. | HYDROSIM and PNEUMOSIM (5 Users + 5 Users)                        | Propriety software   |
| 38. | HYDROSIM and PNEUMOSIM Software                                   | Propriety software   |
| 39. | IBM Rational suite Enterprise                                     | Propriety software   |
| 40. | IBM SPSS Statistics 19                                            | Propriety software   |
| 41. | JAVA                                                              | Open source software |
| 42. | Java Freeware                                                     | Open source software |
| 43. | JAVA JDK1.3 &1.4 Java Corporation.-1No                            | Open source software |
| 44. | Kaspersky Anti-Virus For Windows 6.0                              | Propriety software   |
| 45. | LAB VIEW Software                                                 | Propriety software   |
| 46. | M/s.Globarena Technologies Pvt.Ltd                                | Propriety software   |
| 47. | Macromedia Director MX (full Pack)                                | Propriety software   |
| 48. | Macromedia Director MX (Licensing Macromedia Studio MX (Licensing | Propriety software   |
| 49. | Macromedia director MX 2004                                       | Propriety software   |
| 50. | Macromedia Studio MX 2004                                         | Propriety software   |
| 51. | MATLAB                                                            | Propriety software   |
| 52. | MATLAB2013a                                                       | Propriety software   |
| 53. | Microsoft Campus License Agreement                                | Propriety software   |



|     |                                                            |                      |
|-----|------------------------------------------------------------|----------------------|
| 54. | MM Studio MX 2004 Win                                      | Propriety software   |
| 55. | MS office                                                  | Open source software |
| 56. | Ms SQL 2000 Server CD Edu                                  | Propriety software   |
| 57. | MS-OFFICE XP (open License)                                | Propriety software   |
| 58. | Net beans IDE                                              | Open source software |
| 59. | Network Simulator                                          | Propriety software   |
| 60. | Novel Netware 4.1                                          | Propriety software   |
| 61. | NX CAM                                                     | Propriety software   |
| 62. | Office Automation Package such as MS-Office                | Propriety Software   |
| 63. | OPEN OFFICE                                                | Open source software |
| 64. | ORACLE 9i                                                  | Propriety software   |
| 65. | PRO-E                                                      | Propriety software   |
| 66. | Quick Heal Internet Security Essentials 2012               | Propriety software   |
| 67. | Rational Rose                                              | Propriety software   |
| 68. | Red hat Linux 8.0                                          | Propriety software   |
| 69. | SCILAB                                                     | Open source software |
| 70. | SOLID EDGE V19                                             | Propriety software   |
| 71. | Solid edge V19 ( 30 users )                                | Propriety software   |
| 72. | SPSS                                                       | Open source software |
| 73. | STADD PRO SERIES 4 VERSION                                 | Propriety software   |
| 74. | Symantec Antivirus 9.0                                     | Propriety software   |
| 75. | Symantec Endpoint Protection 12.1 - (5 User                | Propriety software   |
| 76. | Tally                                                      | Propriety software   |
| 77. | Tally 9                                                    | Propriety software   |
| 78. | TURBO C /C++                                               | Propriety software   |
| 79. | VISUAL BASIC 6.0                                           | Propriety software   |
| 80. | Visual Studio.net(Microsoft Open License) Campus Agreement | Propriety software   |
| 81. | Windows 2000 Professional MS Open License                  | Propriety software   |
| 82. | Windows 2000 Server Microsoft Open License                 | Propriety software   |
| 83. | Windows 2000 Server WIPRO Ltd                              | Propriety software   |
| 84. | Windows 2003 Server Microsoft Open License                 | Propriety software   |
| 85. | Windows 98 Operating System                                | Propriety software   |
| 86. | Windows XP Home Microsoft Open License                     | Propriety software   |
| 87. | Windows XP Professional MS Open License                    | Propriety software   |
| 88. | WPL soft for PLC                                           | Propriety software   |
| 89. | XILINX ISE                                                 | Propriety software   |

#### Number of nodes/ computers with internet facility

|                         |             |
|-------------------------|-------------|
| Department System       | 1267        |
| Library                 | 19          |
| Library Internet Center | 50          |
| Boys Hostel             | 30          |
| Girls-Hostel            | 80          |
| Administration          | 11          |
| <b>Total</b>            | <b>1457</b> |

### **Any other**

- The Audio-Visual Room is available in the library for viewing the audiovisual materials (e.g. NPTEL, NIT lectures).

#### **4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

Continual up gradation and monitoring of IT infrastructure is carried out by Computer Maintenance Cell and department infrastructure coordinators.

- Systems are regularly upgraded; components like Processor, RAM, Graphics Card and Hard drives are upgraded as and when required.
- Software Licenses are renewed periodically.
- CCTV cameras are installed in the college premises to monitor the campus activities.
- Number of nodes, projectors, printers, AC's, UPS and Network capacity is increased based on students strength and need.

#### **4.3.4 Give details on access to online teaching and learning resources and other knowledge, and information provided to the staff and students for quality teaching, learning and research.**

Every faculty members and students have access to Internet in the campus. The following resources can be accessed online by the faculty members and students

- The course materials, question banks, lesson plan etc.
- Local Open Source learning management platforms like MOODLE are used to aid in the teaching learning process.
- NPTEL materials are shared in the LAN and accessible 24x7 through Wi-fi as well.
- Student Centric learning facility has been enabled in all the department.
- Demonstrative models and video lectures are used in the teaching learning process using the LAN and Wi-fi facilities available in the campus.
- All the users are permitted to access the e-journals (LAN &Wi-fi).
- Online Certification courses through NPTEL, MOOC, eDxetc are offered.

#### **4.3.5 Give details on the ICT enabled classrooms/learning spaces available within the College and how they are utilized for enhancing the quality of teaching and learning.**

In every department, ICT enabled classrooms are available with a computer, LCD Projectors with LAN and internet connectivity for teaching-learning process.

- The laboratories are provided with Internet facility to access the online learning resources.
- Well-equipped seminar halls with LCD projectors, computer system with Internet connectivity, public addressing systems and adequate space for conducting activities.
- The students are encouraged to design and convert their ideas into apps, prototype

etc., by using the software's available in computer laboratories.

- Cloud computing laboratory is installed with specialized objective framing software to facilitate quiz and placement online test.
- Wi-Fi facilities are extended to both boys and girls hostel to access e-learning materials and Internet.
- Every department adequately provided with ICT Enabled class rooms and Laboratories. There are 64 LCD Projectors and 12 OHP to enhance the teaching & learning.

**4.3.6 How are the faculty facilitated to prepare computer aided teaching-learning materials? What are the facilities available in the College or affiliating University for such initiatives?**

- To prepare teaching and learning materials, faculty members rooms are equipped with Internet enabled computing facilities.
- The faculty member can access the learning materials like NPTEL Videos, MOOC, EDUSAT, DELNET, edX, MOODLE etc.,
- Digital Library is also provided to faculty members to access e-journals.
- Question banks are made available in the digital library and department server which can be accessed electronically.

**4.3.7 How are the computers and their accessories maintained? (AMC, etc.)**

- Computers available in the college are well maintained by Computer Maintenance Cell.
- In addition, each department has a non-teaching technical staff in each laboratory to maintain the systems periodically.
- Outdated systems are identified and updated whenever needed.
- Antivirus is installed in all Servers, Desktops and Laptops.

**4.3.8 Does the College avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of?**

Yes. The college is availing the national knowledge network connectivity through our library in which our college subscribed and have access to e-journals such as IEEE, DELNET etc.

**4.3.9 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College?**

Annual budget for maintenance and expense were detailed given below:

| Sl.NO | Academic year | Annual Budget for the maintenance of computers(Rs. in Lakhs) | Details of Expenditure(Rs. in Lakhs) |
|-------|---------------|--------------------------------------------------------------|--------------------------------------|
| 1     | 2012-13       | 3.38                                                         | 1.59                                 |

|   |                |      |      |
|---|----------------|------|------|
| 2 | <b>2013-14</b> | 3.64 | 3.80 |
| 3 | <b>2014-15</b> | 6.45 | 2.19 |
| 4 | <b>2015-16</b> | 3.60 | 2.59 |

| Sl.No. | Academic year  | Annual expenses for purchasing computers |                            |
|--------|----------------|------------------------------------------|----------------------------|
|        |                | Sanctioned<br>(Rs. in Lakhs)             | Utilized<br>(Rs. in Lakhs) |
| 1      | <b>2012-13</b> | 30.00                                    | 31.60                      |
| 2      | <b>2013-14</b> | 18.27                                    | 13.84                      |
| 3      | <b>2014-15</b> | 5.12                                     | 1.92                       |
| 4      | <b>2015-16</b> | 2.18                                     | 1.20                       |

#### **4.4 MAINTENANCE OF CAMPUS FACILITIES**

##### **4.4.1. Does the College have an Estate Office / designated officer for overseeing maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.**

Yes. The sprawling state of the art campus has a designated officer (Administrative officer and Manager) for overseeing the maintenance of buildings, class-rooms, laboratories, roads, water supply, security and other amenities and facilities. They are deputed to work around the clock for ensuring excellent physical ambience and attend in-campus problems swiftly. College gives a very pleasant look with the help of these dedicated and designated officers and architects.

Campus specific initiatives undertaken by the college to improve the physical ambience are enunciated below:

- External Signage of building with murals
- Sewage treatment plant
- Energy conservation drive
- Guest house and grated Principal residence
- Air conditioned Administrative Office/Labs/Seminar Halls
- Two wheeler and car parking (with and without shed)
- Clean class rooms and hygienic wash rooms
- Gardening, Landscaping and sit outs.
- Paver blocks on foot path

- Rain water harvesting
- Periodic painting of buildings and equipments
- RO facility
- Security and surveillance system
- Intercom facility
- Standard firefighting facility (each floor level)
- Illuminating hoardings

**4.4.2 Does the College appoint staff for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained? Give details.**

The college has dedicated staff for maintenance and repair activities. Administrative officer and Manager oversee the maintenance of physical infrastructure. The detailed infrastructure facilities, services and equipments that is available in the college with the number of supporting staffs for the maintenance and In-charge of each facility is appended below:

| S.No. | Facility/service                | In-charge                               | No. of Supporting staff |
|-------|---------------------------------|-----------------------------------------|-------------------------|
| 1.    | Housekeeping                    | Mr. C.Selvaraj                          | 41                      |
| 2.    | Gardening                       |                                         |                         |
| 3.    | Electrical lines and equipments | Mr.V. Dhakshnamoorthy                   | 2                       |
| 4.    | Civil works                     | Mr.B.Senthilkumar<br>Mr. M.Balakrishnan | Hired on contract basis |
| 5.    | Transport mechanics             | Mr. M.Karthick                          | 16                      |
| 6.    | Transport drivers               |                                         |                         |
| 7.    | Computer Maintenance            | Mr. N.Premnath                          | 5                       |
| 8.    | Mess                            | Mr. P.Soundararajan                     | 40                      |
| 9.    | Canteen                         | Mr.M.Karthick                           | Hired on contract basis |
| 10.   | Laboratory equipments           | Concerned Lab Incharges                 | -                       |
| 11.   | Security                        | Mr. B.Segaran                           | 30                      |
| 12.   | Sports                          | Mr.N.Dhinakaran                         | Coach – 02              |
| 13.   | Reception                       | Mrs. M.Aruna                            | 01                      |
| 14.   | Guest house                     | Mr.N.Ponraj                             | -                       |
| 15.   | Network maintenance             | Mr. T.Boopathy                          | 02                      |

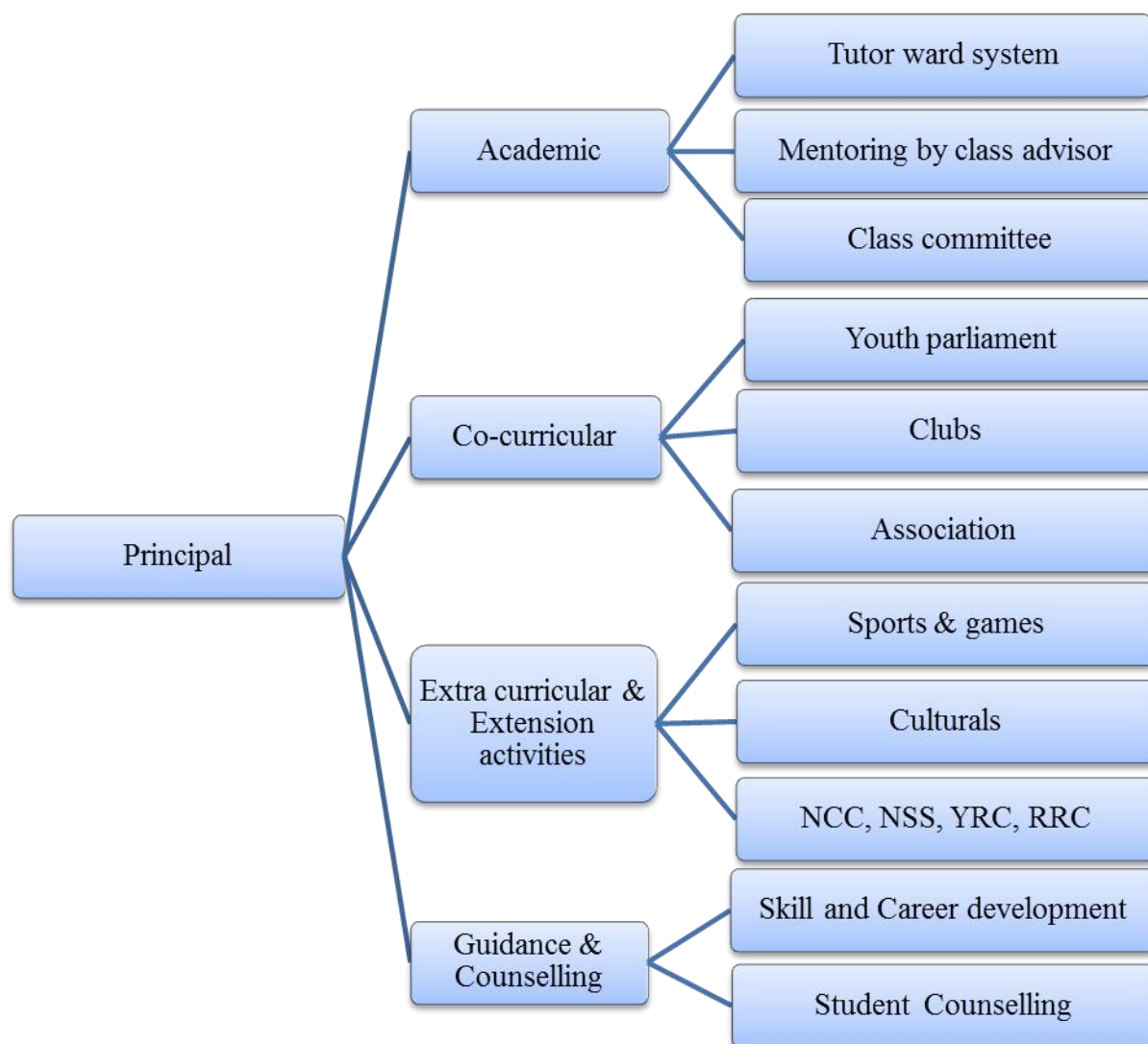
***Criterion V***  
***Student Support and***  
***Progression***

## CRITERION V

### STUDENT SUPPORT AND PROGRESSION

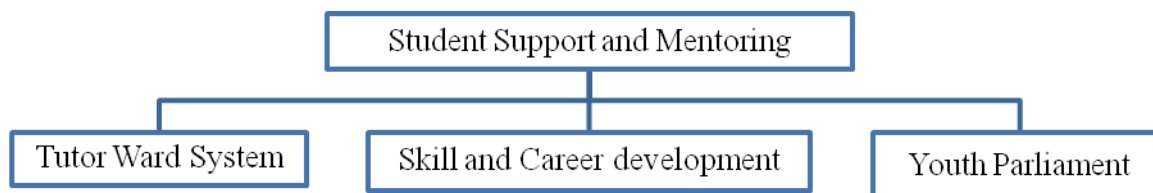
#### 5.1 STUDENT MENTORING AND SUPPORT

SNS College of Technology is guiding and supporting the students to enhance academic, co-curricular and extracurricular activities. It helps the students to clarify their doubts and to get know the available opportunities for their career development.



##### 5.1.1 Does the college have an independent system for student support and mentoring? If yes, what are its structural and functional characteristics?

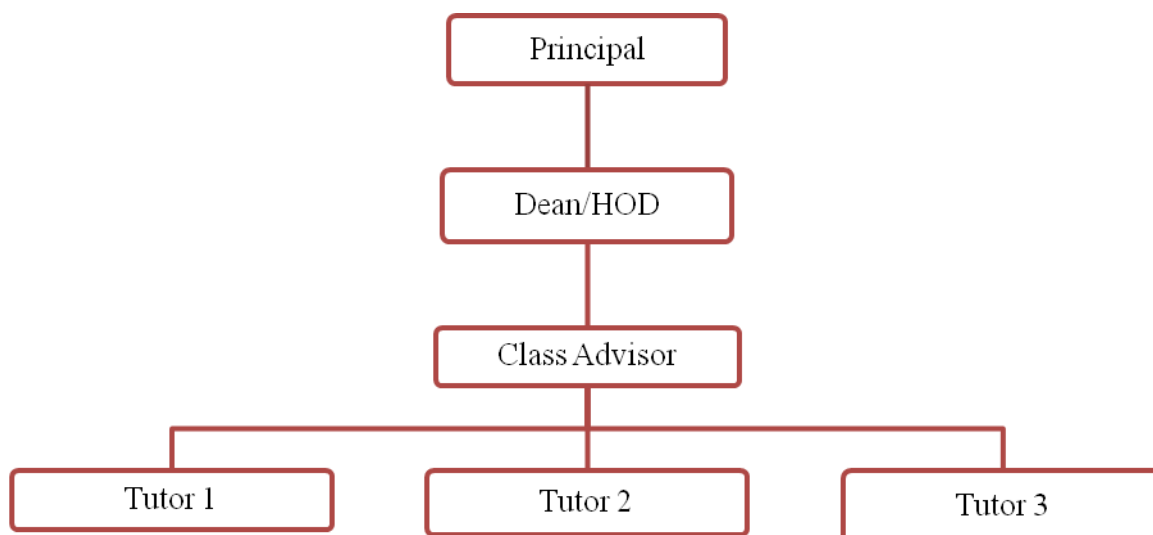
Yes, the college has an independent system for student support and mentoring as given below:



The student support and mentoring initiatives of the college are undertaken through the following:

- Youth Parliament,
- Tutor Ward System
- Skill & Career Development.

**Tutor-Ward System:**



The tutor ward system is the most effective student support and mentoring system in the college. Under this system each class has been assigned with three faculty members in total, out of which one as class advisor who also acts as the class tutor and two other faculty members are as assigned as class tutors. Together, they are responsible for academic guidance and mentoring. Each tutor is assigned with a maximum of 25 students. He/she is responsible for the students under him/her.

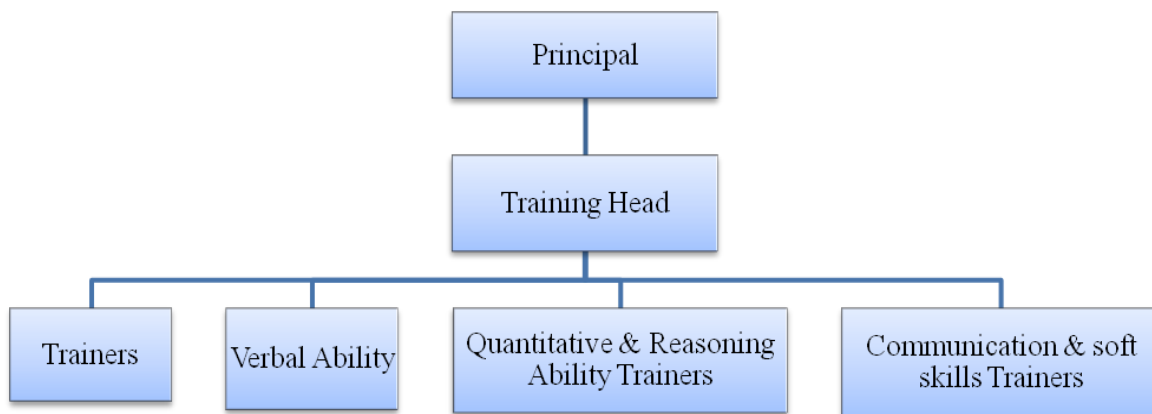
The Tutor ward System functions include:

- The tutor counsels the ward on academic, non-academic and personal matters.
- The tutor guides the students to choose proper Elective courses / Value Added Courses etc., according to the need and pace of the student learning.
- The student record book (Green Card-UG/Blue Card-PG) pertaining to student profile is created and maintained.



- In association with the wards, the tutor assigns the target on co-curricular, extracurricular and other activities at the beginning of the every academic year.
- The progress of the ward on the targets is monitored and reviewed frequently to achieve the goals and the same is documented.
- Tutors encourage and guide the advanced learners to enroll for MOOC and NPTEL courses.
- The slow learners are encouraged to attend extra classes to cope up with their peers.
- The progress of the students is periodically informed to their parents through SMS and parent meeting is arranged during the need of hour.
- The students who are having personal problems, are guided to meet the special counselor so as to resolve the concerns.

#### **Skill and Career Development (SCD) Cell:**



The functions and responsibilities of Skill and Career Development Cell include:

- The curriculum of all UG programmes includes career development courses from first semester to sixth semester.
- The students are given training in communication & soft skills, quantitative & reasoning ability and verbal aptitude to enhance the skill & knowledge.
- The students are given on employability skills like personality test, mock interview and group discussions.
- Company specific trainings are given to the students during placement drives.

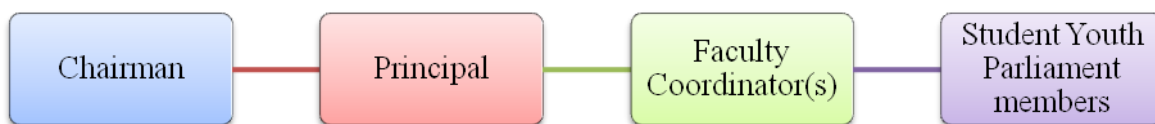
#### **Youth Parliament:**

The youth parliament committee has been functioning in the college to support the students with respect to curricular, co-curricular and extra-curricular activities.

- The youth parliament is directly headed by the Chairman and Principal of the college who guide and mentor the youth parliament committee.
- The committee comprises of 16 students with different portfolios headed by the post of prime minister.

- The selection of different portfolio heads is based upon the student's performance in written test and interview conducted by the college which ensures that the potential students take the charge of the youth parliament.
- All the matters related to the students such as academics, hostel facilities, extracurricular activities are looked after by this student youth parliament committee.

Organizational structure of the student youth parliament:



The various posts in the youth parliament committee are follows:

- Prime Minister (Final Year)
- Deputy Prime Minister (Third Year)
- Speaker ( PG)
- Deputy Speaker (Final Year)
- Minister Academics (Final Year)
- Deputy Minister Academics (Third Year)
- Minister- Law and Order(Final Year)
- Deputy Minister- Law and Order (Third Year)
- Minister Home (Final Year)
- Minister- Hostel (Final Year)
- Minister-Library (Final Year)
- Minister-Finance (Final Year)
- Minister- Sports (Final Year)
- Transport and Maintenance Minister (Final Year)
- Health and Welfare Minister (Final Year)
- Co-Curricular Activities- Minister (Third Year)
- The members of the youth parliament are the representatives of each of the class of UG & PG

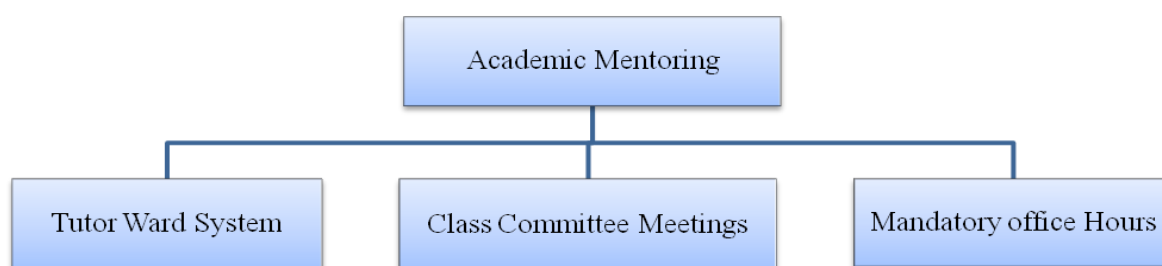
Roles of the student youth parliament are appended below:

- Organizing symposiums for the students.
- Helping to provide good facilities in hostels, canteen etc.
- Looking into the grievances of the students and solve them through meetings with the management.
- Organizing cultural activities in the college.

- Organizing fests and other technical events in the college.
- Conducting periodic meetings for the growth and improvement of the system.
- Actively participating in placement related activities.
- Conducting alumni meets.
- Organizing the peer coaching and peer tutoring system.
- To act as a bridge between management and students.

### 5.1.2 What provisions exist for academic mentoring apart from classroom work?

The College provides academic mentoring for continuous monitoring of student performance and guiding them to enhance their learning experiences and career growth through Tutor Ward system, Class Committee meeting and Mandatory office hours.



**Tutor-Ward System:** The Academic mentoring system is being done through the tutor ward system which is explained in detail in the section 5.1.1.

#### **Class Committee Meetings:**

Every class has a class committee consisting of faculty members of the class concerned, student representatives and a chairperson, who is a faculty member not teaching the class. It is like the ‘Quality Circle’ (more commonly used in all industries) with the goal of improving the teaching – learning process. All departments of the college regularly conduct class committee meetings for all classes at least twice in every semester.

The aims of class committee meeting include:

- To get the feedback from the students and sort the problems, if any, related to academics and general facts of the class.
- Clarifying the regulations of the degree programme and details of rules and regulations to the students.
- Informing the students about weightage of internal marks and attendance.
- Analyzing the performance of the students of the class after each assessment test and finding ways and means of solving problems.
- Identifying the slow learners and requesting the course faculty members concerned to provide some additional help / guidance / coaching to slow learners

#### **Mandatory Office Hours:**

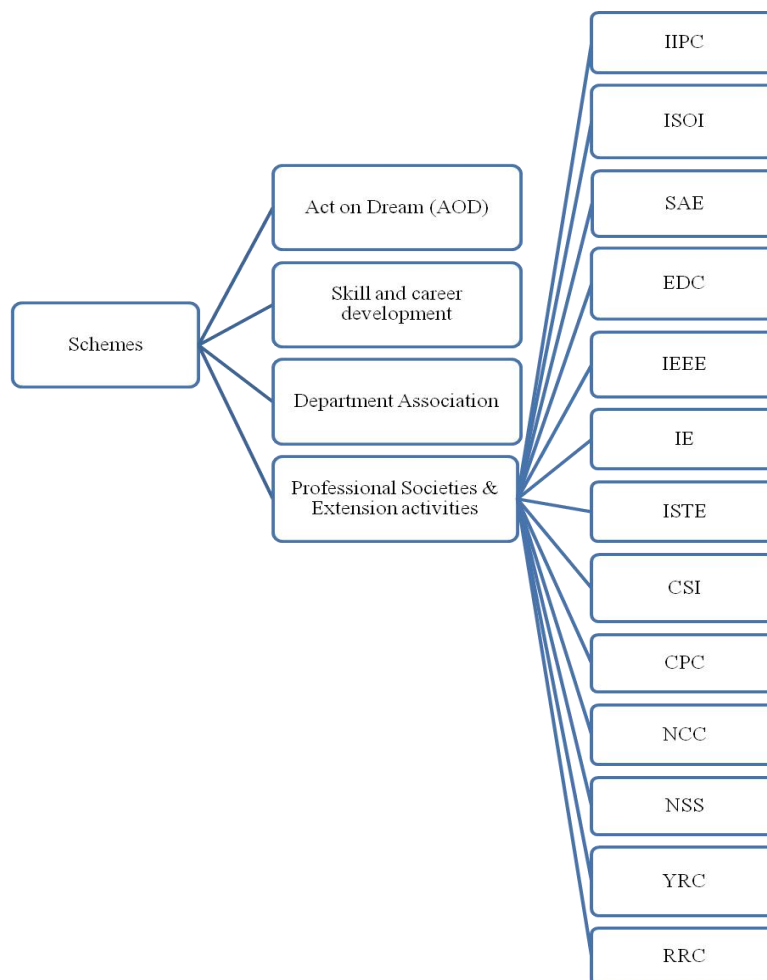
- Every teacher is engaged in academic mentoring twice in a week during the mandatory office hours which is scheduled after regular working hours of the college.

- The Office hour enables the student to clarify his/her specific questions related to a course with the course teacher.
- Course teachers guide the students to take up the events / courses outside the college related to the course. They mentor the students in publications outside the college.
- This system provides an extra platform to devise a different kind of delivery required for future on certain specific topics which has been clarified.

**5.1.3 Does the college provide personal enhancement and development schemes for students? If yes, describe techniques employed e.g., career counseling, soft skill development, etc.**

- Yes, the college provides personal enhancement and development through Skill and Career development cell, Act on Dream (AOD) clubs, Entrepreneurship Development Cell (EDC), Professional societies like SAE, CSI, ISTE, IEL, IEEE etc.

The techniques employed can be grouped as follows:



### **Act On Dream (AOD) Clubs:**

AOD is a platform for every single budding engineer of the college. The revolutionary concept of Open-Saturday has been brought into effect that provides a chance for students to act on the dream. Founded in February 2014, AOD is the largest student club at our college over 3000 active members. Open Saturday concept was designed and implemented, where the club members fight the obstacles to their dreams on a daily basis.

- Various clubs have been instituted under AOD by the college for the personal skill enhancement of the students.
- These clubs provide a good platform to each of the students to work and progress towards realizing their dreams.

AOD comprises four main councils which emphasize on both technical and non-technical excellence:

- Team Hype: Extra-curricular and Non-technical Activities,
- Triple Helix: Co-Curricular Technical Activities,
- Scholars on a Cause: Peer-to-peer knowledge imparting sessions and
- Random Acts of Kindness: Social responsibilities and moral activities.

TEAM HYPE includes:

1. Photography
2. Dramatics
3. Music
4. Dance
5. Drawing
6. Modern United Nations (MUN)
7. Literary Society
8. Tamil Mandram

TRIPLE HELIX includes:

9. Photoshop/Graphics/Multimedia
10. Soft Skills/ Communication Skills
11. Programming Language
12. CAD/CAM
13. Web Designing
14. MATLAB
15. Application Development

SCHOLARS ON A CAUSE includes:

16. UPSC/TNPSC

17. Banking
18. GATE
19. GRE/CAT
20. IES/TANCET
21. Foreign Language

RANDOM ACTS OF KINDNESS includes:

22. Green Campus
  23. Street Play/Flash Mob
  24. Awareness Campaign
  25. Act Of Charity
- The Secretary and Joint Secretary are the overall in-charge of the AOD Club activities, they are selected amongst the students on the basis of a written and interview test.
  - There are two faculty members and two student representatives assigned to each of the club for its effective functioning and to provide appropriate guidance to the students.

#### **Skill and Career Development (SCD) Department:**

- The Career Development Programme (CDP) has been introduced in the curriculum from the first semester onwards to enhance the technical aptitude and soft skills of the students.
- Crash course on English communication and soft skills are also provided.
- SCD organizes online tests, mock interviews, Group Discussions etc. to help students hone their skills.
- Value Added Courses / Seminars / Workshop / Guest Lectures etc., are periodically organized.
- SNS defense Academy coaches the students for defense services selection.
- Regular programmes / events are organized in association with professional bodies to enhance the career opportunities and soft skills.

#### **Entrepreneurship Development Cell (EDC)**

- Entrepreneurship Development Cell was established through AICTE funding of Rs.5,25,000/- in order to bring out the entrepreneurship spirit among the students.
- The EDC organizes department level motivational lectures by inviting leading industrialists and entrepreneurs from the various fields.
- So far, 41 graduates have evolved as entrepreneurs in various fields like Manufacturing, IT and Service Sectors.

#### **Industry-Institute Partnership Cell (IIPC)**

The purpose of Professional and Higher Education is to make the students industry ready from day one. The IIPC helps the college towards achieving the following objectives:

- The curriculum is updated periodically in various programmes in close collaboration with industry experts is achieved through the cell which helps to identify the experts in various fields for valuable inputs for curriculum development.
- The knowledge of faculty member is updated according to the need arising from the industry through interaction and industrial visits.
- To help the students acquire the skills necessary for observing the concepts taught in the classrooms and applying them for solving problems faced in the industry.
- To take up consultancy work in the nature of diagnosis and solving problems faced by industry through the available expertise of the faculty members.
- To provide assistance to the industry in the areas of testing the quality checks for of various products and materials as per the industry standards.
- To arrange in-plant training / internship / industry projects / public sector sponsored project to the students.
- To synergize the academic skills of the students with the needs of all types of industries and employers

**5.1.4 Does the College publish its updated prospectus/handbook annually? If yes, what are the activities / information's included / provided to students through these documents? Is there a provision for online access?**

Yes. The institution annually publishes Admission Prospectus, Academic calendar, Symposium Souvenir and Department Newsletter.

**Admission Prospectus:**

- The prospectus has been issued to the students during the time of enquiry and admission.
- The prospectus includes the profile of the college, vision and mission of the college, major facilities like hostel, transport, canteen, etc.,
- It also provides the scholarship details, academic achievement of the college, details of placement etc.,
- The prospectus also illustrates various prestigious awards and accolades won by the college over the previous years.

**Academic Calendar:**

- The Academic calendar includes the general rules and regulations, list of faculty members, programmes offered, curriculum of all programmes and academic schedule for the year.
- The academic calendar is updated annually so as to provide current information to the students and faculty members.

**Souvenir and News Letter:**

- Newsletters / Technical Magazines are published by the various departments every year.

- The Newsletters includes student activities like publication, achievements, University Rank holders and events conducted through department's association.
- The Technical Magazines include the recent trends identified by the students and puzzles.
- The Souvenir includes list of papers presented during symposium by other college participants, articles and depictions of individual department students.

In addition to these, the college website contains all the required information like college profile, department profile, details of IQAC, training and placement, etc. The department Vision, Mission, PEOs and POs are widely published in the websites as well as in their department level publications.

**5.1.5 Specify the type and number of scholarships / freeships given to students (UG/PG/M.Phil/Ph.D/Diploma/others in tabular form) by the College Management during the last four years. Indicate whether the financial aid was available on time.**

- Every year the college provides financial assistance in the form of scholarships and concessions to the eligible students which are made available as and when required to the needy students.
- For this purpose the management allocates a budget of minimum 50 Lakhs annually.
- The college provides single / no parent scholarship for the eligible students.
- Academic toppers of each branch in each semester are encouraged with a scholarship worth of 50% of their fees.
- The College also supports with certain fee concession to the needy students based on their economic background.

The following table shows the details of management scholarship:

| S.No | Type of Scholarships                | Academic year | Number of Beneficiaries | Amount sanctioned in Rs | Grant total |
|------|-------------------------------------|---------------|-------------------------|-------------------------|-------------|
| 1    | Sports / Extracurricular activities | 2012-13       | 4                       | 92,500                  | 2,92,500    |
| 2    | Economically under privileged       | 2012-13       | 9                       | 2,00,000                |             |
|      |                                     | 2013-14       | 35                      | 2,85,000                | 2,85,000    |
|      |                                     | 2014-15       | 37                      | 5,50,000                | 5,50,000    |
|      |                                     | 2015-16       | 60                      | 12,65,000               | 12,65,000   |
| 3    | Academic toppers scholarship        | 2016-17       | 48                      | 16,80,000               | 57,35,000   |
| 4    | Single/No parent scholarship        |               | 116                     | 40,55,000               |             |



**5.1.6 What percentage of students receives financial assistance from state government, central government and other national agencies? (e.g., Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)**

- The college provides adequate and timely information about the various scholarships available to the students.
- A dedicated scholarship section of the college administrative office is responsible to look after the matters related to the scholarships assistance and help the students so as to ensure that various scholarships are also availed from the state government and national agencies.
- The tutors also guide the students in all possible ways to receive the financial assistance to needy students.

The following table shows the details of government scholarships facilitated by the college:

| Year      | Category (No. of students) |                    |                         | Number of students availed scholarship | % of Students benefitted |
|-----------|----------------------------|--------------------|-------------------------|----------------------------------------|--------------------------|
|           | State Government           | Central Government | Other national agencies |                                        |                          |
| 2012 - 13 | 208                        | -                  | -                       | 208                                    | 6.62                     |
| 2013 - 14 | 633                        | -                  | -                       | 633                                    | 17.36                    |
| 2014 - 15 | 1240                       | -                  | -                       | 1240                                   | 31.96                    |
| 2015 - 16 | 975                        | -                  | -                       | 975                                    | 25.53                    |

**5.1.7 Does the college have an International Student Cell to cater to the needs of foreign students? If so, what measures have been taken to attract foreign students?**

- As of now no foreign students are enrolled in the college. Hence the college has not yet constituted the international student cell.
- College shall establish the cell, in case, any foreign students are enrolled.

**5.1.8 What types of support services are available for**

**Overseas students:**

- So far no International students have been enrolled in any of the college programmes.

**Physically challenged / differently abled students:**

College has ensured that all facilities for physically challenged/differently abled students are provided.

- The college has ramp, wheel chair, rest room and lift facilities for differently abled students.

- Essential services in the library, canteen and hostel are extended to differently abled students through the respective faculty members.
- Also, ground floor Class room / hostel rooms / Examination halls are allocated to them for their convenience and easy access.
- The other students are encouraged to help the differently abled students wherever and whenever possible. Most students help their peers on a voluntary basis.
- The management will also provide scholarships to the differently abled students so as to encourage and motivate them.
- From the total approved intake 3% of the seats have been allotted for physically challenged students joining through single window system.

#### **SC/ST, OBC and economically weaker sections**

- The college helps the students to avail all the possible scholarships given by the State and Central Governments.
- The college keeps the students updated with the various scholarships available/announced for the economically weaker sections.
- The college permits such students to pay the tuition fee in two/three installments.
- The tutors guide the students to take up the skill based / value added courses with fee concession through the agencies like MSME, COINDIA etc., to improve their employability skills.
- The tutors guide the students voluntarily to appear for GATE, Government service exams etc., and also help them to avail fee concessions.
- Library book bank facility is available in the campus for SC/ST candidates.
- From the total approved intake 15% of the seats for SC, 1% of the seats for ST and 50% of the seats for OBC have been allotted to the students joining single window system.

Table showing details of support services provided:

| Year      | No. of Beneficiaries  |       |          |                     | Amount Sanctioned in Rs |
|-----------|-----------------------|-------|----------|---------------------|-------------------------|
|           | Physically Challenged | SC/ST | BC / MBC | Economically weaker |                         |
| 2012 - 13 | -                     | 105   | 103      | 13                  | 12,74,079               |
| 2013 - 14 | -                     | 231   | 402      | 35                  | 43,79,150               |
| 2014 - 15 | -                     | 246   | 994      | 37                  | 58,41,950               |
| 2015 - 16 | -                     | 231   | 744      | 60                  | 1,06,15,000             |

### Students to participate in various competitions / conferences in India and abroad:

The students attending seminars/conferences in India and abroad are given On-Duty. The students participating in these events are given a part of the registration fee on merit basis. The facilities such as transportation and accommodation are arranged for the students.

Table showing details of support given for participation:

| Year    | No. of Participant |            |          |            |            |         |            |                                        | Amount Sponsored in Rs. |
|---------|--------------------|------------|----------|------------|------------|---------|------------|----------------------------------------|-------------------------|
|         | International      |            | National |            | Work shops | Seminar | Symposiums | Competitions (Gokart, SAE, Supra, etc) |                         |
|         | Journal            | Conference | Journal  | Conference |            |         |            |                                        |                         |
| 12 – 13 | 81                 | 55         | 1        | 89         | 342        | 14      | 233        | 0                                      | -                       |
| 13 – 14 | 59                 | 87         | 1        | 203        | 487        | 24      | 609        | 28                                     | -                       |
| 14 – 15 | 147                | 237        | 15       | 191        | 1389       | 143     | 739        | 119                                    | 2,05,000                |
| 15 – 16 | 114                | 201        | 2        | 92         | 1737       | 324     | 1620       | 88                                     | 58,000                  |
| 16 – 17 | 109                | 44         | 0        | 16         | 1091       | 59      | 1094       | 32                                     | 1,48,000                |

### Health centre, health insurance etc.

- SNS Trust Subbana Gounder Clinic – A medical service unit of Sri SNS Charitable Trust is started in the year 2014 for providing medical facilities to the students and public. The clinic has a Doctor and a Nurse to provide medical treatment to the needy people at free of cost.
- An ambulance is stationed round the clock to meet any emergency.
- In addition, the college is the nodal point for the state government ambulance service (108) which is stationed in the campus to provide ambulance facilities to the public and neighborhood community.
- Health checkup of students is done by the college periodically through various clubs in association with hospitals.
- The College conducts / hosts various health awareness camps with the help of NGOs and thus creates awareness among the students about health.
- The departments and laboratories are provided with the first aid toolkit for any minor injuries and accidents.
- In addition, fire extinguishers are also available at strategic locations in all blocks of the college buildings.
- Faculty members and students are given awareness and demonstrations regarding the usage and administration of these fire safety equipment.
- The hostels and the canteens are maintained hygienically and regular monitoring is done on food and hygiene conditions.
- The staff and the students are covered under the health insurance cover of Rs 50,000/-, in case of death or any other casualty arising out of accidents.
- Non teaching staffs are trained to give first aid in case of accidental injuries and other hazards.
- Altogether, the college ensures that adequate measures are in place for health and safety of all members.

### **Skill development (Spoken English, Computer literacy Etc.,)**

- The college has the Skill and Career Development cell which functions in parallel with all the departments.
- The cell has a dedicated team of talented faculty members import the necessary skills for training and placements related activities.
- The Career development courses are included from first year onwards so as to improve the skills of the students. A minimum of 4 hours in a week is dedicated to the training and placement activities such as Soft skill development, Aptitude, Computer proficiency etc.
- A course on Fundamentals of Computing and Programming (FOCP) has been included in the curriculum for all UG programmes to develop and improve the computing skills on their respective domain.
- College conducts events during computer literacy day and software freedom day every year to create citizenship values among students.
- All UG programmes from second year onwards have seminar hours in their regular time table (Saturday), where the students are able to develop their communication skills by giving seminar on the various topics.
- Communication skills are enhanced through communication laboratory course for all UG programmes by using Globarena Software. Further, special classes are conducted in the evening hours for interested students to improve the spoken English.
- Individual attention is rendered to the students particularly for those who are coming from rural background and lacks in communication skills.
- The students get ample opportunity to develop their personality through group discussions, seminar, talks etc., which are frequently conducted.

The various courses conducted for skill development are given in the table below:

| <b>Year</b> | <b>Name of the Course</b>                                                     | <b>No. of Hours</b> | <b>Number of Beneficiaries</b> |
|-------------|-------------------------------------------------------------------------------|---------------------|--------------------------------|
| 2012 - 13   | Personality skill development program                                         | 53                  | 187                            |
|             | C, C++, J2EE, C#.net                                                          | 90                  | 181                            |
|             | Value added course on role of computer programming in engineering application | 8                   | 60                             |
| 2013 - 14   | Introduction to C, C++, J2EE, C#.net                                          | 90                  | 172                            |
|             | Basic Electrical Switches and Panel Wiring                                    | 8                   | 58                             |
|             | Personality Skill Development Program                                         | 45                  | 393                            |
| 2014 - 15   | Career Development Program                                                    | 45                  | 402                            |
|             | Introduction to ORCAD, PCB Design                                             | 16                  | 194                            |
|             | Introduction to C, C++, J2EE, C#.net                                          | 90                  | 151                            |
|             | Communication development forum                                               | 9                   | 107                            |
| 2015 - 16   | Introduction to C, VLSI, Antenna design and                                   | 200                 | 138                            |

|           |                                          |     |     |
|-----------|------------------------------------------|-----|-----|
|           | MATLAB                                   |     |     |
|           | Career Development program               | 136 | 592 |
|           | Introduction to C, HTML, Data structures | 80  | 104 |
|           | Introduction to MATLAB-simulink          | 16  | 116 |
|           | Introduction to CREO                     | 60  | 75  |
|           | Introduction to Ansys                    | 60  | 11  |
|           | CFD                                      | 60  | 15  |
| 2016 - 17 | Programming data structure and algorithm | 20  | 3   |
|           | Fabrication of LED                       | 8   | 40  |
|           | Career development program               | 45  | 485 |
|           | Training in analysis Software (Ansys)    | 60  | 34  |

### **Performance enhancement for slow learners / students who are at risk of failure and dropouts**

#### **Drop outs:**

- The college has a very low dropout rate which shows that appropriate encouragement and support services are given to the students.
- Personal counseling and encouragement is given by the college to the students to dissuade them from dropping out.

The drop out details is given in the following table:

|                             | <b>2009-13</b> | <b>2010-14</b> | <b>2011-15</b> | <b>2012-16</b> |
|-----------------------------|----------------|----------------|----------------|----------------|
| Number of students admitted | 836            | 880            | 1059           | 1083           |
| Number of students dropout  | 36             | 29             | 42             | 45             |
| Dropout %                   | 4.3            | 3.29           | 3.96           | 4.15           |

#### **Slow learners:**

- Slow learners are identified through class room observations, performance in internal assessment tests and previous end semester examination results.
- The tutors arrange special coaching classes for the slow learners after the regular working hours and thus individual attention is given to them during these hours.

#### **Table showing details of slow learners support by various departments:**

| <b>Academic Year</b> | <b>No. of Hours Conducted</b> | <b>No. of Beneficiaries</b> | <b>No. of student cleared/enhanced</b> |
|----------------------|-------------------------------|-----------------------------|----------------------------------------|
| 2012-13              | 1516                          | 2634                        | 1422                                   |
| 2013-14              | 1456                          | 2785                        | 1208                                   |

|         |      |      |      |
|---------|------|------|------|
| 2014-15 | 1496 | 2234 | 1293 |
| 2015-16 | 1358 | 1972 | 1182 |
| 2016-17 | 957  | 1620 | 1097 |

**Exposure of students to other institutions for higher learning/corporates/business houses, etc.**

- Guest lectures by experienced and eminent persons from industries are arranged for giving the students an insight view of industries.
- Students are encouraged to participate in large numbers in competitions and events organized by other higher learning institutions.
- The experienced resource persons from reputed GATE coaching institutes like Vani and GATE forum are invited to give seminar talks on the various competitive exams, higher studies and its future scope.
- Summer and winter trainings / internships are arranged through IIPC cell and academic departments. Industrial visits and field trips are regularly scheduled for all UG and PG students.
- The students are also given information about the various schemes by the government for encouragement of entrepreneurship.

**Table showing the participation details of students in other institutions:**

| Year      | No. of students participated in |                                                      |                               |
|-----------|---------------------------------|------------------------------------------------------|-------------------------------|
|           | Events at IIT/NIT/IISc etc      | IV / IPT / Internship at corporates, Business houses | Internship at local companies |
| 2012 - 13 | 4                               | 980                                                  | 70                            |
| 2013 - 14 | 5                               | 1359                                                 | 126                           |
| 2014 - 15 | 55                              | 2403                                                 | 144                           |
| 2015 - 16 | 88                              | 2132                                                 | 224                           |
| 2016 - 17 | 32                              | 1627                                                 | 131                           |

**Publication of student magazines**

- Newsletters / Technical Magazines are published by the department of different disciplines every year.
- Souvenirs are published during the various National/International symposium conducted by the college.

The details of magazines published by various departments of the college are shown in the following table:

| S.No | Name of the Magazine | Department | No. of issues / year |
|------|----------------------|------------|----------------------|
| 1    | Technical Magazine   | CSE        | Annually             |
| 2    | RYB News Letter      | EEE        | Annually             |

|    |                     |       |             |
|----|---------------------|-------|-------------|
| 3  | PROZAC              | IT    | Annually    |
| 4  | NCNICS Proceedings  | IT    | Annually    |
| 5  | News Letter         | IT    | Annually    |
| 6  | Kernelianz Souvenir | IT    | Annually    |
| 7  | Festuary Souvenir   | IT    | Annually    |
| 8  | Souvenir            | AERO  | Annually    |
| 9  | News letter         | AERO  | Annually    |
| 10 | RESONANCE           | ECE   | Annually    |
| 11 | EZIONICS            | ECE   | Annually    |
| 12 | TECHTRONIX          | ECE   | Annually    |
| 13 | News Letter         | MECH  | Half yearly |
| 14 | Technical Magazine  | MECH  | Half yearly |
| 15 | Souvenir            | MECH  | Annually    |
| 16 | Souvenir            | MCT   | Annually    |
| 17 | News letter         | MCT   | Annually    |
| 18 | Souvenir            | CIVIL | Annually    |
| 19 | Folleto             | MBA   | Half yearly |

**5.1.9 Does the college provide guidance / coaching classes for Civil services, Defense Services, NET / SLET and any other competitive examinations? If yes, what is the outcome?**

- Yes. The college provides adequate guidance to the students for the competitive exams.
- The college conducts AOD club activities once in a month (Saturday) for II and III year students and awareness about these exams are created during the events.
- Various clubs are created to help the students take up competitive exams, some of which are: GATE club, UPSC/TNPSC club, GRE club and other such clubs for National level competitions and exams.
- Each club functions under the guidance of the faculty members who have sound knowledge about that particular competitive examination and they stay updated regarding and recent changes.
- The AOD club also organizes guest lecturers for the students, where experts from different fields (Industry, Academic etc.) share their expertise and experience with the students.

- The SNS Defence academy gives ample information and training on the Defense recruitment procedure, necessary training and keeps them well informed about the various entry schemes to get into Defense and other allied services.
- The college library houses a separate section for the competitive examinations where all the related materials and previous year question papers can be easily accessed by the students. This facilitates adequate practice for students.
- The department faculty members regularly inform the schedules of competitive exams to the students and motivate them to participate.

**5.1.10 Mention the policies of the college for enhancing student participation in sports and extracurricular activities through strategies such as Additional academic support, flexibility in examinations, Special dietary requirements, sports uniform and materials and any other**

The college encourages the students to participate in sports and extra-curricular events by providing ample facilities and support as follows:

**Additional Academic support and flexibility in examinations**

- The college provides on duty to the students who are participating in national/state level competitions.
- Students who took On Duty leaves(OD) for sports and extra-curricular activities get academic support from the faculty members during the lunch and evening hours of regular working days.
- The college conducts retest for the students availing on duty for internal assessment exams.
- Sports hour has been included in the time table for first year students. Students are given March past training, fitness skill training, event skills training.
- The AOD club activities are conducted once in a month (Saturday) for the students to enhance their capabilities apart from academics.

**Special dietary requirements, sports uniform and materials**

- The selected students are kept on proper dietary plans by the physical director and the special coaches.
- The college also provides uniforms to the college teams representing the college at state or national level.
- Musical instruments worth of Rs.118520/- is procured to help the students excel in extracurricular activities.
- Sports materials and kits are made available to use by students during practice sessions.

**Any other**

- Due weightage is given for sports and extra-curricular participation while selecting the best outgoing student (BOG).



- The college provides travelling allowance to students representing the college at state or national level.
- The college also conducts sports day every academic year, where various sports events are conducted and the winners are felicitated with prizes.
- The college gives fee concession for the students with good sports background.
- The various sports clubs are also functional in the college for example cricket, football, volleyball etc.,
- The college appoints individual coaches for volley ball and basketball and special coaching is provided to the selected students.

**5.1.11 Does the college have an institutionalized mechanism for placement of its students? What services are provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?**

- The college has a dedicated placement cell, which is responsible for and coordinates all the placement related activities.
- The placement cell ensures that the students are well aware of all the job opportunities and organizes campus placement drives.
- They facilitate students for off campus drives that are conducted by Anna University and other bodies.
- Pooled campus drive is also conducted in the college in which other college eligible students are also permitted to attend the placement drive.
- College also permits the students to attend pool campus drive at other colleges.
- The college maintains cordial relations with the companies and arranges campus placements for the students.
- The college also gets its students recruited through the help of alumni.
- The college also has good relations with other peer colleges, which helps the college to send its students for off-campus placements as well.
- The college is regularly in touch with and signs agreements and MoU's with various industries, placement agencies for the enhancement of the placement status of the college.
- The college maintains high standards for the placements and provides a proper uniform to the students for attending the placements activities.
- Separate online aptitude tests and mock interviews are frequently conducted in the college for the final year students so as to keep the students interview ready.
- Department contribution: Department arranges Inplant training / Internship / Industrial project / placement through MoU signed companies for interested students.
- Entrepreneurship Development Cell (EDC): EDC organizes training programmes on establishing and managing industrial units, workshops for students for

acquiring special skills, entrepreneurship development program and seminars to become successful entrepreneurs.

- The cell assists the students to get bank loans, selection of staff and workers and dealing with day to day problems in their business.

**5.1.12 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus annually for the last four years).**

**Placement status of the college:**

| Year    | No of Companies Visited | No of Eligible Students | No of Students selected | Placement % |
|---------|-------------------------|-------------------------|-------------------------|-------------|
| 2012-13 | 24                      | 523                     | 273                     | 52.19       |
| 2013-14 | 34                      | 558                     | 313                     | 56.09       |
| 2014-15 | 87                      | 682                     | 517                     | 75.8        |
| 2015-16 | 85                      | 712                     | 593                     | 83.28       |
| 2016-17 | 49                      | 849                     | 431                     | 50.77       |

**Details of Companies visited:**

| S.No | Academic year | Name of the company                          | S.No | Name of the company           |
|------|---------------|----------------------------------------------|------|-------------------------------|
| 1    | 2012-2013     | Shoppers Stop                                | 13   | HCL B Serv                    |
| 2    |               | Weblite Infotech                             | 14   | Dimensions                    |
| 3    |               | ATLAS Healthcare Software India Private Ltd. | 15   | Precision informatics         |
| 4    |               | HCL Technologies                             | 16   | Legend Technologies           |
| 5    |               | Sundaram Direct                              | 17   | S & T Groups                  |
| 6    |               | C-Cubed Solutions                            | 18   | Orions System Private Limited |
| 7    |               | AON - Hewitt                                 | 19   | Sutherland Global Services    |
| 8    |               | Accell IT Resources                          | 20   | Trinetra                      |
| 9    |               | ICICI Securities                             | 21   | Tech Mahindra - BPO           |
| 10   |               | CSS Corp                                     | 22   | Aqua Pure Plus                |
| 11   |               | Angulur Technologies                         | 23   | Sri Kandan Engineerings       |
| 12   |               | CTS IT IS                                    | 24   | 365 Media                     |
| 1    | 2013-2014     | Precot Textiles                              | 18   | Tech Mahindra                 |
| 2    |               | Syntel Ltd.                                  | 19   | Sriram Industries             |
| 3    |               | Everonn Systems                              | 20   | IBM                           |
| 4    |               | DELL                                         | 21   | Sutherland                    |
| 5    |               | Ilink Multitech Solutions                    | 22   | Physics Business Consultant   |
| 6    |               | L & T Infotech                               | 23   | HP                            |
| 7    |               | DSM Infocom Pvt Ltd.                         | 24   | Nile Stream                   |
| 8    |               | Sans Pareil                                  | 25   | CSS Corp                      |
| 9    |               | Vee Technologies                             | 26   | TCS                           |
| 10   |               | Femtosoft                                    | 27   | C Cubed Solutions             |

|    |           |                                      |    |                                   |
|----|-----------|--------------------------------------|----|-----------------------------------|
| 11 |           | Stark Techno Sys                     | 28 | E Care                            |
| 12 |           | SFO Technologies                     | 29 | E4e                               |
| 13 |           | CTS, Mahendra                        | 30 | SL Lumax                          |
| 14 |           | IDBI                                 | 31 | SKTM                              |
| 15 |           | Tech Mahindra IES                    | 32 | KGISL                             |
| 16 |           | Verticurl                            | 33 | HCL B Serv                        |
| 17 |           | Infosys                              | 34 | Salzer Electronics                |
| 1  |           | Analog And Digital                   | 44 | ULTRA READY MIX PLANT ,Coimbatore |
| 2  |           | Face                                 | 45 | SGBS UNNATI FOUNDATION            |
| 3  |           | Aquasub Engineering                  | 46 | Atom Technologies                 |
| 4  |           | Johnson Electrics                    | 47 | VDart Software Services           |
| 5  |           | LGB & Bros                           | 48 | Bandwidth Solutions               |
| 6  |           | Sundaram Brake Lines                 | 49 | Victory Placement Services        |
| 7  |           | Tech Mahindra                        | 50 | CADD TECHNOLOGIES                 |
| 8  |           | Softway Solutions                    | 51 | CSS CORP                          |
| 9  |           | HP                                   | 52 | Landmark Constructions            |
| 10 |           | Hakuna Matata                        | 53 | Altius Technologies               |
| 11 |           | MPhasis                              | 54 | Yatho Electronics & Engg          |
| 12 |           | Reliance Communications              | 55 | KK Thangamuthu                    |
| 13 |           | CYGNUS Software                      | 56 | JMJ Housing Ltd                   |
| 14 |           | EP Software Technologies             | 57 | Miracle                           |
| 15 |           | ZOHO Corporation                     | 58 | TVS Sundaram                      |
| 16 |           | IDBI Federal                         | 59 | Hinduja Global                    |
| 17 |           | Bajaj Capital                        | 60 | Mindnotix                         |
| 18 |           | Sundaram Finance                     | 61 | Max Switch and Gears              |
| 19 |           | Polaris Consulting and Services Ltd. | 62 | Sri Krishna Associates            |
| 20 | 2014-2015 | Hash Tag Technologies                | 63 | Maha Pile Foundations             |
| 21 |           | Accenture                            | 64 | Techno Solution                   |
| 22 |           | CTS                                  | 65 | Aditi Technologies                |
| 23 |           | Verticurl                            | 66 | Raj Shruthi Constructions         |
| 24 |           | Paul Medical Systems                 | 67 | Seyyone                           |
| 25 |           | Business Media Nexus                 | 68 | Chandra Hyundai                   |
| 26 |           | CEGONSOFT                            | 69 | NIIT                              |
| 27 |           | Easy Design                          | 70 | HCL State Street                  |
| 28 |           | Hexaware                             | 71 | AON Hewitt                        |
| 29 |           | American Mega Trends                 | 72 | Arun Machinery Works              |
| 30 |           | Digital Nirvana                      | 73 | JK Engineering                    |
| 31 |           | Shoppers Stop                        | 74 | LGB                               |
| 32 |           | iNoble Solutions                     | 75 | Xplore IT                         |
| 33 |           | Infosys                              | 76 | TATA Motors                       |
| 34 |           | Redwan Technologies                  | 77 | HCL B Serv                        |
| 35 |           | Excel Mechatronics India Pvt .Ltd    | 78 | Adhi Honda                        |
| 36 |           | Ram Prasath Tubes & Bars             | 79 | IDBI Bank                         |
| 37 |           | Infence Technologies                 | 80 | Sree Ram Industries               |
| 38 |           | PR Industries                        | 81 | Ammarun Foundary                  |

|    |           |                                |    |                                     |
|----|-----------|--------------------------------|----|-------------------------------------|
| 39 |           | Cloud Telematics               | 82 | Hema Rubber Moulding Works          |
| 40 |           | Real Works Studio              | 83 | Infoghana                           |
| 41 |           | Skypro                         | 84 | Systematic Service Solutions        |
| 42 |           | Religare                       | 85 | ROBERT BOSCH                        |
| 43 |           | Dev Solar                      | 86 | Sutherland                          |
| 1  |           | Tech Mahindra                  | 44 | ACCENT Techno Soft                  |
| 2  |           | UST Global                     | 45 | Sanmar Engineering                  |
| 3  |           | Vinayak Infotech               | 46 | CTS - AU Pooled                     |
| 4  |           | YRSK                           | 47 | LGB                                 |
| 5  |           | DIEBOLD                        | 48 | KGISL                               |
| 6  |           | CGVAK                          | 49 | Mahindra Finance                    |
| 7  |           | Mettler Toledo Turing Software | 50 | Infosys - AU Pooled                 |
| 8  |           | ZOHO Corp                      | 51 | Velan Info Services                 |
| 9  |           | Agnito Systems                 | 52 | Payoda                              |
| 10 |           | Vernalis Systems               | 53 | CSS Corp                            |
| 11 |           | Jaro Education                 | 54 | Digital Nirvana                     |
| 12 |           | Redington India                | 55 | Enterprise IT Solutions             |
| 13 |           | New Age Sys Inc                | 56 | SQUASH APPS                         |
| 14 |           | Skava Systems                  | 57 | VDart Software Services             |
| 15 |           | HDFC Life                      | 58 | City Union Bank                     |
| 16 |           | Altius Technologies            | 59 | TVS & Sons (MBA)                    |
| 17 |           | Vertex Solutions               | 60 | Think Mind Technologies             |
| 18 |           | SHLOKLABS                      | 61 | Solvers India                       |
| 19 |           | Lucid Technologies             | 62 | Ventura Omnitech                    |
| 20 |           | CA DEPLOY                      | 63 | CREDILA FINANCIAL SERVICES          |
| 21 | 2015-2016 | IDBI Federal                   | 64 | Hakuna Matata                       |
| 22 |           | HP                             | 65 | ZOHO Corp                           |
| 23 |           | MPhasis                        | 66 | Thriveni Earth Movers               |
| 24 |           | Aegon Religare                 | 67 | Sutherland Global                   |
| 25 |           | Karsan Technologies            | 68 | NDOT Technologies                   |
| 26 |           | DAR Jewellery                  | 69 | AEGIS GLOBAL                        |
| 27 |           | Verticurl                      | 70 | VEE Technologies                    |
| 28 |           | Epic Solutions                 | 71 | INKA Automation                     |
| 29 |           | iInterchange                   | 72 | EP Technologies                     |
| 30 |           | Codilar                        | 73 | AEE BEE Technologies ( ME Students) |
| 31 |           | IVTL - Infoview                | 74 | American Mega Tends                 |
| 32 |           | Knonex                         | 75 | Elitmus                             |
| 33 |           | CYGNUS                         | 76 | Optimal CNC Engineering             |
| 34 |           | IBM                            | 77 | R. R. Ready Mix Plant               |
| 35 |           | NEXUS GLOBAL SOLUTIONS         | 78 | Personiv                            |
| 36 |           | Exide Life Insurance           | 79 | Ventura Pumps                       |
| 37 |           | Softway Solutions, Bangalore   | 80 | GoDB Technologies                   |
| 38 |           | Hirotec India Private Limited  | 81 | ENOAH                               |

|    |         |                          |    |                        |
|----|---------|--------------------------|----|------------------------|
| 39 |         | Mahathi Infotech         | 82 | Tech Unisan            |
| 40 |         | Verticurl - MBA Students | 83 | Bandwidth              |
| 41 |         | HR Cube                  | 84 | Blovia                 |
| 42 |         | Aagna Corporate Services | 85 | Ingenious Info Systems |
| 43 |         | Majestic                 |    |                        |
| 1  | 2016-17 | Tech Mahindra            | 6  | AMAZON                 |
| 2  |         | IBM                      | 7  | Wellcraft              |
| 3  |         | Kaar Tech                | 8  | HTC Global             |
| 4  |         | FSS                      | 9  | CSS Crop               |
| 5  |         | KGISL                    | 10 | 3W Tech                |

**5.1.13 Does the College have a registered Alumni association? If yes, what are its activities and contributions to the development of the college?**

- Yes the college has a registered alumni association, known by the name SNSCT Alumni Association.
- The Association is headed by the Principal, who is the President of the association, and working in close proximity are the Vice President, Secretary and Joint Secretary of the association. All these members form the core of the association.
- All the passed out students of the college are members of this association and they meet twice every year.
- The college keeps track of its passed out students and is in contact with its distinguished alumnus.
- Every department organizes guest lectures, workshops etc, by inviting the renowned alumni as resource person which helps in inspiring the young minds of the college.
- The college also gets the feedback from the alumni regarding various academic aspects.
- Alumni members also represent in the board of studies of all boards and contribute in framing the curriculum and syllabi offered by the college.

**Data on Alumni Guest Lecture / Interaction for the last five years**

**Help rendered by alumni for placement (related services also) from placement office/department may also be added**

Alumni from reputed industries has frequently invited for guest lecture, seminar and workshops as resource persons.

| S. No | Academic year | Guest lecture / Seminar                        | Resource person                                            | Beneficiaries |
|-------|---------------|------------------------------------------------|------------------------------------------------------------|---------------|
| 1     | 2012-13       | Guest lecture                                  | M.Obuli Srinivasan, L & T                                  | 65            |
|       |               | Guest lecture                                  | S.Pradeep Kumar, Pursuing M.E, Sona College of Engineering | 64            |
|       |               | Guest lecture                                  | E.Praveenkumar, L & T                                      | 66            |
|       |               | Interaction With Students Regarding Placements | Iyswarya.J, Tech Mahindra, Chennai                         | 50            |
| 2     | 2013-14       | Career Guidance                                | Mr.O.Obuli Srinivasan, Software developer, Kudelski Group, | 66            |

|   |         |                                                           |                                                                                          |     |
|---|---------|-----------------------------------------------------------|------------------------------------------------------------------------------------------|-----|
|   |         |                                                           | Bangalore                                                                                |     |
|   |         | Skill Development                                         | Mr.S.Pradeepkumar Assistant professor JCT College of Technology, Coimbatore              | 66  |
|   |         | Web Designing                                             | P.Mohan Prasanth RR DONELLY, Chennai                                                     | 45  |
|   |         | career guidance                                           | Gogul.K, IBM, Chennai                                                                    | 48  |
|   |         | Graphics                                                  | Jawahar.G-Film Industry, Chennai                                                         | 52  |
|   |         | Guest Lecture                                             | (Alumni-2011 Mechanical Passed out batch) Project Consultant, Mercedes Benz Ltd, Germany | 60  |
|   |         | Guest lecture on “Job opportunities at atlas health care” | Santhoshkumar, MA ATLAS Healthcare Software, Coimbatore                                  | 88  |
|   |         | Guest lecture on “Job opportunities in Java Based tech”   | Dharmaraj, I Noble Solutions, Coimbatore                                                 | 60  |
|   |         | Guest lecture on “Job opportunities in Java Based tech”   | M.Murali (2008-11), ALHOSNI International, Muscat                                        | 65  |
|   |         | Guest Lecture Higher education in abroad                  | Mr.NIVAS, Engineer (R & D), Mercedes Benz, Germany.                                      | 69  |
|   |         | Guest Lecture Current Industrial Scenario                 | Mr.Arunkumar Alumni, Engineer, Simsons International, Chennai                            | 69  |
| 3 | 2014-15 | Communication skill Development                           | S.Nandha Kishore Retail Associate, Communication skill Development                       | 61  |
|   |         | Personality Development                                   | Bibin Baby, Lecturer, Info Institute of Technology, Coimbatore.                          | 56  |
|   |         | Computer Aided Manufacturing                              | Saravanakumar.C.M Quality- Supervisor, CRI Pumps, Coimbatore.                            | 61  |
|   |         | GPRS                                                      | Mohammed Niyasudeen.V Core Logistics Pvt Ltd                                             | 56  |
|   |         | Computational Fluid Dynamics                              | Elavarasan.S, Trainee, Sigma Consultancy Services, Coimbatore                            | 56  |
|   |         | Guest Lecture                                             | Mr.S.Baskar Technical Engineer Caliber Technologies Pvt.Ltd Coimbatore                   | 220 |
|   |         | Guest Lecture                                             | Mr.S.Lokeshkumar Assistant Professor/ECE Kumaraguru College of Technology Coimbatore     | 240 |
|   |         | Career Guidance                                           | Mr.O.Obuli Srinivasan, Software                                                          | 66  |

|   |         |                                                                  |                                                                               |     |
|---|---------|------------------------------------------------------------------|-------------------------------------------------------------------------------|-----|
|   |         |                                                                  | developer, Kudelski Group, Bangalore                                          |     |
|   |         | Skill Development                                                | Mr.R.Abinesh Software Developer RBEI, Coimbatore                              | 62  |
|   |         | Web Designing                                                    | N. Dinesh Kumar                                                               | 62  |
|   |         | How to do Higher studies in abroad                               | U.VArun Chakaravarthi                                                         | 30  |
|   |         | Employability and Industry Today                                 | R.Gokul Krishna                                                               | 30  |
|   |         | Reconciliaton                                                    | G.Manikandaraj                                                                | 25  |
|   |         | Java Programming Basics                                          | J.Jeyakumar                                                                   | 52  |
|   |         | Guest lecture on “Java Server Faces”                             | Indeerjeet Khurjonhs, Academic Trainer, iNoble Solutions, Coimbatore          | 70  |
|   |         | Workshop on “Java Server Faces”                                  | Indeerjeet Khur onhs, freelancer, Assistance by : iNoble Solution             | 27  |
|   |         | Guest Lecture CFD And Its Applications In Engineering Industry   | Mr.S.Ajith Robert Bosch Engineering Solutions, Coimbatore.                    | 70  |
| 4 | 2015-16 | Career After Engineering                                         | Santhosh Kumar.M M.Tech, Aerospace Engineering Madras Institute of Technology | 46  |
|   |         | Estimation & Costing                                             | S.Subash, Vijaya& Co, Coimbatore.                                             | 200 |
|   |         | “Higher Studies and Opportunities in International Universities” | Mr.B.Thirunavukarasu,                                                         | 34  |
|   |         | Guest Lecture                                                    | Mr.G.Jegan 2/60 pallimanaimanjoor, kundha(po) The Nilgiris                    | 128 |
|   |         | Guest Lecture                                                    | Mr.R.Ashwanth Rainbow solar, Coimbatore                                       | 62  |
|   |         | Guest Lecture                                                    | Mr.VigneshDurai                                                               | 64  |
|   |         | Guest Lecture                                                    | Mr.S.Yuvaraj Sales care, Renewables pvt.ltd                                   | 63  |
|   |         | Guest Lecture                                                    | Mr.D.Vignesh TCS, Chennai                                                     | 64  |
|   |         | Guest Lecture                                                    | Mr.N.Tamilselvan Pricol info tech Coimbatore                                  | 58  |
|   |         | Guest Lecture                                                    | Mr.Meivelraja JC Batteries, Coimbatore                                        | 65  |
|   |         | How to prepare for Placement                                     | R.Vineeth,                                                                    | 48  |
|   |         | Making 360 degree video                                          | Aravind., Yali Studios, Coimbatore                                            | 48  |
|   |         | Mainframe                                                        | Praveen.P, UST Global Technologies, Cochin.                                   | 48  |
|   |         | Usage of NPTEL                                                   | Nithin.H,                                                                     | 50  |

|  |                                                                  |                                                                       |     |
|--|------------------------------------------------------------------|-----------------------------------------------------------------------|-----|
|  |                                                                  | Pursing MBA, NITK, Surathkl                                           |     |
|  | Carrier Motivation Talk                                          | Mimansa, L&T Bangalore.                                               | 120 |
|  | Guest Lecture                                                    | Aswin (Alumini Student)                                               | 60  |
|  | Guest Lecture                                                    | Mithun (Alumini Student)                                              | 70  |
|  | Guest Lecture                                                    | Mr. Gokul Nath (Alumni)                                               | 70  |
|  | Guest Lecture                                                    | Mr.Rajkumar (Alumni)                                                  | 60  |
|  | Guest lecture                                                    | Nivas Devendr (Alumni)                                                | 70  |
|  | Guest lecture on “Java Technologies”                             | Thambi & Udayakuar (2012-15), Developers, Cygnus Software, Coimbatore | 24  |
|  | Guest Lecture on “Multimedia in Cini Industry”                   | Mr.K.Prasath (2012-15), Model Designer, Real Works Studio, Coimbatore | 22  |
|  | Guest lecture on “Healthcare ERP”                                | Ryonsimon (2012-15), Cochin, Kerala                                   | 24  |
|  | Guest Lecture on “Career in Android app development”             | Mr.A.Rajesh Kumar (2012-15), App Developer, Mindnotix, Coimbatore     | 25  |
|  | Career Development & Guidance                                    | Er.T.Bharath, JRF PSG college of Technology, Coimbatore               | 68  |
|  | Anti lock Braking System (ABS)                                   | Er.R.Mohan, Associate Engineer, Robert Bosch, Coimbatore              | 68  |
|  | Guest Lecture Opportunities In Indian Navy                       | Lt.S.B.Ashiq Indian Navy Officer.                                     | 69  |
|  | Guest Lecture Tips For An Interview And Effective Resume Writing | Mr.G.Joshua Samuel, Alumni, 2011-15 Batch.                            | 68  |
|  | Alumni Guest Lecture, How To Develop Yourself In Your Future     | Mr.G.Joshua Samuel, Alumni, 2011-15 Batches.                          | 68  |
|  | Preparation for Competitive Exams and Carrier Guidance           | Mr.K.Santhosh Kumar, Project Assistant, IIT, Madras                   | 68  |



**5.1.14 Does the college have a student grievance redressal cell? Give details for the nature of grievances reported and how they were redressed.**

The Grievance Redressal Committee is formed as per Clause 1 of section 23 of the AICTE Act, 1987 (52 of 1987) AICTE. The Committee has been formed to provide easy and readily accessible machinery for prompt disposal of the day to day genuine grievance of the students and to make the students to pursue their education in a congenial atmosphere. The committee headed by the Principal looks into the grievances of the students based on the complaints received from the students. The person concerned with any grievance shall give a written letter with all possible facts and documentation and submit it to the Principal's office. The grievances submitted by the students are addressed in a systematical manner to maintain necessary confidentiality in the handling process. The committee will investigate into the matter and shall try to resolve it as quickly as possible.

**Issues reported during last 4 years and remedial action taken is given as below:**

| Year    | Issue Reported/Requests                                       | Remedial action taken                                                                                               |
|---------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 2012-13 | Request to increase number of days of industrial visit.       | Days increased<br>2 days – II year<br>3 days – III year<br>4 days – IV year                                         |
| 2013-14 | Request for extra counters in canteen                         | Two additional counters opened                                                                                      |
|         | Requests for open Saturday for extracurricular activities     | Every month 3 <sup>rd</sup> Saturday declared as open Saturday for improvements in extracurricular activities       |
| 2014-15 | AOD activities and MUN conference requested                   | AOD activities initiated and MUN conference is being conducted.                                                     |
|         | Common technical symposium requested                          | Texperia – Common Symposium is organized.                                                                           |
| 2015-16 | Monetary assistance for national level competitions requested | Management accepted the idea of monetary assistance to our students for taking part in national level competitions. |
|         | News papers to classroom requested                            | News paper is being sent to all the classes on all working days.                                                    |
|         | Additional Indoor sports facilities requested                 | Additional Badminton courts have been created.                                                                      |

**5.1.15 Does the college have a cell and mechanism to resolve issues of sexual harassment?**

- The college strictly follows the policy of “Zero tolerance for sexual harassment”.
- The college has a monitoring system in place to resolve issues related to sexual harassment.
- Strict action is taken against any offenders.

- The Hostels are provided with adequate security measures to avoid any problem related to sexual harassment.
- There are strict rules to ensure that students abide by the security measures.

The Committee is instrument in addressing the issues of sexual harassment and recommending their redressal in a time-bound manner. The committee consists of one Senior Women Professor of the institution as Co-Ordinator, one women external member and other faculty members. No sexual harassment issues reported so far.

**5.1.16 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?**

- Yes. There is an anti ragging committee constituted in the college which makes sure that ragging in any of the form doesn't takes place inside the campus.

Present members:

- Dr.S.Chenthur Pandian, Principal, SNSCT - Chairman.
- Mr.A.V.Elamurugan, Inspector of police - Member
- Ms.S.Madhuranthagi Revenue/Taluk/Civil/Officer – Member
- Mr.T.Chinnayan, Ex-ward member – Member
- Mr.V.Shanmugam, Representatives of parents – Member
- Ms. S.Mirunalinii, Student – Member
- Mr.Soundar, Student – Member
- Mr.V.Datchinamoorthy, Representatives of non-teaching - Member
- Ragging related information of UGC is displayed in prominent locations.
- During the First year orientation programme, every year, students have been given with enough information on anti ragging committee and the phone numbers to contact, in case of any incidents.
- Each department is assigned with the duty to monitor the ragging in the campus during the college hours on a weekly rotation basis.
- No Ragging instances have taken place during the last four years.
- During the admission every student and their parent is required to sign the anti-ragging affidavit to maintain ragging free campus.

**5.1.17 How does the college elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co – curricular activities, research, community orientation, etc.?**

- Different stake holders are members in different bodies of our college like Governing council, Academic council, Board of studies, IQAC etc. The

contribution of stake holders during the meeting of different bodies help to develop curriculum, syllabi and further enhances the participation of students in co-curricular, extracurricular and research activities.

- The college regularly conducts the parent-teachers meeting where the performance of the student is discussed with his/her parents.
- The college keeps the parents informed about the performance of their ward through SMS, posts and telephone on a regular basis.
- Also college is serious about the discipline of the college and for those who are absent for the class, message is sent to their parents regarding the same.
- The college also regularly arranges the guest lecture/seminar/workshop through Alumni, academicians and industry experts.
- The Career Development Programme courses are inducted into the curriculum so as to prepare the students for better placement possibilities.
- Faculty members are helping the students on their projects/Industrial visits/Inplant trainings, so that they exposed for currents trends.
- Faculty members guide students to become professional society members and involve the professional society activities. Also they guide to take up the courses related to their career.
- Tutors, guide their wards, frequently, in indentifying and taking the kind of co-curricular and extracurricular activities in every semester.

| <b>Year</b> | <b>Stake holder relationship<br/>(Industry / Academic /<br/>Alumni / Parent /<br/>community)</b> | <b>Event (Guest<br/>lecture(GL)/Seminar/Inte<br/>rnship/Placement)</b> | <b>No. of<br/>Events</b> |
|-------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------|
| 2012 - 13   | Industry                                                                                         | GL, Seminar                                                            | 54                       |
|             | Academic                                                                                         | GL, Seminar                                                            | 15                       |
|             | Alumni                                                                                           | GL                                                                     | 5                        |
|             | Community                                                                                        | Awareness programme                                                    | 0                        |
| 2013 - 14   | Industry                                                                                         | GL, Seminar                                                            | 58                       |
|             | Academic                                                                                         | GL, Seminar                                                            | 11                       |
|             | Alumni                                                                                           | GL                                                                     | 9                        |
|             | Community                                                                                        | Awareness programme                                                    | 0                        |
| 2014 - 15   | Industry                                                                                         | GL, Seminar                                                            | 152                      |
|             | Academic                                                                                         | GL, Seminar                                                            | 38                       |
|             | Alumni                                                                                           | GL                                                                     | 14                       |
|             | Community                                                                                        | Awareness programme                                                    | 1                        |
| 2015 - 16   | Industry                                                                                         | GL, Seminar                                                            | 180                      |
|             | Academic                                                                                         | GL, Seminar                                                            | 81                       |

|         |           |                     |    |
|---------|-----------|---------------------|----|
| 2016-17 | Alumni    | GL                  | 36 |
|         | Community | Awareness programme | 3  |
|         | Industry  | GL, Seminar         | 70 |
|         | Academic  | GL, Seminar         | 31 |
|         | Alumni    | GL                  | 14 |
|         | Community | Awareness programme | 3  |
|         |           |                     |    |
|         |           |                     |    |

**5.1.18 What special schemes / mechanisms are in place to motivate students for participation in extracurricular activities such as sports, cultural events, etc?**

- The college provides ample opportunities towards participation of its students in extracurricular activities by displaying the posters/pamphlets of the events in notice boards to participate the same.
- Each class tutors are having a target form in which the target for each student is set and steps are taken to attain the target by the individual students within the academic year which provides the plan for participation in events throughout the year.
- The students are motivated to achieve the set target in each academic year.
- The Music and Dance club in the institute help the students in exhibiting the talents on cultural fests conducted in regional and state level.
- The college also provides part of the registration fee to the students for participating in extra-curricular and other activities.
- AOD club activities are conducted once every month (Saturday)
- Cultural clubs equipped with instruments worth of Rs.1,18,520/- and separate room is provided for practice.
- State level Power lifting competition was conducted on July 2014 and 2015. About 600 students have participated in this event.
- Anna university zonal meet is being conducted every year in the month of August / September. The games like Kho-Kho, Ball badminton, Badminton, Basket ball etc., is being conducted.
- The College conducts the District level Athletic events every year in the month of March. Around 3000-5000 players participated in various events every year.
- The college allocates a budget of around rupees five lakhs every year to motivate the students to participate in zonal/state level competitions to cover sponsor of TA/DA for the events.

**5.1.19 How does the college ensure participation of women in ‘intra’ and ‘inter’ institutional sports competitions and cultural activities? Provide details of sports and cultural activities in which such efforts were made?**

- The college encourages women participation in ‘intra’ and ‘inter’ sports competitions.

- A team of women volunteers look into the matter of women participation and organizes various events suited to girls.
- Cultural activities are conducted regularly on the eve of fests and other events where women participation is enhanced.
- Anna university zonal matches for women have been conducted in the sport events such as ball badminton, Badminton and Basket ball in the year 2013, 2014 and 2016. Fitness centre at girl's hostel has been created for the girls with a budget of Rs. 3 lacs. The fitness centre consists of 8 station multi gym, bagging, cycling, abdomen, dumbles, skipping rope etc.,

#### **Cultural (Internal events)**

| <b>Year</b> | <b>Total Participants</b> | <b>Girl Participants</b> |
|-------------|---------------------------|--------------------------|
| 2012 - 13   | 31                        | 14                       |
| 2013 - 14   | 31                        | 15                       |
| 2014 - 15   | 32                        | 12                       |
| 2015 - 16   | 188                       | 158                      |

#### **Cultural (External events)**

| <b>Year</b> | <b>Total Participants</b> | <b>Girl Participants</b> | <b>National/State /Zonal level</b> |
|-------------|---------------------------|--------------------------|------------------------------------|
| 2012 - 13   | 15                        | 9                        | National                           |
| 2013 - 14   | 20                        | 8                        | National and Zonal                 |
| 2014 - 15   | 25                        | 15                       | Zonal                              |
| 2015 - 16   | 50                        | 29                       | National                           |

#### **Sports (External events)**

| <b>Year</b> | <b>Name of the Event</b> | <b>Girl Participants</b> | <b>National/State /Zonal level</b> |
|-------------|--------------------------|--------------------------|------------------------------------|
| 2012 - 13   | Kho-kho(w)               | 12                       | Zonal level                        |
|             | Badminton                | 4                        | District level                     |
|             | Table tennis(w)          | 4                        | Zonal level                        |
|             | Volley ball(w)           | 12                       | Zonal level                        |
|             | Foot ball                | 36                       | Zonal level                        |
|             | Basket ball(w)           | 12                       | Zonal level                        |
|             | Athletics                | 14                       | Zonal level                        |
| 2013-14     | Volley ball(w)           | 12                       | Zonal level                        |
|             | Badminton                | 4                        | Zonal level                        |
|             | Kho-kho(w)               | 12                       | Zonal level                        |
|             | Basket ball (w)          | 12                       | Zonal level                        |
|             | Athletics                | 17                       | Zonal level                        |

|         |                   |    |             |
|---------|-------------------|----|-------------|
| 2014-15 | Volley ball(w)    | 12 | Zonal level |
|         | Ball badminton(w) | 10 | Zonal level |
|         | Badminton         | 4  | Zonal level |
|         | Kho-kho(w)        | 12 | Zonal level |
|         | Throw ball        | 12 | Zonal level |
|         | Athletics         | 22 | Zonal level |
| 2015-16 | Badminton         | 4  | Zonal level |
|         | Kho-kho(w)        | 12 | Zonal level |
|         | Basketball(w)     | 12 | Zonal level |
|         | Volleyball(w)     | 12 | Zonal level |
|         | Boxing (w)        | 3  | State level |
|         | Throw ball        | 12 | Zonal level |
|         | Athletics         | 30 | Zonal level |

\*(w) = Women

#### Sports (Internal events)

| Name of the Event | Girl Participants |
|-------------------|-------------------|
| Kho-kho           | 48                |
| Kabaddi           | 48                |
| Badminton         | 16                |
| Table tennis      | 16                |
| Volley ball       | 48                |
| Foot ball         | 80                |
| Basket ball       | 48                |
| Athletics         | 80                |
| Throwball         | 48                |
| Ball badminton    | 40                |
| Tennikoit         | 8                 |
| Chess             | 16                |
| Carrom            | 16                |

#### Sports achievements (Women)

| Year      | Event/Game | Prizes won | National/State /Zonal level |
|-----------|------------|------------|-----------------------------|
| 2012 - 13 | Basket bal | Third      | Zonal                       |
|           | Badminton  | Runner     | District                    |
| 2013 - 14 | Badminton  | Runner     | Zonal                       |
|           | Kho-kho    | Third      | Zonal                       |
|           | Badminton  | Runner     | State                       |
| 2014 - 15 | Badminton  | Runner     | Zonal                       |
| 2015 - 16 | Badminton  | Winner     | Zonal                       |

|         |              |              |          |
|---------|--------------|--------------|----------|
|         | Basket ball  | Third        | Zonal    |
|         | Boxing       | Bronze medal | National |
| 2016-17 | Table Tennis | Winner       | Zonal    |
|         | Badminton    | Third        | Zonal    |
|         | Basket ball  | Third        | Zonal    |

## 5.2 STUDENT PROGRESSION

### 5.2.1 Provide details of programme-wise success rate of the college for the last four years. How does the college compare itself with the performance of other autonomous colleges/universities (if available)

- The college gets good pass percentages in almost all of its programmes which reflects the level of commitment towards quality in education.
- The college performance much better when compared to the peers, which shows its urge to be amongst the best in the business.

The department wise graduation percentage is given in the table below:

| Sl.No | Programme | Branch | Graduation % |      |      |       |
|-------|-----------|--------|--------------|------|------|-------|
|       |           |        | 2013         | 2014 | 2015 | 2016  |
| 1     | B.E       | AERO   | 71.7         | 47.5 | 37.5 | 52.17 |
| 2     |           | CIVIL  | 76.6         | 70   | 64.2 | 66.6  |
| 3     |           | CSE    | 86.6         | 80   | 83.6 | 72.3  |
| 4     |           | EEE    | 73.8         | 81.8 | 58   | 70.6  |
| 5     |           | ECE    | 81.5         | 81.3 | 55.2 | 72.6  |
| 6     |           | EIE    | NA           | NA   | 92.3 | 83    |
| 7     |           | MECH   | 80.6         | 76.4 | 79.4 | 74.4  |
| 8     |           | MCT    | NA           | NA   | 88.6 | 82    |
| 9     | B.Tech    | IT     | 81           | 73.1 | 86.5 | 94.2  |
| 10    | ME        | ST.E   | NA           | NA   | 88.2 | 100   |
| 11    |           | CSE    | 100          | 100  | 100  | 100   |
| 12    |           | SE     | 88.9         | 94.4 | 100  | 100   |
| 13    |           | PSE    | 94.1         | 82.4 | 94.1 | 100   |
| 14    |           | CS     | 100          | 94.1 | 100  | 100   |
| 15    |           | VLSI   | 100          | 88.9 | 100  | 100   |
| 16    |           | ECE    | NA           | NA   | 100  | NA    |
| 17    |           | TE     | NA           | NA   | 100  | 100   |

|           |        |     |      |      |      |       |
|-----------|--------|-----|------|------|------|-------|
| 18        |        | CCE | 100  | 100  | NA   | NA    |
| 19        | M.Tech | IT  | 100  | 100  | 100  | 100   |
| 20        | MBA    |     | 57.4 | 76.3 | 93.3 | 94.3  |
| 21        | MCA    |     | 98.2 | 96.2 | 97   | 82    |
| Overall % |        |     | 82.6 | 79.1 | 77   | 78.24 |

**5.2.2 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the observed trends.**

| Student Progression   | No. of students |      |      |      |
|-----------------------|-----------------|------|------|------|
|                       | 2013            | 2014 | 2015 | 2016 |
| UG to PG              | 48              | 49   | 26   | 19   |
| PG to Ph.D            | 0               | 1    | 2    | 1    |
| Other Diploma Courses | 0               | 0    | 5    | 1    |
| Employed: On Campus   | 197             | 335  | 442  | 144  |
| Employed: Off Campus  | 95              | 159  | 118  | 105  |
| Entrepreneurs         | 5               | 27   | 12   | 5    |

The above data reveals that the students opting placement is higher when compared with the students opting higher studies.

**5.2.3 What is the Programme-wise completion rate/dropout rate within the time span as stipulated by the College / University?**

| Degree           | Name of the Programme                       | Completion Rate % | Drop out % |
|------------------|---------------------------------------------|-------------------|------------|
| UG – B.E/B.Tech  | Aeronautical Engineering                    | 90.00             | 10.00      |
|                  | Civil Engineering                           | 95.07             | 4.93       |
|                  | Computer Science and Engineering            | 97.56             | 2.44       |
|                  | Electronics and Communication Engineering   | 98.96             | 1.04       |
|                  | Electrical and Electronics Engineering      | 94.37             | 5.63       |
|                  | Electronics and Instrumentation Engineering | 92.86             | 7.14       |
|                  | Information Technology                      | 94.35             | 5.65       |
|                  | Mechatronics Engineering                    | 97.86             | 2.14       |
|                  | Mechanical Engineering                      | 95.16             | 4.84       |
| PG – M.E /M.Tech | Structural Engineering                      | 94.59             | 5.41       |
|                  | Computer Science and Engineering            | 100.00            | 0.00       |
|                  | Software Engineering                        | 98.59             | 1.41       |



|                |                                           |              |             |
|----------------|-------------------------------------------|--------------|-------------|
|                | Communication Systems                     | 97.14        | 2.86        |
|                | VLSI Design                               | 97.01        | 2.99        |
|                | Electronics and Communication Engineering | 100.00       | 0.00        |
|                | Power System Engineering                  | 94.44        | 5.56        |
|                | Information Technology                    | 98.53        | 1.47        |
|                | Computer and Communication Engineering    | 100.00       | 0.00        |
|                | Thermal Engineering                       | 91.67        | 8.33        |
| PG - MBA       | MBA                                       | 96.65        | 3.35        |
| PG - MCA       | MCA                                       | 93.45        | 6.55        |
| <b>Average</b> |                                           | <b>96.06</b> | <b>3.93</b> |

**5.2.4 What is the number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UG-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.**

| Year      | Type of Exam                                        | No of students appeared | No of students Qualified | %     |
|-----------|-----------------------------------------------------|-------------------------|--------------------------|-------|
| 2012 - 13 | TANCET, GATE, GRE, Banking, TNPSC, IELTS, CAT, etc. | 272                     | 167                      | 61.39 |
| 2013-14   | TANCET, GATE, GRE, Banking, TNPSC, IELTS, CAT, etc. | 271                     | 175                      | 64.57 |
| 2014-15   | TANCET, GATE, GRE, Banking, TNPSC, IELTS, CAT, etc. | 256                     | 127                      | 49.6  |
| 2015-16   | TANCET, GATE, GRE, Banking, TNPSC, IELTS, CAT, etc. | 311                     | 302                      | 97.1  |

**5.2.5 Provide details regarding the number of Ph.D / D.Sc./D.Litt. thesis submitted, accepted, resubmitted and rejected in the last four years.**

| Year      | Number of Thesis |          |             |          |
|-----------|------------------|----------|-------------|----------|
|           | Submitted        | Accepted | Resubmitted | Rejected |
| 2012 - 13 | 5                | 5        | Nil         | Nil      |
| 2013 - 14 | 15               | 15       | Nil         | Nil      |
| 2014 - 15 | 12               | 12       | Nil         | Nil      |
| 2015 - 16 | 7                | 7        | Nil         | Nil      |
| 2016 - 17 | 6                | 6        | Nil         | Nil      |

### 5.3 STUDENT PARTICIPATION AND ACTIVITIES

The college encourages and provides enough platforms for students to develop their personality through participation in sports, games, and other cultural and extracurricular activities. Various associations, professional bodies, cells and clubs are functioning smoothly in the college for these activities. The college also provides ample encouragement for the students to take part in the activities conducted in the state, national or international level and makes adequate arrangements in the form of OD and partial financial support to the students.

#### 5.3.1 List the range of sports and games, cultural and extracurricular activities available to students. Provide details of participation and program calendar.

##### Sports and games

The following are the outdoor and indoor facilities available in the campus,

##### Outdoor Games:

- Kho-Kho
- Hand Ball
- Volley Ball
- Throw Ball
- Basket Ball
- Kabbaddi
- Fives Football
- Ball Badminton
- TenniKait
- Fencing

##### Indoor Games:

- Badminton
- Table Tennis
- Chess
- Carrom

##### Sports Programme Calendar (Regular)

| Nature of Event                                              | Duration                                            |
|--------------------------------------------------------------|-----------------------------------------------------|
| Anna University Zonal / Inter Zonal / South Zone Tournaments | July 2 <sup>nd</sup> Week – Nov                     |
| Tamil Nadu Inter Engineering Sports Meet                     | Jan 3 <sup>rd</sup> Week – Feb 1 <sup>st</sup> week |
| CENTIES Tournaments                                          | Feb 2 <sup>nd</sup> Week Last Week                  |

|                    |       |
|--------------------|-------|
| College Sports Day | March |
|--------------------|-------|

#### **Tournaments Organized in the campus:**

| <b>Year</b> | <b>Name of the Event</b> | <b>Gender</b> | <b>Total Participants</b> | <b>Event Control</b>            |
|-------------|--------------------------|---------------|---------------------------|---------------------------------|
| 2012-13     | Ball Badminton           | Men /Women    | 200                       | Anna University Zonal - XI      |
| 2013-14     | Kho-Kho                  | Men           | 144                       | Anna University Zonal - XI      |
|             | Cricket                  | Men           | 160 Teams                 | SNS Trophy                      |
|             | Power Lifting            | Men /Women    | 600                       | SNS & Power lifting Association |
| 2014-15     | Kho-Kho                  | Men           | 132                       | Anna University Zonal - XI      |
|             | Power Lifting            | Men /Women    | 400                       | SNS & Power lifting Association |
|             | Cricket                  | Men           | 200 Teams                 | SNS Trophy                      |
| 2015-16     | Basket Ball              | Women         | 72                        | Anna University Zonal - XI      |
| 2016-17     | Basket Ball              | Women         | 60                        | Anna University Zonal - XI      |
|             | Badminton                | Women         | 48                        | Anna University Zonal - XI      |

#### **Cultural and other extracurricular activities**

- The college has constituted a number of student chapters/clubs to facilitate the participation of students in extracurricular activities.

#### **Details of Clubs constituted in the college:**

| <b>Year</b> | <b>No. of the Clubs</b> | <b>Number of student members</b> | <b>No. of Events</b> | <b>No. of Beneficiaries</b> |
|-------------|-------------------------|----------------------------------|----------------------|-----------------------------|
| 2012 - 13   | 23                      | 43                               | 3                    | 31                          |
| 2013 - 14   | 23                      | 573                              | 52                   | 664                         |
| 2014 - 15   | 25                      | 876                              | 66                   | 1020                        |
| 2015 - 16   | 25                      | 1235                             | 113                  | 1404                        |
| 2016 - 17   | 25                      | 978                              | 35                   | 1149                        |

**5.3.2 Provide details of the previous four years regarding the achievements of students in co-curricular, extracurricular activities and cultural activities at different levels: University / State / Zonal / National / International, etc.**

**Co-Curricular Activities**

| Level of Competition | Competition        | No. of prizes won in various events |         |         |         |                    |
|----------------------|--------------------|-------------------------------------|---------|---------|---------|--------------------|
|                      |                    | 2012-13                             | 2013-14 | 2014-15 | 2015-16 | 2016-17 (till now) |
| Zonal                | Paper presentation | 2                                   | 13      | 7       | 21      | 3                  |
|                      | Technical events   | 10                                  | 7       | 26      | 18      | 4                  |
|                      | Others             | 6                                   | 11      | 25      | 66      | -                  |
| University           | Paper presentation | -                                   | 7       | 3       | 4       | -                  |
|                      | Technical events   | -                                   | 12      | 5       | 26      | -                  |
| State                | Paper presentation | 2                                   | 5       | 1       | 15      | -                  |
|                      | Technical events   | 2                                   | 7       | 10      | 9       | -                  |
|                      | ISTE Student award | 1                                   | -       | 1       | 1       | -                  |
|                      | Management meet    | -                                   | -       | 2       | 4       | -                  |
|                      | Others             | 3                                   | 8       | 10      | 10      | -                  |
| National             | Paper presentation | 35                                  | 14      | 27      | 22      | -                  |
|                      | Technical events   | 35                                  | 106     | 31      | 67      | 3                  |
|                      | Others             | 4                                   | 7       | 4       | 34      | -                  |
| International        | Paper presentation | -                                   | 1       | -       | 2       | -                  |
|                      | Cultural fest      | -                                   | -       | -       | 2       | -                  |
|                      | MUN                | -                                   | -       | -       | 3       | -                  |

**Extra Curricular Activities**

**SPORTS ACHIEVEMENTS (2012 – 2013)**

| LEVEL    | COMPETITION             | PRIZES WON                               |
|----------|-------------------------|------------------------------------------|
| Zonal    | Kabaddi (Men)           | Winner                                   |
|          | Hand ball (Men)         | Runner                                   |
|          | Kho – Kho (Men)         | Runner                                   |
|          | Table Tennis (Men)      | Third                                    |
|          | Basket ball (Women)     | Third                                    |
|          | Athletics (14 Students) | 1 <sup>st</sup> to 3 <sup>rd</sup> Place |
| District | Badminton (Women)       | Runner                                   |
|          | Badminton (Men)         | Third                                    |

### SPORTS ACHIEVEMENTS (2013 – 2014)

| LEVEL    | COMPETITION                         | PRIZES WON                               |
|----------|-------------------------------------|------------------------------------------|
| Zonal    | Kho – Kho (Men)                     | Runner                                   |
|          | Volley ball (Men)                   | Runner                                   |
|          | Badminton (Women)                   | Runner                                   |
|          | Badminton (Men)                     | Third                                    |
|          | Basket ball (Men)                   | Third                                    |
|          | Kho – Kho (Women)                   | Third                                    |
|          | Athletics (17 Students)             | 1 <sup>st</sup> to 3 <sup>rd</sup> Place |
| District | Wushu (4 Students)                  | Gold – 3, Silver - 1                     |
|          | Badminton                           | Winner                                   |
| State    | TIES – Badminton (Women)            | Runner                                   |
|          | Boxing                              | Bronze medal (2 Nos)                     |
| National | Erattai kambu veechu & Kambu sandai | 2 <sup>nd</sup> & 3 <sup>rd</sup> Place  |

### SPORTS ACHIEVEMENTS (2014-2015)

| LEVEL    | COMPETITION             | PRIZES WON                               |
|----------|-------------------------|------------------------------------------|
| Zonal    | Volley ball (Men)       | Runner                                   |
|          | Ball – Badminton (Men)  | Runner                                   |
|          | Badminton (Men)         | Runner                                   |
|          | Badminton (Women)       | Runner                                   |
|          | Kho – Kho (Men)         | Third                                    |
|          | Athletics (23 Students) | 1 <sup>st</sup> to 3 <sup>rd</sup> Place |
| District | Boxing                  | Third                                    |

### SPORTS ACHIEVEMENTS (2015-2016)

| LEVEL | COMPETITION         | PRIZES WON |
|-------|---------------------|------------|
| Zonal | Badminton (Women)   | Winner     |
|       | Cricket (Men)       | Winner     |
|       | Kho – Kho (Men)     | Winner     |
|       | Badminton (Men)     | Runner     |
|       | Football (Men)      | Runner     |
|       | Basket ball (Women) | Third      |

|          |                          |                                          |
|----------|--------------------------|------------------------------------------|
|          | Volley ball (Men)        | Third                                    |
|          | Hand ball (Men)          | Third                                    |
|          | Athletics (18 Students)  | 1 <sup>st</sup> to 3 <sup>rd</sup> Place |
| State    | Boxing (3 Nos) – (Women) | Bronze medal                             |
|          | Chess (Women)            | 13 <sup>th</sup> Place                   |
| National | Chess (Women)            | 11 <sup>th</sup> Place                   |

#### **SPORTS ACHIEVEMENTS (2016-2017)**

| LEVEL | COMPETITION             | PRIZES WON                               |
|-------|-------------------------|------------------------------------------|
| Zonal | Table Tennis (Women)    | Winner                                   |
|       | Badminton (Men)         | Runner                                   |
|       | Kho – Kho (Men)         | Runner                                   |
|       | Volley ball (Men)       | Runner                                   |
|       | Badminton (Women)       | Third                                    |
|       | Ball – Badminton (Men)  | Third                                    |
|       | Basket ball (Women)     | Third                                    |
|       | Hand ball (Men)         | Third                                    |
|       | Athletics (15 Students) | 1 <sup>st</sup> to 3 <sup>rd</sup> Place |
| State | Table Tennis (Women)    | Participated                             |

#### **Achievements in Cultural activities:**

| Level of Competition | Competition        | No. of prizes won in various events |         |         |         |         |
|----------------------|--------------------|-------------------------------------|---------|---------|---------|---------|
|                      |                    | 2012-13                             | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| Zonal                | Instrumental Play  | -                                   | -       | -       | 1       | -       |
|                      | Dance              | -                                   | 1       | 3       | -       | -       |
| University           | Music              | -                                   | 1       | -       | -       | -       |
| State                | Dance              | 1                                   | 1       | -       | 1       | 1       |
|                      | Music              | -                                   | -       | 3       | -       | -       |
|                      | Fests              | -                                   | -       | -       | 7       | -       |
| National             | Battle of Choreo   | -                                   | -       | 1       | -       | -       |
|                      | Choreonite         | -                                   | -       | 1       | -       | -       |
|                      | Dance              | 1                                   | 1       | 2       | 2       | -       |
|                      | Ragaam Nit Calicut | 3                                   | 3       | 2       | -       | -       |

#### **5.3.3 How often does the college collect feedback from students for improving the support services? How is the feedback used?**

- The college collects feedback from the students through pre structured feedback form once in every semester.
- Feedback collected from the students are analysed and all the necessary remedial measures are taken by the management along with the faculty members.

- It is also used to rectify the drawbacks, if any, in the student support services and for further improvement.
- At the end of each semester, the class committee chairpersons collect the feedback from the students for the respective courses in various aspects like class room delivery, use of teaching aids, involvement in internal assessment, level of preparedness, ease of maintenance of order, temperament, intellectual stature, honesty, impartial nature and fairness of conduct. The consolidated report will be reviewed by the Head of the Department and positive & negative points are explained to the respective course faculty member. This feedback is used in improving the teaching-learning process.
- The Suggestion Boxes are placed in each and every department to facilitate the students to raise their feedbacks. These letters are collected by Head of the Department confidentially and issues are resolved by giving appropriate priority to the issues mentioned by students.
- Feedbacks are also collected through mail services (helpline.snsct@gmail.com). The principal will address the feedback received and properly resolves the issues raised.

#### **5.3.4 Does the college have a mechanism to seek and use data and feedback from its graduates and employers, to improve the growth and development of the college?**

- The IQAC collect the feedback from the graduates as well as employers in well structured forms prepared for the purpose.
- The suggestions and recommendations received from them are considered and duly implemented.
- Each department of the college has bodies like Programme Advisory Board and Board of Studies, which have alumni and Industrial persons as members to invite their valuable suggestions in developing the Syllabus and Curriculum.
- Alumni meet is organized twice in a year, to maintain a continuous relationship with the Alumni. This helps in getting their ideas, feedbacks for the improvement of the college.
- Alumni survey is collected from alumni for modification in curriculum and syllabus, current industry requirements etc.,
- Suggestions from Alumni who pursue higher education in other institutions are also sought for ensuring growth & development for subsequent batches of students.
- Employer feedback is received when they visit the campus for recruitment. The feedbacks are also collected from the employers via email, through the placement cell or through the graduates.
- Students, at that time of graduation; are encouraged to provide an exit feedback to help the college in making further improvements.

#### **5.3.5 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major**

**publications/materials brought out by the students during the previous academic session.**

The students are encouraged and supported to publish their articles regarding latest technologies, creative ideas, students achievements, club activities, social activities, literary articles in the magazines, newsletters published by each department every year. The detailed magazine list is given in section 5.1.8.

**5.3.6 Does the college have a student council or any similar body? Give details on its constitution, major activities and funding.**

- Youth Parliament and Department Association are the two major student councils functioning in the campus in addition to professional body chapters.
- The department association constitution : HoD as mentor, one faculty advisor who guides in organizing any event, one faculty advisors who guides in managing the funds, Secretary, Joint Secretary, Treasurer, Executive Members.
- The major activities include arranging guest lectures, workshops, etc and organising events by inviting participants from regional, state and nationwide.
- Student Association renders voluntary services during the various college level programmes and activities.
- They show active participation in maintaining the serenity and discipline of the college campus.
- They also play an important role in governing of student's hostels.

**5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Provide details of their activities.**

The students are involved as members in the following academic and administrative bodies.

- Class committee
- IQAC
- Department Associations
- Hostel Mess Committee
- Anti-Ragging Committee
- Entrepreneurship Development Cell
- Training and Placement Cell
- ISTE, IEEE, SAE & IE(I) Students Chapters
- Club Activities – Youth parliament, MUN, AOD, etc.,
- Grievance Redressal cell
- Library advisory committee

The students are encouraged to represent their points and the same will be considered suitably.



**Any additional information regarding student support and progression, which the institution would like to include.**

- The college main library is equipped with audio/video room which has the capacity of 40 members for accessing NPTEL material.
- Other than regular working hours, library is kept available for student's access from 5.00pm to 6.30pm during all working days.
- Apart from main library, each department is provided with a separate department library. Department library is facilitated with Technical books, technical magazines, journals, books for competitive exams and higher studies, weekly magazines and daily news papers.
- The college provides 24x7 laboratories for individual and multidisciplinary research and project works.
- The language lab has GLOBERENA software to enhance students listening, speaking, reading and writing skills.

***Criterion VI***  
***Governance, Leadership***  
***and Management***

## **CRITERION VI**

### **GOVERNANCE, LEADERSHIP AND MANAGEMENT**

#### **6.1 INSTITUTIONAL VISION AND LEADERSHIP**

##### **6.1.1 State the vision and mission of the College**

###### **VISION OF THE COLLEGE**

SNS College of Technology envisions to be internationally recognized Technical University, renowned for its excellence in teaching, learning and research in diversified fields of Engineering and Technology, by producing globally competent technocrats with strong ethical values.

###### **MISSION OF THE COLLEGE**

- To offer contemporary and rigorous educational experiences that will equip the graduates with advanced problem solving and critical thinking skills for contributing to societal growth.
- To ensure continuous development of infrastructure and state-of-the art equipments to provide technologically advanced and intellectually inspiring learning environment.
- To provide an ambience that encourages knowledge acquisition and academic freedom, to produce skilled professionals and vibrant entrepreneurs.
- To collaborate with Industry, Government bodies, R&D Organizations and Foreign Universities to acquire new knowledge and develop technological transformations to achieve global excellence.
- To instill a sense of professional integrity, social and ethical values, leadership qualities and cultural awareness to evolve as a responsible citizen.

##### **6.1.2 Does the mission statement define the College's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, College's traditions and value orientations, vision for the future, etc.?**

Yes, the mission statement defines the college's distinctive characteristics in terms of addressing the needs of its stakeholders. The mission statement of the college is carefully defined bearing in mind the requirements and needs of the society. The college mission statement has been framed after due consultation with the stake holders to make every effort to contribute towards the nations development through education. The mission of the college to offer highly contemporary and rigorous educational experiences is the need of the hour. This results in world class education at par with international standards and industry expectations. The critical roles of engineering in addressing the large-scale pressing challenges faced by our societies worldwide are widely recognized.

**The advanced problem solving and critical thinking skills** acquired by our students through **contemporary education** helps to find solutions for such large scale issues.

The college transforms every student into an industry ready professional, with strong basics in science, mathematics and engineering skills who are capable of analyzing and providing solutions to address societal needs and issues. The college encourages its young

technocrats to become **vibrant entrepreneurs** to strengthen the industrial world and to inoculate the national mission “Make in India”. The Entrepreneurship Development Cell (EDC) continuously encourages the students to become entrepreneurs. The college facilitates by providing various club activities, NSS, NCC, YRC and youth parliament to inculcate the leadership qualities. The college provides opportunities for students which helps them to excel with **leadership qualities** to organize various technical and nontechnical events within the college.

The College management strongly believes that, the education without **social and ethical values** is not a complete education. Grooming a student as a perfect citizen imbibing **professional integrity and cultural awareness** is one of the mission and to achieve this, the college encourages students to take part in various community activities including blood donation camps, health camps, social awareness camps etc. As volunteers in NSS, NCC, YRC and RRC, students take active participation in extension activities on various community related causes. Further each department conducts extension activities to help the local community around the college. The college understands the responsibility in educating the technocrats with **social values** and professionalism in their career hence, professional ethics and environmental science courses are included in the curriculum for all UG programmes.

Innovation drives the future of the nation, and college always encourages its students and faculty members to engage in active research. The Research and Development cell regularly motivates and monitors all the research activities in the campus.

The college strives to serve people from varied backward community for their **advancement of knowledge** without any discrimination. People from diversified social and economic background are provided with equal opportunity in the college to enhance **social cohesion and good quality of life**.

### **6.1.3 How is the leadership involved in**

#### **a) Ensuring the organization’s management system development, implementation and continuous improvement**

Creating an environment which supports a quality culture requires a structured and a systematic process. Quality Management System is adopted in the college in the organizational structure, processes, procedures and resources which are needed to maintain and continually improve quality. The management of the college, led by our Chairman and Correspondent at the top most level followed by the Technical Director, who give progressive leadership to the administrators of the college namely the Director, Principal, Controller of Examination, Deans, Heads of Department, Class Advisors and Tutors to march forward to attain the mission and vision of the college.

The organization’s management system also includes the high level committees of the college such as Governing council, Academic council, Institute Development and Monitoring Committee (IDMC) and Internal Quality Assurance Cell (IQAC). The committees constituted are functioning as per the guidelines. Activities such as teaching learning, Research, Consultancy, Fund utilization, development of infrastructure facilities, scholarships and expenditure incurred are discussed and necessary steps are proposed during the committee meetings. The management meets the faculty member on regularly, and has an “open door” policy to meet the students in order to lead and guide them with a parental care. The Director

and Principal disseminate the plans proposed and the methods of implementation to Deans and HoDs in the regular HoD meetings. They also meet all faculty members once in a semester to discuss the plans for the forth coming semester and to motivate them for their continued good performance and contributions. The Heads of the Department regularly conduct department meetings with all the members of the faculty to ensure proper implementation of the plans proposed. The two way communication is ensured in the college by ensuring that all decisions made at HoD meetings are based on inputs received from the faculty members and other stakeholders. Such decisions are then communicated back to them for effective implementation.

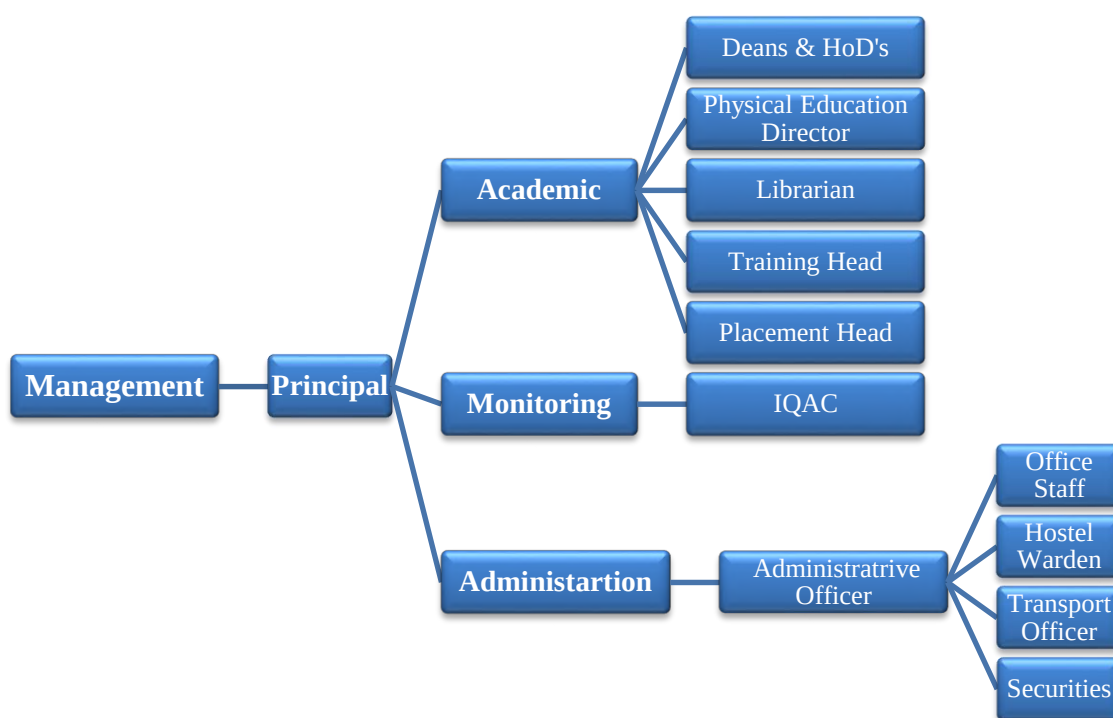


**Figure 6.1 Organization Leadership Hierarchy of the College**

The IQAC performs its functions based on its yearly plan. This plan helps the IQAC to perform its duties in an effective manner. Each department prepares its perspective plan with clear targets for the academic year. Action plan meeting is conducted every year, where Heads of the Department present the perspective plans at the beginning of every academic year. The targets fixed for the academic year are based on the target attained during the previous year. The Management, Director, Principal and IQAC members are present for such meetings to review the plan and give suitable suggestions. Thereafter the HoDs present the monthly progress made on the targets during third Saturday of every month. In addition to this a monthly report which includes departmental activities such as students' academic performance, placements, participation by students and faculty members in various events is submitted to the principal, which in turn is submitted to the management. These mechanisms help the IQAC to monitor the functioning of the departments and to provide a lending hand wherever required.

Feedback and suggestions given by the stakeholders, experts from academia & industry, NBA, NAAC team observations, IQAC Audits etc are taken meticulously and necessary actions are taken to have continuous improvement in college operations. Apart

from this, the respective committees/bodies are responsible for the major decisions pertaining to their department.

## **b) Interaction with stakeholders**

The management schedules regular meetings with the stakeholders. Aside from the regular meetings, the management is open to meet their stakeholder at any time. The Heads of the department and faculty members communicate with the stakeholders regularly and on adhoc basis. The grievances redressal cell addresses the issues of the stakeholder as and when raised. Feedback received through stake holder interactions are considered for continual improvement purposes.

### ***Interaction with Students:***

The College believes that students are the ambassadors of our college. A group of 15-25 students are attached to a tutor, who meets their wards regularly. The tutor takes care of student's curricular, co-curricular, extra-curricular and their personal activities, and also counsels them suitably whenever required. Each class is attached to a senior faculty who acts as a class advisor. The students express their views and suggestion in class committee meetings which are conducted atleast twice a semester. The Head of the Department also meets the student as and when required. The Principal addresses the students on regular intervals. The management interacts with student representatives once in a year. The Principal and Director will be always available to meet student volunteers, club presidents for any clarifications or discussions. The students are involved as the members of the IQAC, Class committee, Programme Assessment Cell, Youth parliament, AOD, and hostel committee.

### ***Interaction with Parents:***

Parents meeting is conducted once in a semester and adhoc meetings are conducted whenever necessary. The ward's daily attendance, internal test performance and end semester performances are regularly informed to the parents through SMS. The Principal and Director are always available to meet the parents and receive their valuable suggestions and feedbacks. Feedback on teaching learning process, facilities provided and expectations from the college are received which is analyzed and necessary actions are taken immediately.

### ***Interaction with Alumni:***

The college organizes alumni meetings where their suggestions and feedback are obtained. Apart from regular alumni meetings, the college conducts Decennial meeting for batches passed out ten years back. Alumni bring laurels to the college in the way they behave in the society. The students enjoy various guest sessions delivered by our alumni. The alumni are linked through well maintained alumni web portal. Each department maintains a social networking accounts to communicate with the alumni. The alumni are also members of the following committees of the college

- Academic Council
- Board of Studies
- IQAC
- Academic Assessment Cell & Programme Assessment Cell.

### ***Interaction with Industry:***

The Industry Institute Partnership Cell (IIPC) is responsible for Industry-Institute relationships. The IIPC charts out annual plans to guide the Industry-Institute interactions. Industrial experts visit the college frequently as guest/ resource person for various events. During such events feedback from industry is sought on various areas. The college has signed MoU with many industries, through which consultancy works, academic events, internships, faculty trainings, industrial projects, placements are carried out. The industrial experts are members in various bodies like Governing Council, Academic Council, Board of Studies, IQAC, Programme Assessment Cell and Academic Assessment Cell which paves the way for effective feedback mechanisms.

The industrial experts in the board of studies enable us to bridge the technological gap between industrial need and curriculum. Feedback on curriculum is also obtained from various other industry personnel. Faculty members visit companies for consultancy services, industrial training and so on.

### **c) Reinforcing culture of excellence**

The college encourages its students to excel in all their endeavors and provides opportunities for them to grow through the following initiatives:

- Full-fledged curriculum to suit the industry and global needs
- Effective Teaching -Learning process with ICT enabled classes
- Collaborations with leading academic institutions and Industries which are nationally and internationally acclaimed
- Practicing participatory leadership style
- Ensuring competency of faculty through appropriate training.
- Recognized Research centers by Anna University
- Organizing seminars, workshops, guest lectures, symposiums and conferences at national and international level
- Seed money by management for innovative projects
- Motivating students by awarding with certificates and prizes for 100% attendance, academic toppers, and distinction holders.
- Honoring students with Best outgoing (BOG) student award, Best outstanding students of the department award and VIT Chancellor Viswanathan award for the best outgoing student
- Providing Partial financial assistance and On Duty leaves for students to participate in co-curricular, extracurricular and extension activities.
- Encouraged to be a volunteer in NSS, RRC, YRC, and NCC
- Organizing extension activities for the benefits of local community, which imbibe social responsibility, ethical and human values to student as individual and as an engineer.
- Faculty enablement and development program participation.
- Providing 50% of registration fee by the college for faculty members to attend workshop, seminar, STTP and FDP in reputed institutions.
- Appreciating faculty members for producing 100% results and cash prize for Journal publication.

- Student involvement in decision making.
- Act on Dream (AoD) has group of clubs that allow students to work on skill set of their interest.
- Professional society membership and event participation.
- Youth Parliament to groom leadership skills
- Scholarship by management to Academic toppers, No Parent/Single Parent students etc.

#### **d) Identifying needs and championing organizational development (OD)**

The College has a futuristic perspective plan prepared with the involvement of all stakeholders which also includes the directions for having Organizational Development [OD] in a phased manner. The college collects feedback in many ways to identify the OD needs. The gaps between the curriculum design and rapid advancements in technology is identified through regular interaction with industry and professional bodies. The gaps are bridged through seminars, STTPs, workshops, Guest Lectures etc to make a student in line with industry expectations. The Outcome Based Education (OBE) and Choice Based Credit System (CBCS) provides learning platform for the students at par with internationally benchmarked standards. The suggestions made by stakeholders through regular interactions, suggestions made by the experts of various committees such as BOS, IQAC, Governing council, Academic council etc are the guiding factors for the development. The following are the values identified which are fundamental for organizational development and excellence:

- a. Providing opportunities for students, staff and others to develop all the required skill and attain their full potential
- b. Providing opportunities for teaching and non-teaching staff to function as individuals by encouraging creativity and innovations
- c. Creating an environment with more avenues to find exciting and challenging task.

#### **6.1.4 Were any of the senior leadership positions of the College vacant for more than a year? If so, indicate the reasons.**

No. Normally the senior leadership positions of the College are filled through the structured selection process well in advance. The college has a succession planning done to ensure that senior leadership positions are not vacant at any point of time.

#### **6.1.5 Does the College ensure that all positions in its various statutory bodies are filled and conduct of meetings at the stipulated intervals?**

Yes, the college ensures that all positions in its various statutory bodies are filled. The statutory bodies such as Governing Council, Academic Council, BOS (Board of Studies), Finance Committee, IQAC, Anti-ragging Committee, grievance redressal committee etc are constituted as per the guidelines and all positions are filled with eminent personalities. The meetings of the above statutory bodies are conducted at stipulated intervals and the minutes of the meetings are recorded and the corrective actions suggested are carried out immediately.



### STATUTORY BODIES

| Statutory bodies                                                                | Frequency of meeting                          |
|---------------------------------------------------------------------------------|-----------------------------------------------|
| Governing Body/Council                                                          | Twice in a year                               |
| Academic council                                                                | Once in a year                                |
| Board of Studies                                                                | At least Once in a year/as and when necessary |
| Finance Committee                                                               | Twice in a year                               |
| IQAC                                                                            | Once in a Quarter                             |
| Institution Development and Monitoring Committee/ Planning and Monitoring Board | Twice in a year                               |
| Discipline and Welfare Committee                                                | As and when required                          |
| Complaints cum Redressal Committee                                              | As and when required                          |
| Anti Ragging Committee                                                          | As and when required                          |
| Committee for SC/ST                                                             | Once in a Year                                |

### NON-STATUTORY BODIES

| Non-Statutory bodies                            | Frequency of meeting                 |
|-------------------------------------------------|--------------------------------------|
| Standing Committee                              | Once in a year                       |
| Admission Committee                             | Once in a year                       |
| Faculty recruitment committee                   | Once in a year                       |
| Library Advisory Committee                      | Once in a year                       |
| Hostel Committee                                | Twice in a year                      |
| Sports Committee                                | Once in a year                       |
| Extracurricular Activities Committee            | Once in a year                       |
| Class committee                                 | Twice in a semester                  |
| Course Committee                                | Twice in a semester                  |
| Result passing board                            | Once in a semester                   |
| Programme Assessment Committee                  | Once in a year                       |
| Academic Assessment Committee                   | Once in a year                       |
| Prevention of Sexual Harassment Committee[POSH] | Once in a year/ As and when required |

#### 6.1.6 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.

Yes, the college always promotes a culture of participative management to ensure transparency in both academic and administration. Principal is the head for all academic and administrative works of the college. He takes decisions after deliberations and discussions with Deans, Head of the Departments, Placement&Training heads, Controller of Examinations and implements the decisions after consulting with the Management for the progressiveness of the college.

The Heads of the Departments conduct periodic meetings with the faculty members and their suggestions are carried to the HoD's meeting for discussion and approval which ensures that all faculty members take part in the academic and administrative matters of the

College. Members of the management also take part in the academic committee meetings to invite suggestions from various heads.

The department level administrations are decentralized and allow faculty members to take decisions on the day-to-day needs. These decisions are guided by the well-defined college policies developed by the Management and the Principal. Faculty members are also members in the Governing Council, Academic Council, Board of studies, IQAC, Anti ragging committee, Grievance Redressal Committee, Anti-Ragging Squad, etc which allows their participation in decision-making at the higher levels.

The Administrative Officer is the head for finance & administration. The Manager, Office Superintendent and section officers play the role of executive head to take care of the matters related to administration. They consult with the Principal who in turn, puts the matter before the Management while making new decisions related to the administrative operations of the college.

Students are encouraged to participate in the college management activities through their membership in IQAC, Youth Parliament, class committee, hostel committee, anti-ragging committee, department associations, Magazine Committee, professional society chapters, Sport Committee etc.

The Principal and Management carefully check and balance majority of the decisions arrived through various committees. The Management suggests various improvements and solicits suggestions from the stakeholders for the college regularly.

#### **6.1.7 Give details of the academic and administrative leadership provided by the University to the College?**

- Anna University provides academic and administrative leadership by appointing our college faculty members as Chairman in Anna University Central Valuation, members of AU-Board of Studies, Anna University Representatives for University examinations etc.
- The affiliating university (Anna University) nominates members from their University who actively participate in the committees of our college and provide guidance for the improvements in organization development. University nominates members for the following councils of the college:
  - Governing Council
  - Academic Council
  - Board of Studies
  - Result Passing Board
  - Anna University Representative for End semester exam conduction.
  - Anna University Inspection for continuation of affiliation
- The University recognizes the eligible departments as approved Research Centres of the University enabling scholars to pursue M.S[By Research] & Ph.D either on full-time or on a part-time basis.

### 6.1.8 How does the College groom the leadership at various levels?

The college grooms leadership skills of faculty members and students through participative management and by delegating various responsibilities.

- The faculty members are member of various internal committees in the college.
- Students take up leadership positions such as members, secretary/ president of various clubs, representatives in Class committees, BOS, IQAC, anti-ragging committee and so on.
- The college always encourages the staff and students to attend seminar/workshop to develop their leadership skills.
- Leadership quality is also a part of syllabi in Career Development program course.
- The figure below shows the leadership grooming at various levels.

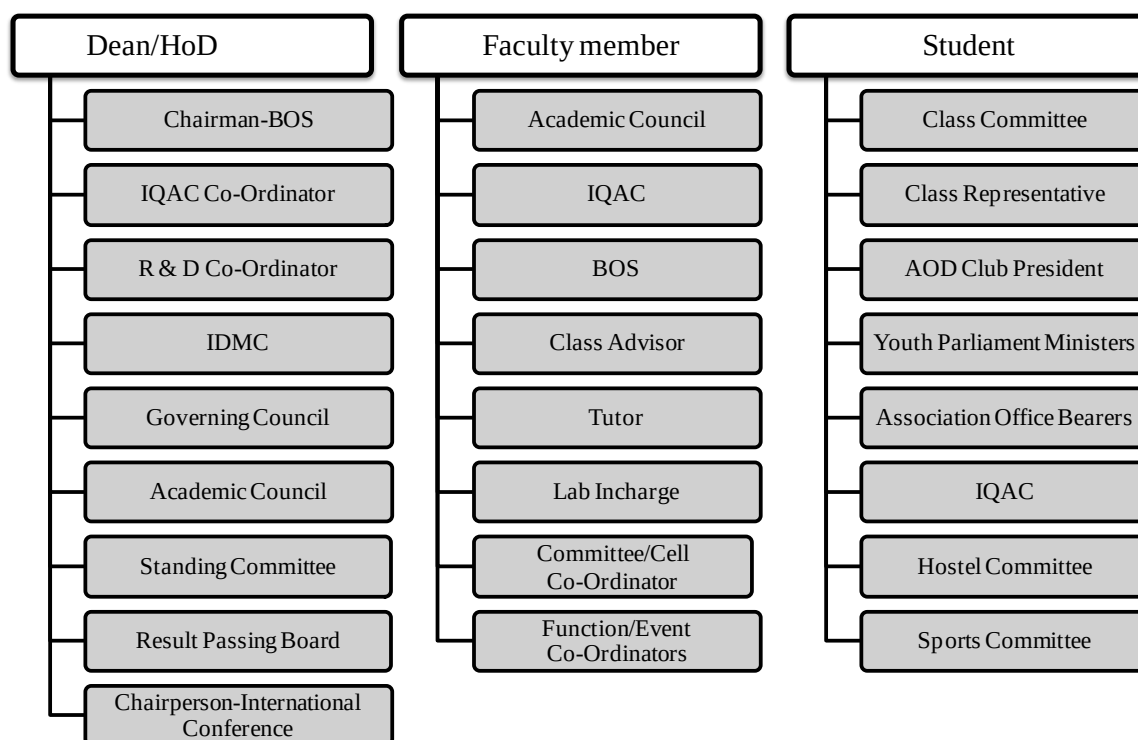


**Figure 6.2 Leadership grooming at various levels**

### 6.1.9 Has the College evolved any strategy for knowledge management? If yes, give details.

Yes. The college has developed strategies for knowledge management as follows.

#### ***Knowledge Creation, Enhancement and Management***

- Faculty members prepare course materials for each course as written /typed notes, handouts, Power points, models, animation, videos etc. These course materials are scrutinized and maintained in the department server for student's usage.
- Faculty members maintain a copy of all their course materials in the respective departments for further reference by other faculty members.
- Question Banks [Multiple Choice, two marks, descriptive] are prepared and

maintained for all the courses.

- Faculty members are encouraged to publish articles in journals of repute which are also available in the department for reference.
- Faculty members and students are encouraged to attend seminars, conferences, workshops to enhance their knowledge. Knowledge gained by participating in conferences / workshops are shared with others for knowledge enhancement.
- Organizing FDPs, Workshops, seminars, conferences, STTPs, Guest Lectures.
- The details of FDPs workshops, Conferences etc organized are documented.
- Deputing faculty members and students to attend the expert meets, industrial visits, industrial training and lectures to enhance the knowledge and develop skill sets.
- Research and Development cell conducts research workshops/seminars to enhance innovative research. SEED Money is given by the management to imbibe the research skill among students and faculty members.
- Newsletters, student's project reports and Ph.D. thesis etc., are kept in the library for ready reference by the academic community.

#### ***Knowledge Network***

- Good network has been established with industries and academicians to enhance R&D activities, inter-disciplinary projects and exchange of ideas.
- Membership in different professional bodies.
- MoUs for interaction with Industries and Foreign universities.
- Faculty and Student Exchange Programs.

#### **6.1.10 How are the following values reflected in various functions of the College?**

- \* **Contributing to national development**
- \* **Fostering global competencies among students**
- \* **Inculcating a value system among students**
- \* **Promoting use of technology**
- \* **Quest for excellence**

##### **a. Contributing to national development**

- The college provides world class education, thereby enabling students to compete with global challenges and provide solutions towards National Development.
- The college provides equal opportunity and supports various sections of the society. The management supports the financially weaker section/ single parent/ no parent students with special scholarships.
- Encourages faculty members and students to take up challenging research projects for solving societal issues and problems.  
The RRC, YRC, NSS and NCC units of the college organizes events like health camps, blood donation camp etc with the participation of various NGOs for the well-being of people in the nearby villages. National mission such as Swachh Bharat, Digital India are supported by organizing various activities and taking up initiatives in the college.

- Motivating students for entrepreneurship development through EDC cell which conducts various events to motivate the students to become an entrepreneur and support the national mission of “Make in India”.
- New courses which are the need of the Nation Viz. Agricultural Engineering and Biomedical Engineering have been newly introduced to meet the upcoming social issues.
- Contributing to environmental protection by increasing greenery in and around the campus and nearby villages through “Sapling Plantation” programs and rain water harvesting.

#### **b. Fostering global competencies among students**

- Updating the Curriculum regularly to meet the global expectation by benchmarking with the Program Specific Criteria stated by various International bodies such as ASME, ASCE, IEEE, Biomedical Engineering Society, etc.
- Practicing Outcome Based Education (OBE) and Choice Based Credit System(CBCS) allows students to choose the courses and course teachers of their choice.
- Encouraging students to participate in national and international events outside the campus.
- Organizing International seminars and conferences where reputed resource persons from foreign institutions are invited to have international collaborations.
- Encouraging students to publish their research findings in reputed International Journals and conferences.
- Inviting industry persons as members of BOS, who help in framing curriculum and syllabus at par with worldwide industrial need.
- Encouraging Faculty members and students to participate in webinars
- Arranging Internships/Exchange programs in international universities
- Providing financial assistance for participating in international conferences in aboard for faculty members and students.
- Providing practical exposure to students through internship and other initiatives to make them industry ready from day one.

#### **c. Inculcating a value system among students**

- Encouraging students to participate in NSS, NCC, YRC, RRC events/ camps to build citizenship values.
- Organizing events and awareness programs on 100% voting, Energy management, Pollution Control, Health Care, Fire, Safety, etc.
- Including courses such as Professional ethics and Environmental Science as a part of the curriculum.
- Allowing students to celebrate regional festivals to facilitate cultural exchange and to realize the Indian philosophy of Unity in diversity
- Involving students voluntarily to help poor, orphans, senior citizens and under privileged community.
- Conducting National and International days of importance like International Water Day, Independence Day, Republic Day, Teachers Day, Flag Day, Road Safety Week,

Science Day, Engineers Day and so on.

#### **d. Promoting use of technology**

The college promotes the use of technology through the following initiatives:

- Smart class rooms
- ICT based teaching (about 30-40% of content delivery is done using ICT)
- Online feedback system
- Online study material sharing(snsctcourseware)
- Online test component as a part of Internal assessment
- Conducting Webinars
- Subscription to IIT NPTEL & MOOC to supplement class room teaching.
- Publishing of end semester results by online.
- Wi-Fi enabled campus.
- Digital Library
- Student's daily attendance, internal assessment examination and end semester examination marks are sent to parents through SMS.
- Online test for placement training.

#### **e. Quest for excellence**

The Vision and Mission of the college itself reveals the focus quest for excellence.

- Sustaining and enhancing excellence through IQAC's initiatives.
- Students with outstanding performance [Academics, Sports, 100% attendance, Journal Publication, Notable achievements] are honored with Medals, awards and certificates to motivate them further.
- Academic toppers are provided with 50% of fees as scholarship every semester
- Faculty members are encouraged to excel in their areas of interest, publish papers, patents and secure funded projects. Publication in reputed Journals are awarded with cash prize.
- Focused Industry Institute interaction to take up consultancy projects to find solutions to societal problems.
- Seed money is provided by the management to assist the innovative research work carried by students and faculty.
- Faculty members who are awarded with Ph.D are honored during college day function every year.
- Funded projects from agencies –AICTE, UGC, IE(I) for excellent research and infrastructure development.
- College voluntarily participates in various **National surveys** and nominates for various awards to assess and demonstrate the excellence.
- Notable awards and rankings received last year are:
- **All eligible UG programmes of the college are accredited by NBA-AICTE by the Washington accord [An international accreditation body] .The College is also**

accredited with the highest grade of 'A' by the National Assessment and Accreditation Council (NAAC) –UGC.

- The MBA department of our college is ranked **62<sup>nd</sup> position under the category Beyond IIMs B-School Survey** conducted by the Higher Education review magazine in March 2015.
- The college is ranked **19<sup>th</sup> position** in the **Top 25 Engineering Colleges** for Excellent Faculty - the Higher Education Review, July 2015.
- The college is approved by UGC to establish DeenDayalUpadhyaycentres for Knowledge Acquisition and Up-gradation of Skilled Human Abilities and Livelihood. [DDU KAUSHAL] to conduct B.Voc and M.Vocprogrammes in Plumbing and Logistics & Supply Chain Management with an intake of 50 in each programme.
  - Across India 709 Institutions have applied for establishing DDU centres, out of which 65 Institutions were approved by UGC.
  - *Our college is one among the 2 engineering colleges out of the 6 self-financing colleges approved under this scheme in Tamilnadu state.*
- The college is awarded with the **“Best Engineering College for Industry Interface-India, 2015”** by **Centre for Education, Growth & Research(CEGR), New Delhi.**
- *The college is ranked 30<sup>th</sup> position in the Top 100 Private Engineering Colleges Survey 2015 - the Higher Education Review.*

**6.1.11 Give details of the UGC autonomous review committee’s recommendations and its compliance.**

• ***Recommendations by the Autonomous review committee:***

UGC autonomous review committee visited our college and conferred autonomous status for a period of six years from the year 2012-13 to 2017-18

• ***Positive Comments by the Autonomous Review Committee:***

- The College has good Infrastructure facilities like spacious, modern computer laboratories, on-line library resources, separate controller of examinations room.
- The management is well qualified and has a vision for academic excellence and is highly committed in providing quality education.
- The Institution has adopted ISO 9000:2008 Certification by TUV of Germany, having quality systems in place from 2004 onwards.
- The College is recognized by UGC under Section 2(f) and their applications for recognition vide section 12(B) is under progress with UGC.
- Three UG programs viz. CSE, ECE and IT are accredited by NBA (AICTE)
- The College maintains an average overall passing percentage of 80% for the last 5 years at the Anna University Examinations.

- The college has obtained 3 gold medals and 93 ranks in the Anna University Examinations held, for the past 5 years.
- A separate training and placement cell is in operation.
- A feedback system from Students, Alumni, Parents and Employees is in place.
- Tutor-Ward system is adopted where a teacher takes care of 20 to 25 students in regulating the attendance, obedience, discipline and personal grievances if any, of the students.
- The college is providing special support to the slow-learners.
- Remedial classes (after working hours) for the slow learners and bridge courses for the fresher's are some of the unique features in the teaching –learning process in the college
- Attendance of the students is constantly monitored and information regarding the students irregularity, performance in examinations, conduct in the campus is informed to the parents
- The college fully makes use of Information and Communication Technology (ICT) in teaching methodology.
- Digital Library, E-Library, NPTEL video access, Department library facilities are made available for students access.
- The college gets the self-appraisal report from faculty with a view to strengthen their professional competence and teaching skill.
- ***Autonomous committee Suggestions and follow up actions***

| Suggestions & Recommendations                                                                                                                     | Follow up actions                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emphasis on research may be strengthened by encouraging faculty to apply for extra mural Research Grants for carrying out research in the college | <ul style="list-style-type: none"> <li>• Faculty members and students of our college have submitted more than 300 proposals to various funding agencies in the last 4 years and received funds.</li> <li>• R&amp;D cell frequently organizes research seminar/workshops and also sanctioned seed money to implement their innovative ideas.</li> </ul> |
| Faculty could be encouraged to publish in peer reviewed journals with good impact factor                                                          | <ul style="list-style-type: none"> <li>• <b>Quality publication by faculty members have improved in the last four years</b> <ul style="list-style-type: none"> <li>○ Papers published in <ul style="list-style-type: none"> <li>▪ Scopus Indexed journals:115</li> <li>▪ Google Scholar Indexed journals:<b>288</b></li> </ul> </li> </ul> </li> </ul> |
| Number of e-journal subscribed and licensed software can be increased based on faculty specialization and research requirements                   | The library has subscribed to good number of e-journals to cater the needs of various disciplines.<br>No. of e-journals subscribed: 1499.                                                                                                                                                                                                              |
| Enhancement of IT resources for faculty members in their staff room could be made.                                                                | The college has provided twin sharing PC's for staff with internet and 24 / 7 Wi-fi facility.                                                                                                                                                                                                                                                          |



## **6.2 STRATEGY DEVELOPMENT AND DEPLOYMENT**

### **6.2.1 Does the College have a Perspective Plan for development? If so, give the aspects considered in development of policy and strategy.**

**Teaching and learning**

**Research and development**

**Community Engagement**

**Human resource planning and development**

**Industry interaction**

**Internationalization**

Yes. The College has specific plans of development for its academic and administrative units and defined strategy for its implementation to improve the overall quality of the functioning of college. The perspective plan for college development, including strategies and policies has been drawn for every 10-years.

#### ***Teaching and learning***

- Improvement of teaching – learning process through NPTEL, Video Conferencing etc.
- Adoption of Outcome Based Education (OBE)
- Implementation of Choice Based Credit System which allows flexibility in choosing courses and electives.
- Focusing on developing global competencies and industry ready work force.
- Students centered learning and teaching process.
- Maintaining a rigorous feedback system for making improvements.
- Implementation and follow up of skill development for students through Academic and Assessment record.
- Improving the student evaluation process by following the Bloom's Taxonomy
- Interactive and participative learning in all classes
- Experimental and Experiential Learning
- Smart classrooms facilities
- Implementation of innovative teaching pedagogies through CLT.

#### ***Research and development***

- All eligible Departments are to be approved as Research Centre by Anna University, Chennai.
- Encourage innovations, quality research publications and facilitating the infrastructure to pursue research activities.
- Undertaking various funded projects.
- Strengthening the relation with universities abroad

- Seed Money for students and faculty to encourage innovative research
- Encourage to do interdisciplinary projects
- Encourage faculty members to register for Ph.D. degree programme
- Support all Ph.D. holders to become supervisors recognized by Anna University
- Taking up more consultancy projects
- Filing of more Patents

### ***Community Engagement***

SNS Social Responsibility Initiative [SNS SRI] a community engagement activity by SNS group of Institutions.

- The students and staff members engage themselves actively in the community services through NCC, NSS, YRC, RRC etc.
- At least two community engagement activity by each department every academic year
- The students and staff members of SNSCT have actively contributed to the national development by Blood Donation, Health Care Camps, Planting Trees, Clean India Activities, Usage of renewable energy, helmet awareness etc.
- Organizing events to local community such as computer literacy, Vehicle emission awareness, Green Buildings etc.
- Vocational Programmes through DDU KAUSHAL for skill enhancement of the general public
- Taking part in any social needs for the benefit of society in case of any environmental disaster [Cuddalore Flood in 2015].

### ***Human resource planning and development***

- Taking appropriate measures for the welfare of both teaching and non teaching staff by providing allowances, incentives, group insurances, permission for pursuing higher studies etc.
- Recruiting required number of quality faculty members and staff as per the norms
- Training for faculty to be effective teachers through CLT & IQAC.
- The faculty members are deputed to undergo faculty development program, seminars, workshops etc to enhance the Teaching Learning Process.
- Providing a good and conducive working environment
- Rewarding faculty members based on their performance
- Following participative leadership styles

### ***Industry interaction***

- The college always aims to have a good interaction with the industry, and believes that the gap between industrial need and academia could be bridged by

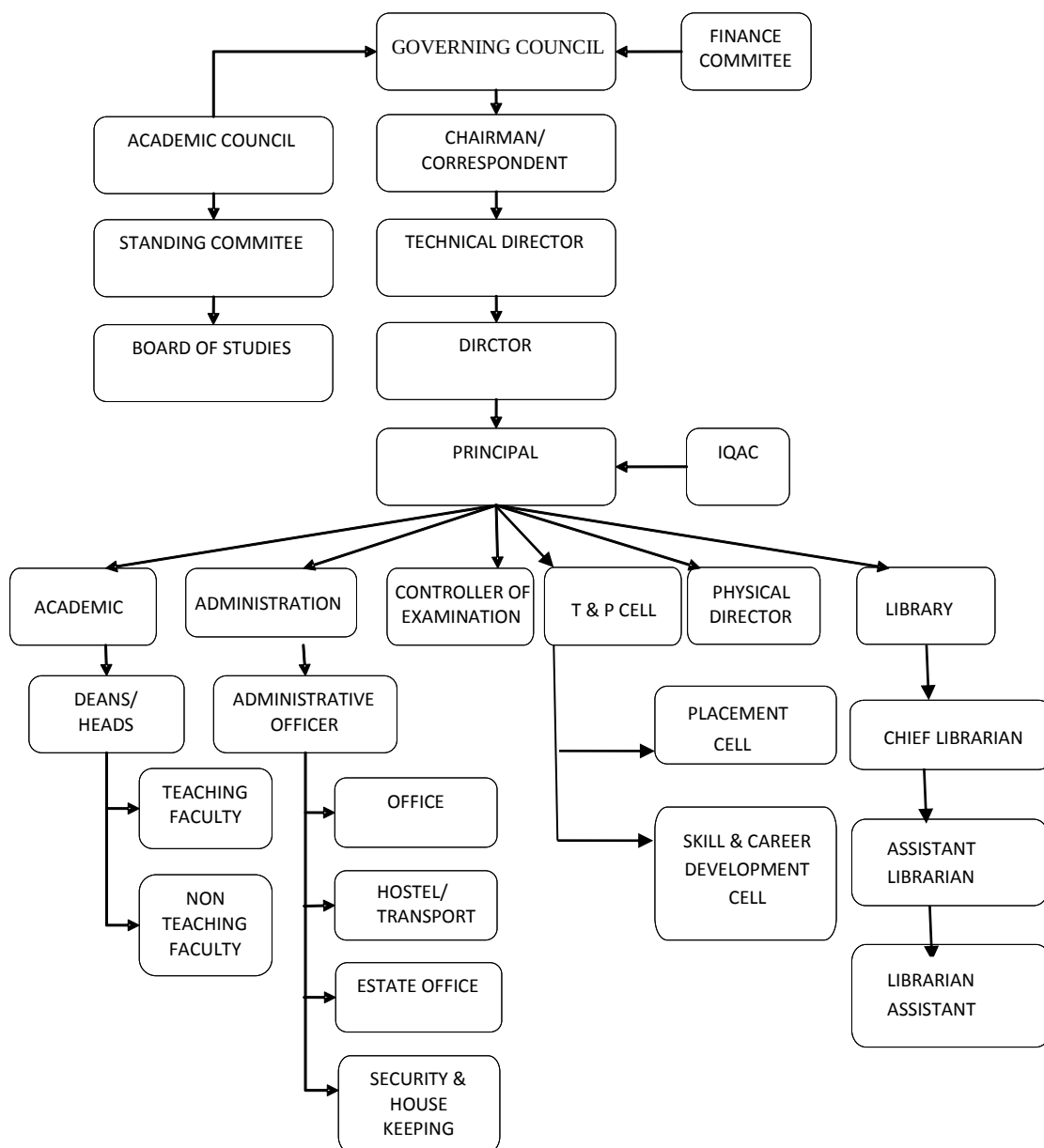
regular interaction with the industry.

- Designing of industry based curriculum.
- Development of laboratories in collaboration with industries
- Establishing industry interaction through Industry Institute Participation Cell[IIPC]
- Imparting in-plant training/internship/industrial training to students and faculty members at industries
- Inviting more people from industry to deliver Guest lectures
- Conducting workshops/Seminars/FDPs/STTPs in association with industry
- Industrial Projects and Consultancy works
- Organizing HR Conclaves /HR meets to provide platform for students to have close interaction with HRs/Technical experts from reputed institutions.

### ***Internationalization***

- Curriculum to suit Global requirements
- Organizing international conferences, seminars etc by inviting experts from abroad.
- Signing MoU with Foreign Universities [Kyungpook National University, South Korea] for Faculty Exchange, research collaboration etc .
- Accreditation by NBA-AICTE under Washington accord [An international accreditation body].
- Many students do their higher studies in International universities.

**6.2.2 Enunciate the internal organizational structure of the College for decision making processes and their effectiveness.**



**6.2.3 Specify how many planned proposals were initiated/ implemented, during the last four years. Give details.**

| Sl.No. | Proposal Details                                                           | Implementation Status                                                                                                                                                                                                                               |
|--------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Introduction of new UG and PG Programmes based on the needs of the society | <b><u>New Courses Started</u></b><br>1. B.E Automobile Engg.<br>2. B.E. Civil Engg& Planning<br>3. B.E. Agriculture Engg.<br>4. B.E. Biomedical Engg.<br>5. B.E. Mechanical and Automation Engg.<br>6. M.E.StructuralEngg.<br>7. M.E. Thermal Engg. |
| 2      | NBA accreditation for eligible programmes                                  | All the eligible programmes [B.E. CSE, EEE, ECE, Mech&B.Tech. IT] were accredited by NBA[Tier II]                                                                                                                                                   |
| 3      | Implementation of Choice based credit system                               | Started implementing from 2015-2016                                                                                                                                                                                                                 |
| 4      | Innovative Teaching Learning Methodology                                   | Implemented in a phased manner                                                                                                                                                                                                                      |
| 5      | Internship for Faculty and Students                                        | On progress                                                                                                                                                                                                                                         |
| 6      | ICT enabled classrooms and Smart rooms                                     | Implemented from 2015-16                                                                                                                                                                                                                            |
| 7      | Online examination                                                         | Introduced as a part of continuous assessment from 2014-2015.                                                                                                                                                                                       |
| 8      | Online feedback& review                                                    | Implemented                                                                                                                                                                                                                                         |
| 9      | Seed Money for Innovative projects                                         | Implemented from 2014-15                                                                                                                                                                                                                            |
| 10     | To adopt higher order thinking skills in Question paper preparation        | Implemented from 2013-14                                                                                                                                                                                                                            |
| 11     | Establishment of new Seminar halls                                         | Established 3 new seminar halls                                                                                                                                                                                                                     |
| 12     | Spacious food court                                                        | Implemented                                                                                                                                                                                                                                         |
| 13     | Open Auditorium                                                            | Established with a seating capacity of 8000                                                                                                                                                                                                         |
| 14     | Indoor game area                                                           | Indoor game area with 6 shuttle courts constructed                                                                                                                                                                                                  |
| 15     | Luxurious Guest house                                                      | Spacious pleasant, fully furnished guest house was constructed                                                                                                                                                                                      |
| 16     | Robotics Laboratory                                                        | Established in 2014-15                                                                                                                                                                                                                              |

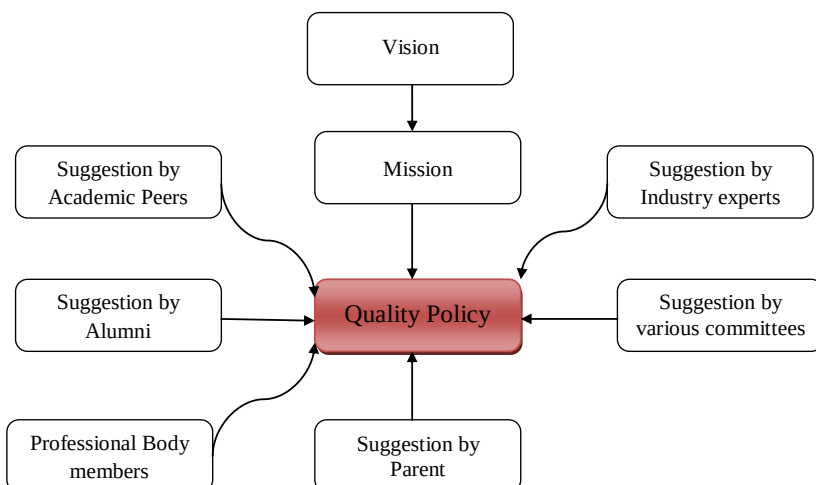
**6.2.4 Does the College have a formally stated quality policy? How is it designed, driven, deployed and reviewed?**

**Quality Policy**

*We, at SNS College of Technology as a dedicated team, are committed to constantly work for the student's continual improvement in terms of Quality in Education, Updated*

## ***Technical Knowledge, Personality Development and Career Advancement to meet the Challenges in the world.***

The quality policy has been designed with the suggestions from all the stake holders and it is derived from the vision and mission of the College.



The deployment of the quality policy in through:

- Publishing in college calendar, student note books, magazines, display boards etc.,
- Meetings held for faculty and students
- Alumni meetings
- Website of the College

The quality policy is reviewed in Management Review meetings, HoD Meetings and academic audits.

### **6.2.5 How does the College ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?**

- The college has a Grievance redressal committee, for receiving complaints and grievances with an external member as head and senior faculty as members in the committee.
- Anti Ragging Committee takes care of any complaints regarding ragging in the campus and hostel and Anti-Ragging squad monitors the whole college regarding any incident of ragging.
- In addition to this we have internal complaints committee having the members of faculty and deputy warden of the hostel. These committees receive the grievances from the students and take suitable actions immediately.
- Along with these two committees, students can also represent their problems in
  - Class committee meeting
  - Tutor ward meeting
  - Hostel meeting

- Disciplinary Committee.
- Grievances and suggestions are also received from parents and alumni whenever they come to the campus.
- Suggestion boxes are placed in prominent places to receive the grievances/complaints; immediate steps are initiated to redress the grievances.
- An e-mail [helpline.snsct@gmail.com] is provided to the students to send their grievances as and when they experience.
- Students and staff have direct access to Principal to represent their grievance if they have any difficulty with the above means.
- Grievance regarding valuation could be addressed through procedures such as revaluation, getting photocopy of answer scripts, challenge revaluation, Examination Malpractice Committee

This ensures a better relationship with the stakeholders.

#### **6.2.6 Does the College have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?**

Yes. College has a well-established mechanism for obtaining the feedbacks from the students to improve the performance and quality of the institution.

- Each department collects the feedback from the students through structured questionnaires. Feedbacks are obtained on teaching-learning processes, faculty members' performance, end semester question paper and curriculum & syllabi. Suitable corrective actions are taken based on the feedback.
- The class committee meetings are conducted twice in a semester, where feedback and suggestions are collected from the students on general amenities and necessary actions are taken immediately based on the feedback.
- At the end of the programme exit survey is collected from the passing out students on institutional performance.
- The feedback collected is analyzed and necessary steps are taken immediately.

#### **6.2.7 In what way the affiliating University helped the College to identify the developmental needs of the College?**

- University affiliation inspection committee checks periodically the adequacy of faculty, infrastructure and other facilities for the conduction of various programmes.
- University Nominees have been appointed by the affiliating university in the statutory bodies of the college such as
  - Governing Council
  - Academic Council
  - Board of Studies
  - Result passing board

They share their expertise and experience in the academic and nonacademic development of the college. This helps for the development of quality of education in the college.

- University appoints University representatives for monitoring the effective conduction of end semester examinations
- University sponsors fund through Centre for Faculty development to organize Faculty Development Training Programme in the college on specific areas.
- University approves departments as Recognized Research centre for doing M.S. by research and Ph.D. in order to promote research activities.
- University organizes Pooled Campus Drives every year for students of various colleges inviting renowned recruiters such as TCS, Wipro, Infosys etc. through which they identify the gap prevailing between industry and institutions.

**6.2.8 Does the affiliating university have a functional College Development Council (CDC) or Board of College and University Development (BCUD)? If yes, In what way College is benefitted.**

No, the affiliating university does not have a functional College Development Council or Board of College and University Development.

**6.2.9 How does the College get feedback from non-teaching, teaching, parents and alumni on its functioning and how it is utilized.**

- Non-teaching staff are encouraged to give their feedback at any point of time orally or in writing to the HODs to improve the functioning of the lab, office maintenance, to up keep the equipments in working condition and provide necessary assistance to students.
- Department meeting for teaching faculty are conducted periodically to get the feedback and to take remedial actions for academic improvement. Feedbacks regarding the functioning of the college on both academic and non-academic issues are obtained and suitable actions are initiated.
- Parents are called over phone and discussed about academic performance of their wards. Parents are invited as and when required to discuss overall performance of their wards. Feedback from parents is collected on the general amenities, facilities and functioning of the college during their visits.
- At the end of the programme feedback from Alumni is collected on the infrastructure, functioning and other services of the college. Feedbacks from alumni are also collected whenever they come to the college after graduation.
- These feedbacks are thoroughly analyzed and necessary steps are taken immediately.

**6.2.10 Does the College encourage autonomy to its academic departments and how does it ensure accountability?**

Yes. The college encourages fully fledged autonomy to its academic departments.



- Departments are given autonomy in designing of curriculum and Syllabi, introducing new courses with the approval of BOS and academic council.
- Departments have the autonomy to prepare their yearly plan, timetables, etc.
- Departments are given freedom to conduct additional classes, continuous assessment, organizing seminars, symposia, workshops, conferences, faculty development programmes, and research and consultancy activities.
- Departments are encouraged to offer value added courses which are needed for placement and entrepreneurship.
- HOD's are authorized to sanction leave for their department staff members. They are free to make decisions relating to their day to day activities.
- Faculty members are give autonomy in planning their lesson plans, usage of teaching aids, content delivery methods, Assignments, innovative teaching practices etc
- Financial power is delegated to the Head of the Departments up to Rs.5000 for meeting the immediate vital expenses.
- Departments have the autonomy to initiate innovative practices for departmental growth and development.
- Accountability is ensured through regular monitoring and review process at departmental level by HOD and College level by the Principal. Faculty performances are accountable through Self Appraisal submitted at the end of every academic year.

#### 6.2.11 Does the College conduct performance auditing of its various departments?

The College does performance auditing of its various departments regularly.

| Name of the Audit                    | Frequency                                          | Method                                                                                                                                                                                                                                       |
|--------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IQAC-Internal Academic Audit</b>  | Once in a semester                                 | At the end of every semester each department will be assigned with an audit team by IQAC, to audit all the academic records, files pertaining to participation, publication, research, etc                                                   |
| <b>IQAC- External Academic Audit</b> | Once in a year                                     | At the end of each year IQAC conducts an external audit with expert committee consisting of members from reputed institutions, to audit all the documents of the department.                                                                 |
| <b>Action Plan Meeting</b>           | Once in a year (At the beginning of academic year) | HoD and department faculty members fix the target for the department in academic, co-curricular and extracurricular activities. The previous year achievement against the target will also be analyzed and new strategies would be finalized |
| <b>Result Analysis Meeting</b>       | Once in a semester                                 | End semester results are analysed in detail considering the pass %, grades obtained, CGPA etc.                                                                                                                                               |

|                              |                |                                                                                                                                |
|------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Exam process audit.</b>   | Once in a year | To audit documents regarding autonomous exam conduction.                                                                       |
| <b>Stock Verification</b>    | Once in a year | To verify the stocks in the Library, laboratories, departments, hostel, office, sports and other extracurricular activities    |
| <b>Academic Preparedness</b> | Regularly      | Principal, HoDs, IQAC check the lesson plan, course materials, lab execution, class room delivery, attendance & mark entry etc |
| <b>Administrative Office</b> | Once in a year | To audit all the office documents                                                                                              |

### 6.3 FACULTY EMPOWERMENT STRATEGIES

#### 6.3.1 What efforts are made by the College to enhance the professional development of teaching and non teaching staff?

College takes efforts to enhance the professional competency of the faculty members through various development measures.

##### *Teaching Staff*

- Supported and motivated to pursue higher studies. 82 faculty members are pursuing Ph.D. degree as of now.
- Permitted to attend Seminars/workshops/ STTPs/FDPs/Other training programs organized by other institutions.
- Allowed them to undergo industrial training during vacation to have industrial experience.
- Encouraged each department to conduct workshop, seminars and orientation programs for faculty members.
- Autonomy in lesson planning and implementing innovative teaching methods.
- Motivation to publish their research work in international conferences and reputed journals.
- Sponsorship of 50% of the registration fee in case the faculty participating in conferences, seminars etc.
- Awarded with cash prize of Rs.1500 and Rs.1000 for publication in international and national journals respectively.
- Enhancement in teaching, training and learning facilities by establishing new laboratories and strengthening library by online journals and e-resources.
- Induction/Orientation Programs are conducted for new employees every year.
- Workshops on Accreditation procedures, Implementation of autonomy, Outcome Based Education, Choice Based Credit System etc are organized regularly.

##### *Non - Teaching Staff*

- Permitted to do higher studies during the last four years.

- Conducting various development and training programmes for the skill enhancement of non teaching technical staff members
- Technical staff members are permitted to attend training in Industries every year.
- Special programmes are arranged for Non-teaching staff in the office.
- Training programmes on Health and Safety using fire extinguisher is also conducted regularly.

**6.3.2 What is the outcome of the review of the Performance Appraisal Reports? List the major decisions.**

- Performance Appraisal Reports of the faculty members are obtained through self appraisal, submitted by the faculty every year. Self Appraisal forms are meticulously prepared including all the criteria. The data in the self appraisal is verified by the concerned HoD.
- The college sets benchmarks for the faculty members. Major areas covered in the self appraisal are: Academics, Research& Consultancy, Admission, Co-curricular & extracurricular activities. Based on the self appraisal marks suitable feedbacks are given to faculty members for improvement. Individual targets are fixed for faculty improvement.
- Faculty members under probation period shall attend a meeting where their self appraisal marks and other qualities are assessed. If it is not satisfactory the probation period is extended for one more year.
- Performance based incentives are proposed.
- Due weightage to Performance Appraisal Reports while elevating to higher cadre.
- Training needs for faculty members are identified based on performance appraisal.

**6.3.3 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?**

| Sl.No. | Welfare scheme                   | 2012-13               | 2013-14 | 2014-15 | 2015-16 |
|--------|----------------------------------|-----------------------|---------|---------|---------|
|        |                                  | % of staff benefitted |         |         |         |
| 1      | Group Insurance                  | 0.32                  | 0.27    | -       | 0.5     |
| 2      | Employees Provident Fund         | 100%                  |         |         |         |
| 3      | Casual Leave[12days/yr]          | 100%                  |         |         |         |
| 4      | Medical Leave                    | 6.41                  | 9.04    | 5.98    | 6.03    |
| 5      | Maternity leave                  | 4.16                  | 3.01    | 2.34    | 2.51    |
| 6      | Vacation Leave                   | 100%                  |         |         |         |
| 7      | On-Duty to attend events outside | 100%                  |         |         |         |
| 11     | Canteen                          | 100%                  |         |         |         |
| 12     | Hospital                         | 100%                  |         |         |         |
| 13     | Gratuity                         | -                     | 0.27    | 0.26    | -       |

#### 6.3.4 What are the measures taken by the College for attracting and retaining eminent faculty?

The college takes adequate steps to retain its faculty members. The college also strives to bring the eminent faculty members in to the campus for the benefit of the academic community. Steps taken in this regard are:

- Anna University recognized Research centres
- Seed money for doing projects
- Pay scale as per VI Pay commission
- Good Working ambience.
- Awards for publication in National & International Journals
- Incentives for funded projects and Consultancy works
- Sponsorship upto 50% registration fee to attend conferences, seminars/workshops/FDPs/STTPs etc
- Admission to the son/daughter of the faculty of the college in SNS Institutions with fee concession.

#### 6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings.

The college follows admission procedures as per the norms of state government and DOTE. Hence there is no discrimination in genders during admission and recruitment; however the college always provides equal opportunities for both genders. The college has conducted gender audit every year. Many important positions of the college such as Correspondent, Assistant Director Quality Assurance & Projects, IQAC Coordinator and few departments are headed by women. Based on the audit Conducted in past 4 years the following are the salient findings observed.

| Category           | 2012-13 |       | 2013-14 |       | 2014-15 |       | 2015-16 |       | 2016-17 |       |
|--------------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
|                    | Men     | Women | Men     | Women | Men     | Women | Men     | Women | Men     | Women |
| Students           | 1888    | 1255  | 2097    | 1550  | 2667    | 1213  | 2669    | 1150  | 2842    | 1116  |
| Teaching Staff     | 138     | 114   | 176     | 108   | 204     | 100   | 146     | 162   | 169     | 161   |
| Non-Teaching staff | 35      | 39    | 40      | 38    | 38      | 45    | 45      | 42    | 63      | 19    |

#### 6.3.6 Does the College conduct any gender sensitization programs for its staff?

Yes, the College conducts gender sensitization program regularly for its staff.

#### 6.3.7 What is the impact of the University's UGC-Academic Staff College Programmes in enhancing competencies of the College faculty?

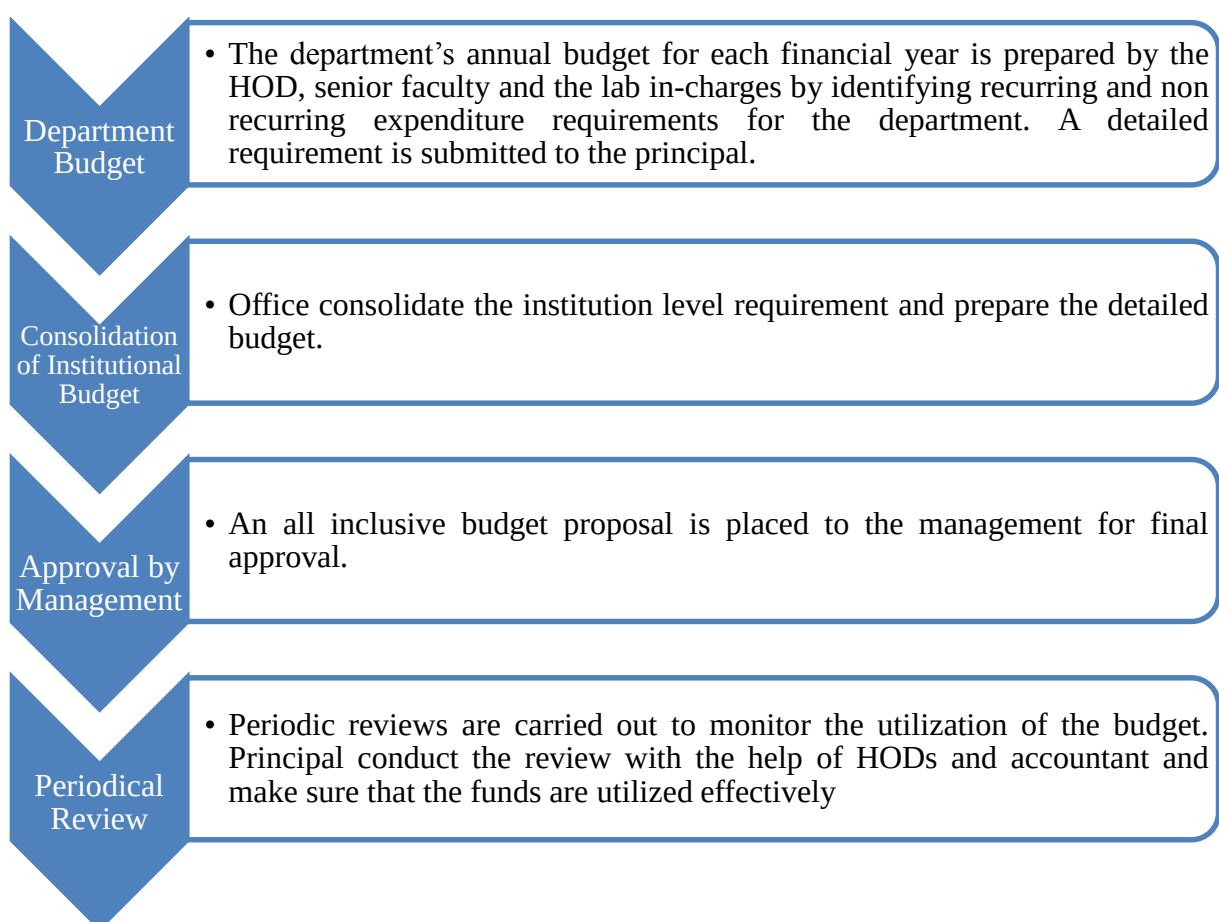
The affiliating University does not have Academic Staff College. However, the College has conducted Faculty Development Programmes sponsored by affiliating University through Centre for Faculty Development (CFD), AICTE and other funding agencies. Such programmes have helped to enhance the competencies of the faculty members

## 6.4 FINANCIAL MANAGEMENT AND RESOURCE MOBILIZATION

### 6.4.1 What is the institutional mechanism to monitor effective and efficient use of financial resources?

The college has a mechanism to monitor the effective and efficient use of financial resources. Academic departments, CoE office, Estate Office and others prepare their budget based on their requirements. Individual departments budget are scrutinized by the Principal. The college prepares yearly consolidated budget for allocation of funds for optimal utilization of available resources. The financial resources are monitored as per the Budget Proposal and Approved in the Budget Approval Meeting. All purchases are made as per procedure specified in the regulations. Stock registers, consumable stock registers and maintenance register are maintained by the Departments and the College. These are regularly audited by the auditors.

#### Annual Budget Preparation and Approval Process:



**6.4.2 Does the College have a mechanism for internal and external audit? Give details.** Yes, the college has a well structured mechanism of internal and external audit.

***Internal Audit:***

- Ensures whether expenses incurred are in accordance with the budget approved.
- An internal approval system is in practice for all expenses made.
- Internal Audit is done by the college accounts section and the accounts department of the Trust office.

***External Audit***

- Book of accounts are prepared as per statutory requirement and audited annually by External Qualified Chartered accountants.
- M/s K.S. Palanisamy & Co. Audit the trust documents and are responsible for filing of returns with Income Tax department and others.

***Details of the external audits conducted for the past four financial years:***

| Financial Year | Date of Audit | Name and Address of the Auditors                                       |
|----------------|---------------|------------------------------------------------------------------------|
| 2012-13        | August 2013   | K.S. Palanisamy & Co.,<br>Dr.Radhakrishna Road,<br>Tatabad,Coimbatore. |
| 2013-14        | August 2014   |                                                                        |
| 2014-15        | August 2015   |                                                                        |
| 2015-16        | August 2016   |                                                                        |

**6.4.3 Provide audited income and expenditure statement of academic and administrative activities of the previous four years.**

- Annual Income and Expenditure statements are prepared at the end of every financial year by the accounts department and duly submitted to the Auditors.
- Enclosed copy of the audited Income and Expenditure statement for 4 years from 2012 to 2016 in Annexure 6.1

**6.4.4 Have the accounts been audited regularly? What are the major audit objections and how are they complied with?**

Yes, the college accounts are audited regularly. There are no major audit objections raised in the past 4 years.

**6.4.5 Narrate the efforts taken by the College for resource mobilization.**

The college mobilizes the resources through following means:

- Fees collected from the students
- The grants from funding agencies like UGC, DST, DRDO, CSIR, AICTE, NPCIL and Anna University.
- The sponsorships obtained from Societies and Government organizations.
- Funds generated through Consultancies
- Funds from Management

#### **6.4.6 Is there any provision for the College to maintain the ‘corpus fund’? If yes, give details.**

Yes, the college maintains a corpus fund of Rs.2 Crores.

### **6.5 INTERNAL QUALITY ASSURANCE SYSTEM (IQAS)**

At SNSCT, we follow a rigorous Quality Assurance (QA) process that sets us apart from other engineering institutes in the region. IQAC functions effectively comprising of members as per the guidelines of UGC. The Internal Quality assurance committee comprises of the Principal, Director of Quality Assurance, IQAC Co-ordinator & Heads of the departments are responsible for the effective implementation of the IQAS. Our QA process includes but is not limited to the following:

**Outcome-based education** - Outcome-based education (OBE) is an educational theory that bases each part of an educational system around goals (outcomes). By the end of the educational experience each student should have achieved the goal.

**Ecosystem Framework** - The Eco-System Framework of the SNS Educational and Charitable Trust is centered on creating a student enabled environment in all its constituent educational institutions. Towards this end, the society is making concerted efforts to create a real infrastructure of learning that would catalyze the holistic development of the student at the U.G. and P.G. levels. The framework is so structured as to nurture innovative thinking amongst all students. The trust is wholly committed to providing an enriched environment of learning to all the students passing through the portals of its educational institution. One of the main focus areas of the trust is the institutionalization of early-stage small businesses by creating an ecosystem of resources and infrastructure to promote entrepreneurship amongst students.

#### **Internal Academic Audit**

In addition, we also conduct regular internal audits by our departmental heads in order to assure ourselves that we are complying with all the UGC, AICTE, Anna university norms and that the students are getting the best return on their time and money investment on their education at SNSCT.

#### **Student Feedback**

At SNSCT, lot of attention is paid towards student’s feedback and feedbacks are collected at least twice a semester. The college acknowledges that students are the key stakeholders and their personal satisfaction with the quality of education that they are receiving at SNSCT must always be held supreme. Students and their parents' constructive suggestions for the improvement of the teaching methodologies, faculty-student interaction, and the amenities they receive at SNSCT campus and hostel etc. are taken up seriously and actions are initiated immediately.

#### **6.5.1 Does the College conduct an academic audit of its departments? If yes, give details**

Yes. Internal and External Academic audit of the department is conducted regularly by the IQAC. The internal audit is conducted once in a semester and external audit once in a year. Academic Audits are conducted by IQAC regularly,

- To ensure effective, efficient and progressive performance in academics and administration

- To ensure the attainment of learning outcomes with respect to the bench marks
- To augment the use of Modern Methods of Teaching & Learning
- To Guarantee Credibility of evaluation procedures
- To ensure adequacy & maintenance of infrastructure and other services

The Academic Audit committee is constituted by the Principal to review the academic process of the departments.

- The internal auditors are nominated from the various departments of the college. The auditors conduct academic audit periodically with prior intimation to the department to assess the academic process and submit the report to IQAC.
- Based on the suggestions given by the internal auditors, corrective actions are taken by the IQAC and implemented by the departments.
- Annual external academic audit is carried out by a committee comprising of external academic experts from reputed institutions to ensure the quality in teaching and learning and other academic processes followed.
- The external auditors review all the documents maintained by the department, the internal audit reports and the action taken reports of all the departments to ensure the quality in all aspects.
- The auditing process helps to further improve the system by effective corrective measures taken by the departments as per the suggestions given by the internal and external auditors and IQAC of the college.
- In addition to the departments, COE office, Extra and co-curricular activities are also audited regularly.

#### **6.5.2 Based on the recommendations of academic audit what specific measures have been taken by the College to improve teaching, learning and evaluation?**

Based on the observations and recommendations made by the committee the heads of the various departments are asked to take necessary corrective measures to improve the academic and administrative performance. Some of the specific measures regularly taken for the continuous improvement of teaching, learning and evaluation process are;

- Increasing the frequency of screening NPTEL videos for students and faculty
- Increasing the frequency of Guest lectures by industrial experts and Alumni
- More number of Faculty Orientation Programs for junior faculty members.
- Being an autonomous college new evaluation methods may be introduced.

#### **6.5.3 Is there a central body within the College to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

IQAC is the central body within the College to continuously review the teaching learning processes of all the departments. A Centre for Learning and Teaching (CLT) has been established specifically to maintain SNS teaching learning culture.



The following is the structure of the Internal Quality Assurance Cell of the college for the assurance of the quality in the academic attainment of the college. The review of the teaching learning is a collective responsibility of all stakeholders and so the college has given the responsibility of quality assurance at all levels of the organization. However, the Quality Assurance Committee has been given the responsibility of continuously monitor the system effectiveness through the periodical audits and observations and has been asked to give suggestions and recommendations on the required changes in the system.

#### **Composition of the Internal Quality Assurance Cell:**

|   |                                         |
|---|-----------------------------------------|
| 1 | • Chairperson- Head of the Institution  |
| 2 | • Senior Administrative Officers        |
| 3 | • Management                            |
| 4 | • Nominee from Local Society - Academia |
| 5 | • Nominees - Alumni                     |
| 6 | • Nominee from Industry / Employer      |
| 7 | • Nominees - Students                   |
| 8 | • Few Faculty Members                   |
| 9 | • Coordinator of IQAC                   |

#### **Methodology of Operations:**

IQAC provides guidelines and methodologies to be followed during teaching learning process. Specifically the Director, CLT and the faculty members in CLT are responsible for maintaining SNS culture, faculty recruitment & training, monitoring teaching & learning and appraisal.

Guidelines on the roles and responsibilities of CLT has been developed to provide a description of activities undertaken by the group and as a guide for discussion at the College level.

CLT is responsible for promoting excellence in teaching and enhancing and assuring the quality of teaching and learning in the College. The Internal Quality Assurance Cell[IQAC] and Centre for Teaching and Learning[CLT] are instrumental in the following:

##### **1. Leadership:**

- Providing leadership and support to faculty to improve teaching effectiveness and student learning in the context of College Quality policy
- Leading, supporting and promoting the adoption of best practices and innovation in curriculum design, teaching and assessment
- Identifying emerging teaching and learning issues and opportunities of relevance to the College
- Developing and implementing the Institution's Teaching and Learning Strategic Plan

- Encouraging, recognizing and rewarding high quality teaching and learning

## **2. Quality Assurance:**

- Ensuring teaching and learning practices accord with College policy, Faculty and college procedures
- Monitoring all aspects of assessment including assessment design, compliance with examination processes, moderation of results, and finalization of grades
- Overseeing the checking of course profiles
- Preparing for program, course, reviews, and accreditation where appropriate
- Assisting with Curriculum and Staff Performance Appraisal and Academic Program Review processes.

## **3. Management:**

- Overseeing all major changes to the College's courses and programs
- Providing the College with analysis and advice on pedagogical issues including teaching, curriculum design, assessment and evaluation
- Identifying and coordinating staff development needs to enhance the quality of teaching, learning and assessment, academic guidance and learner support
- Advising the Principal where appropriate on resources required for teaching and learning, including the College's teaching and learning budget and allocation of teaching work loads
- Ensuring effective communication between academic and administrative staff in the area of teaching and learning
- Ensuring effective communication between institution, faculty and central committees around teaching and learning

## **Outcomes:**

- Academic calendar & Teaching Plan: The detailed layout of the teaching plan is offered in the Academic Calendar. The plans generally highlight the content and time schedule for completion of the chapters. Moreover, the teachers would know the time frame for teaching – learning process and ensure the total attention for the completion of syllabi and possible revision. The Head of the Department distributes syllabus for each course taught in the college among the teachers in the respective department. Monitoring and necessary mid-term corrections are made primarily by the head of the department in consultation with respective teachers in the departmental meetings.
- Learner-centric education approach through appropriate methodologies like academic calendar, interactive & instructional techniques like audio-visual mode of teaching, ICT based learning, organizing seminars, debates, lectures by experts from other colleges & universities, inter-departmental lecture exchange & presentations. This is accompanied by experiential teaching like projects-based learning, field work, surveys, experiments and practical classes, etc.

- Detail information about the evaluation methods and the examination schedule is given in the prospectus from the time of their admission in a course and also in the academic calendar at the beginning of a session.
- The Principal regularly meet the Head of the Departments and take feedback on the teaching learning progress of each department.
- Thus, the systematic planning, organisation and implementation of teaching – learning – evaluation is possible within the total scheme of university schedule. Through this, the student feedbacks, stakeholder interactions and academic audit have been formalized. The preparation of departmental academic calendar, course plans, remedial classes, and induction and orientation activities, mentoring processes, academic audit and career counseling activities have become regular.

#### **6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?**

Internal Quality Assurance Cell of the College has developed several quality assurance mechanisms within the existing academic and administrative system.

- From the beginning the main objective of the cell is to plan and implement quality initiatives and monitor the progress. It follows its calendar for meetings, quality agenda and maintains its proceedings.
- Effective implementation of the recommendations of the NAAC Peer Team visit and NBA reports.
- It supports to conduct workshops, awareness programmes, special lectures on quality innovations, curricula, teaching-learning & evaluation, CBCS, Blooms Taxonomy, research oriented seminars etc.
- It coordinates with all stakeholders for their opinions and advices for quality sustenance and quality improvement.
- Dissemination of information on various quality parameters of higher education.
- Monitors documentation of the various programmes/activities leading to quality improvement.
- It analyses the feedback received from all stakeholders and inform the concerned about its outcome for correction and modification. It also appreciates & encourages and provides support required by all staff for their and quality sustenance and quality improvement in teaching, research & administration.
- The regular activities of IQAC for institutionalizing quality assurance strategies are shown in the figure.

|    |                                                                                                                              |
|----|------------------------------------------------------------------------------------------------------------------------------|
| 1  | •Preparation of Yearly Action Plan with quality benchmarks- Action Plan Meeting                                              |
| 2  | •Development of a standardized system with 14 co-ordinators in each department taking care of all the activities             |
| 3  | •Framing the guidelines for each faculty member with their academic, administrative and research responsibilities            |
| 4  | •Formatting all the documents prevailing in the college                                                                      |
| 5  | •Follow up of all the activities carried out by each department –Presentation by HoD at the end of each quarter of the year. |
| 6  | •Internal Audit of all Log Books and Answer Scripts-Once in a Semester                                                       |
| 7  | •Academic Audit of all the documents at the end of the semester. External Audit -end of the academic year                    |
| 8  | •Organizing Faculty Orientation and Faculty development Programmes                                                           |
| 9  | •IQAC Quarterly Report & AQAR Preparation                                                                                    |
| 10 | •Self Appraisal & Conduction of Faculty appraisal meeting, Post Confirmation after Probationary period– once in a year       |
| 11 | •Aiming for Quality Culture in all areas                                                                                     |

**6.5.5 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.**

Yes. The IQAC has external members from different sections of the stakeholders like academia, industry, regulatory bodies, research organizations, alumni.

The composition of IQAC as per the norms and guidelines of UGC:

**List of few External members of IQAC:**

- i) Dr.B.Sampath Kumar - Former Principal &Secretary PSGCAS, Coimbatore.
- ii) Dr.Sriram Devanathan - Chair - IQAC, Amrita University.
- iii) Er.K.Ramasamy – Texmo Industries(Rtd), Industrialist.
- iv) Er.U.Kallelurrahman, Project Lead, CTS, Coimbatore
- v) Mr.D.Devarajan-Proprietor,Dev International, Coimbatore
- vi) Mr.D.Nivas,Telemotive AG, Germany

**Contributions of External members of IQAC:**

The members have contributed significantly to all discussions in implementing quality assurance and sustenance initiatives. They have shared their experiences in improving various work situations and offer valuable suggestions in improving the teaching and learning processes. Suggestions given by them are considered by IQAC during the decision making process. Significant contributions made by such members are listed below:

| Date       | Name of the Member                                                         | Points suggested                                                                                                             | Action Taken                                                                                                                           |
|------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 3.8.2015   | Dr.Manian                                                                  | Internship to be strengthened                                                                                                | Implemented                                                                                                                            |
| 31.10.2015 | Dr.B.Sampath Kumar,<br>Former Principal<br>&Secretary<br>PSGCAS,Coimbatore | More steps shall be taken to improve the results of arrear students                                                          | Coaching classes<br>Counseling Ensuring availability of materials<br>Special classes during study holidays                             |
|            | Mr.D.Devarajan<br>Proprietor<br>Dev International                          | Invite Industry giants<br>Learn patenting methods                                                                            | More Industrial guest lectures and eminent people from industry are invited.<br>Patenting workshop organized and 3 have filed patents. |
|            | Mr.D.Nivas<br>Telemotive AG,<br>Germany                                    | Faculty shall know the industry requirement which would help them during teaching.                                           | Faculty members are sent for industrial training during holidays/vacation.<br>Interaction with industry experts.                       |
| 3.1.2016   | Dr.B.Sampath Kumar,<br>Former Principal<br>&Secretary<br>PSGCAS,Coimbatore | Instructed to form a Quality Circle                                                                                          | Formed in each dept with 3 Faculty Members and they would meet twice in a semester.                                                    |
|            |                                                                            | Quality of question paper to be checked by external members from standard institutions.                                      | Scrutiny by eminent experts has been carried out.                                                                                      |
| 18.01.2017 | Dr.SriramDevanathan,<br>Chair-IQAC, Amrita University                      | Informed to introduce non credit courses in curriculum.                                                                      | Implemented                                                                                                                            |
|            | Dr.B.Sampath Kumar,<br>Former Principal<br>&Secretary<br>PSGCAS,Coimbatore | Insisted faculty to motivate students to participate in online courses (MOOC and NPTEL Courses).                             | Student and Faculty members have registered in MOOC and NPTEL Courses.                                                                 |
|            | Er.K.Ramasamy,<br>Sr.Technical Manager(Rtd),Texmo Industries               | Insisted to find the need for industry-Institute collaboration and advised to frame the curriculum in order to meet the need | Implemented                                                                                                                            |

Inclusion of business communication, general awareness, aptitude and etiquette classes were included in the regular time table as per the recommendations of IQAC.

Alumni give suggestions and feedbacks on various activities of the institute during the Alumni meet as well as interactions with the teachers as and when they come to the campus. Alumni association meetings are also conducted to have discussions with alumni regarding quality improvements

**6.5.6 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?**

Yes. The academic growth of the students from disadvantaged sections of society is being monitored on a regular basis by the individual departments. The slow learning students are identified for suitable counselling and remedial actions. They are given extra coaching based on their requirement. The disadvantaged students are identified and are taken care based on their needs. Bridge courses are conducted to lateral entry students; financial support is provided to students with poor economic background; English communication classes are conducted for students from Tamil medium. Tutors continuously follow their academic growth.

**6.5.7 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?**

Periodic review of administration in the college is done through student feedback. Policy of periodically reviewing AQARs is in place. It reviews the academic departments, subject areas and research activities. An internal audit of each department is scheduled during each semester in which faculty members from other departments review the performance of the department during the last semester. The course files of all courses are scrutinized to verify all activities related to teaching learning and evaluation processes have been completed as per norms. Discrepancies, if any, are reported in the form of non conformance report for which the department must submit a report on corrective actions taken. The College is keen to realize the concepts of Autonomy with Accountability, Value-based Governance, ICT enabled administration and Participative Management & Collective wisdom. Regular interactive meetings with HODs, officials and employees are organized for this purpose.

***Criterion VII***  
***Innovation and Best***  
***Practices***

## **CRITERION-VII**

### **INNOVATIONS AND BEST PRACTICES**

#### **7.1 ENVIRONMENT CONSCIOUSNESS**

The college takes care of maintaining green environment through the following initiatives

##### **7.1.1 Does the College conduct a Green Audit of its campus?**

Yes. The college conducts green audit internally. The committee ensures the eco-friendliness of the campus through planting sapling in and around the campus every year. Nearly 841 plants and 285 trees are existing inside the campus. The trees and plants which already exist are well maintained with the help of gardeners. Apart from this, environmental awareness programs are conducted for the students and public through various clubs and departments every year. Electricity consumption and water consumption is monitored periodically and necessary actions were taken to conserve its usage.

##### **7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?**

The following are the initiatives taken by the college to make the campus eco-friendly

##### **Energy conservation**

Energy conservation measures have been taken by

- Replacing CRT monitors with TFT monitors
- Providing good ventilation in the class rooms and hostel rooms.
- Installing solar water heaters of 8000 litres capacity in the hostel.
- Replacing conventional street light with LED lamps.
- Using sprinklers and drip irrigation for watering the plants and lawn which reduces wastage of water.
- Monitoring the electrical energy consumption of the campus on daily basis to take necessary energy saving measures.

##### **Use of renewable energy**

Solar water heaters have been installed in the hostel. Awareness programme are also being conducted to the students to make the campus eco-friendly.

##### **Water harvesting**

Rain water harvesting points are made in each building to raise the ground water level which also recharges the well. Paver blocks are laid in most of the pedestrian paths which is an additional draining system for rain water.

##### **Check dam construction**

Instead of Check dam constructions, drain pipes and open channels have been installed which terminates at rain water harvesting points.



## **Efforts for Carbon neutrality**

Carbon neutrality is maintained with the 285 trees and 841 plants of the campus. Also our college provides bus facility to minimize the usage of individual vehicle for faculty members and students which supports the low carbon emission. (rate of carbon emission)

## **Plantation**

Tree saplings and plants are planted in and around college premises by NSS, YRC, RRC units and departments every year. A well maintained garden with trees and 2 acres of lawn is set. The planted trees and plants are well watered and maintained with gardeners and housekeeping persons.



## **Hazardous waste management**

No hazardous wastes are generated in the college. The chemicals and materials used in the laboratories are handled with safety measures. A separate sewage treatment plant in the campus collects all waste water, treats it and is used for gardening.

## **E-waste management**

The e-wastes are collected and stored in separate places until they are disposed off to specialized dealers. Some of the obsolete electronic gadgets are used for demonstration purposes. The electronic components of damaged equipment are reused for mini/ major projects.

## **Any other**

- Apart from class rooms and laboratories, dust bins are kept in many places for clean maintenance of the campus.
- In order to reduce the usage of excess paper, one side papers are being reused.
- Paperless office reduce the usage of paper - Internal circulars, online mode of feedback, quiz exam etc.

## **Conclusion**

The above practices makes our campus eco-friendly and provides a good environment for education

## **7.2 INNOVATIONS**

### **7.2.1 Provide details of innovations introduced during the last four years which have created a positive impact on the functioning of the College. (in each topic)**

The college has introduced several innovations during the last four years which has created a positive impact on Academics as well as Administration. Some of them are listed below:

#### **❖ Curricular Aspects**

- Apart from the regular syllabus, Content beyond the syllabus has been included to foster better understanding of the subject.
- Inclusion of project based learning and designing through motivating the students to take up industry based projects, mini projects & interdisciplinary projects.
- CDP (Career Development Programme) has been introduced in the regular curriculum to groom the students for placement and higher studies.
- Employability Enhancement Courses (EEC) has been introduced in the curriculum to improve the employability skills of students.

#### **❖ Teaching- Learning and Evaluation**

- Centre for Learning and Teaching (CLT) has been established with the vision to enhance the students learning experience in the college.
- All the faculty members are mandated to have a teacher's manual with highlights of each session including minute to minute plan, pedagogies used and resources required etc.
- Teaching circle is created by assigning task to a set of students which develops team work culture and creates interest in learning.
- The learning is continuously evaluated through group discussion, class test, assignments, assessment examinations and online quiz etc.
- The questions for assessment examinations and semester examinations are set based on Blooms taxonomy lower order thinking and higher order thinking action verbs.
- Course delivery monitoring is done by HoD/ Dean, Principal, Director, Director of CLT, IQAC and feed back is given to the concerned faculty for the betterment.
- The faculty members and students are exchanged with the international universities/ Industries to augment their knowledge.
- Newspapers are being provided in every class rooms for the students to update the current affairs.
- E-learning is provided through e-books, e-journals, digital library, NPTEL videos, MIT courseware etc. Seminar hours have been scheduled in the regular time table.
- As a part of internal assessment, online quiz are being conducted.

#### **❖ Research and Development**

- R&D cell organizes workshops and seminar for the faculty and students on IPR to promote patents.
- Research and Innovation clubs has been established to encourage the students to take up innovative interdisciplinary projects.
- To initiate research culture among the faculty members and students, college provides research seed money of Rs.1 Lakh.
- Special rewards are being awarded to the faculty for their research publication in National/ International peer reviewed journals.
- Special increment is given to the faculty members on award of Ph.D degree.

#### ❖ Infrastructure

- ICT enabled class rooms to provide effective teaching and learning process.
- Obstacle course for defence training.
- Newspaper table for every class room.
- Established Audio Visual room in the library.
- 24x7 WiFi enabled campus.
- Dispensary inside the campus for immediate medical assistance.

#### ❖ Extension Activities

The college is committed to generate, disseminate, and strive to make the pursuit of excellence in education. In addition to this, the College initiated SNS Social Responsibility Initiative (SNS SRI) to encourage the school and Poly-technique students across the state. The following activities are being conducted through this initiative.

- Sports events for school students.
- Performance Evaluation Test for XII students.
- Project exhibition for school and poly-technique students
- SNS SRI involved in rescuing and relief of people during the flood in Chennai and Cuddalore districts.

#### ❖ Student Support and Progression

- Every year, Youth parliament is formed which comprises student members as a forum to discuss the welfare of the students.
- Model United Nations- An academic simulation of the United Nations where students play the role of delegates from different countries and attempt to solve real world issues with policies and perspectives of their assigned country.
- SNS defence academy was started for the student who aspires to take up their career in defence after completion of their degree.
- Act on Dream club - During Open-Saturday students are given a chance to act on their dream. It involves four main councils viz., team hype, triple helix, scholars on a cause and random acts of kindness.

- Scholarship for students- Various scholarships are provided to the students by the college like No parent scholarship, Single parent scholarship, Academic toppers scholarship, Merit cum means scholarship, Sports scholarships.
- Financial assistance for participating in National level contest like Go-Kart and sponsorship to the students for paper presentation in International forum has been facilitated.
- Training on Vedic Mathematics for the students to improve their numerical skills.
- Students are enrolled in professional societies like ISTE, CSI, IETE, IEE, CIA, CMA etc.
- Best out going student of the department award for meritorious student with excellent academic and non-academic records.
- Health camps like dental, eye, Blood sugar etc., are organized for the students periodically by various clubs of our college.

#### ❖ **Governance, Administration**

- The Internal Quality Assurance Cell of the college conducts regular academic audits, Action plan meeting, Management Review meeting periodically to ensure the quality of the college.
- Empowering the faculty members through participatory management.
- Well planned and effective utilization of budget.
- Instilling leadership quality by dissemination of powers at all levels.
- Women empowerment programmes are conducted.
- Gender sensitization programmes were conducted to create awareness and educate the students about the gender equality.
- To ensure the quality, feedback is collected from the students, faculty members, stakeholders and alumni of our college.

### **7.3 BEST PRACTICES**

#### **7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the College.**

##### **Best Practice: 1**

#### **1. Title of the Practice:**

#### **STUDENT CENTERED TEACHING AND LEARNING PROCESS**

#### **2. Objective of the Practice**

- To excel in teaching and learning process through various teaching methodologies.
- Implementation of teaching pedagogy such as quiz, case study, puzzles, group discussion, model demonstrations, role play, brain storming session etc.
- To encourage faculty member to adopt various teaching and learning modules.

- Implementation of activity based learning, project based learning to actively engage the students in learning process.
- To promote critical thinking and make student globally competitive.

### **3. The Context**

- Students are in the world of opportunities and challenges. The student requires intellectual and technical skills in this competitive world.
- The expectation of industry from potential employee is elevating every year.
- To provide employability skills for diversified students. Students require some additional skills along with the technical knowledge.
- Improving student's knowledge by simple lecturing becomes more complex due to advancement in I.Q level of students.
- Making the student as an active learner rather than passive listener is another challenge during the lecture.
- Adopting different teaching methods with latest technology and happenings is required to maintain the attention of students.
- The college provides periodical training for the faculty members to enhance their teaching abilities and maintain pace with the students.

### **4. The Practice**

- The CLT has been established with the vision to enhance the students learning experience in the college.
- CLT is overall responsible for the recruitment, training, monitoring and appraisal of faculty members.
- CLT periodically conducts FDPs to orient faculty towards student's centered learning.
- All the faculty members are mandated to have a teacher's manual and student's workbook for their course.
- The teacher's manual gives the highlights of each session including minute to minute plan, pedagogies used and resources required etc.
- The prepared lesson plan is given well in advance to the students.
- Each session is initiated with a discussion or questions or story with real time examples before defining the objective.
- During Lecture, questioning by the students is encouraged by giving simple and reliable example related to the topic of discussion.
- Teaching circle is created by assigning task to a set of students which develops team work culture and creates interest in learning.
- The learning is continuously evaluated through group discussion, class test, assignments, assessment examinations and online quiz etc.
- The questions for assessment examinations and semester examinations are set based

on Blooms taxonomy lower order thinking and higher order thinking action verbs.

- The students are given freedom to share their views and ideas during discussion. Freewheeling of ideas is allowed during discussion and they are allowed to build on other's ideas.
- Changes in curriculum are made based on the feedback from members of board of studies, faculty meeting, alumni, industrial experts and students.

### **5. Evidence of Success**

- These activities helped the students to publish research articles in National and international journals.
- Students actively involved themselves in developing innovative mini projects and brought laurels to the college by participating in various competitions.
- Students who have passed out have done extremely well in the corporate world.
- Some students have put their learning into application by starting their own businesses.

### **6. Problems Encountered and Resources Required**

- Time constraint is the greatest problem for implementing Student centric teaching and learning methods.

### **Best Practice: 2**

#### **1. Title of the Practice:**

#### **ACT ON A DREAM (AOD)**

#### **2. Objective of the Practice**

- The main objective of Act On a Dream is to help the students to discover lost dreams and forgotten passions.
- Act on a Dream works as a bridge to narrow the gaps between the college and the real world.
- To encourage the spirit of belonging in the college by the way of conducting club activities and organizing events and fests to bring out the creative side in everyone.
- It specializes in everything from coding to developing and music to MUN (Model United Nations)-ing.

#### **3. The Context**

- AOD comprised of four main councils which concentrate on both technical and non-technical excellence.
  - Team Hype: Extra-curricular and Non-technical activities.
  - Triple Helix: Co-Curricular Technical activities,
  - Scholars on a Cause: Peer-to-peer knowledge imparting sessions.
  - Random Acts of Kindness: Social responsibilities and moral activities.

- These four councils are again subdivided into 29 sub-councils. Each of these sub-councils is provided with class rooms or Laboratories to organize the events and activities as per the schedule.
- Except for dance, music, and sports, the remaining each group are assigned with a particular resource person to handle the classes and to make the session much more interactive.
- Each council has a staff and student coordinator to monitor the sessions. The third Saturday is declared as open Saturday to conduct the activities of AOD.
- Team Hype, which includes extra-curricular and non-technical activities, is a student-body forum. The literary club, a part of Team Hype, serves as a retreat to all the poet-lovers and book-addicts.
- The MUN Club has taken off with the launch of the maiden edition of SNS MUN. The students from the MUN club primarily constitute the SNS MUN SOC. The Communication skill and soft skills club, which is also a part of Team Hype, focuses on improving the communication skill of the students.

#### 4. The practice

AOD (Act on a Dream) is a platform for every budding engineer of SNSCT. Never before among the students, the revolutionary concept of Open-Saturday have been brought into effect that provides a chance to act on the dream. AOD comprises four main councils which emphasizes on both technical and non-technical excellence. Founded in February 2014, AOD is the largest student club at SNS College of Technology with over 3000 active members.

All the clubs are functioning effectively to achieve the objective. The MUN club has seen a strong delegation by actively participating in the several external MUNs like IITBHU MUN, Young Leaders Global Conclave, ANOKHA Leadersmeet'15, SSN MUN, VIT MUN, SIMUN etc. SNS MUN SOC has conducted three events of MUN Conference, SNS MUN in 2015, SNS International MUN during 2016 and 2017 with the participation of Schools, Colleges and Universities across the country to name a few like VIT, PSG Tech, Tamil Nadu Law School, SRM University, Amrita University and The Indian Public School.

#### 5. Evidence of success

Act on a Dream over the past two years has been instrumental in driving students towards their dreams. The success of AOD can be seen in the following clubs.

- **MUN Club:** The number of MUN members has increased from 50 to more than 150 from 2013 to 2017. The achievement of students participated in the MUN conducted by various organization during 2017 are
  1. Shreeram.R.P - High Commendation - MLRIT MUN - UNGA DISEC
  2. Shreeram R.P - Special Mention - SSN MUN – UNGA DISEC
  3. Nivethithan - Honorary Mention - YLGC MUN - UNSC
  4. Nivethithan - High Commendation - CHRIST MUN - UNSC
  5. Nithya - Honorary Mention - YLGC MUN – UNGA DISEC
  6. Nandhinin - Honorary Mention - YLGC MUN – UNGA DISEC

- **Graphics Club, Web Designing:** The members of the club thoroughly understood how to handle graphics and to design websites in a hands-on and practical method.
- **Foreign Language:** French & German was taught to the students by the club members
- **App Development:** Fully functional applications were developed and implemented.
- **Dance Club:** The students of the Dance Club participated in external events held in reputed institutions like NIT-Trichy, Anna university-chennai.
- **Photography Club:** A workshop on Photoshop was organized by the club in collaboration with a Rotaract club. The Club members won Best Short film award in Avantaa film festival 2016 conducted by Sri Krishna College of Technology.
- **Awareness Campaign:** Students of the club collaborated with the students of the Departments and participated in an awareness campaigns or rallies.

## 6. Problems encountered

- **Limited Open Saturdays:** There was a lack of continuity between two consecutive open Saturdays due to Government holidays. Another cause was the internal assessment exams had to be conducted on a few third Saturdays, because of considering the regular courses, it is more practical to complete the internals in one solid week.



# ***Evaluative Report of the Departments***

## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

Name of the Department : **Aeronautical Engineering**

Year of Establishment : **2009**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| Programme level | Programmes offered       | Year of Establishment | Initial Intake | Year of Increase in Intake/ Strength |
|-----------------|--------------------------|-----------------------|----------------|--------------------------------------|
| UG Programme    | Aeronautical Engineering | 2009                  | 60             | -                                    |

### 3. Interdisciplinary courses and departments involved

| S.No | Interdisciplinary Courses                            | Semester | Department                   |
|------|------------------------------------------------------|----------|------------------------------|
| 1    | Technical English – I                                | I        | Science and Humanities       |
| 2    | Engineering Mathematics – I                          |          | Science and Humanities       |
| 3    | Engineering Physics                                  |          | Science and Humanities       |
| 4    | Engineering Chemistry                                |          | Science and Humanities       |
| 5    | Fundamentals of Computing and Programming            |          | Computer Science Engineering |
| 6    | Engineering Drawing                                  |          | Mechanical Engineering       |
| 7    | Fundamentals of Computing and Programming Laboratory |          | Computer Science Engineering |
| 8    | Communication Skills Laboratory                      |          | Science and Humanities       |
| 9    | Chemistry Laboratory                                 |          |                              |
| 10   | Technical English – II                               | II       | Science and Humanities       |
| 11   | Engineering Mathematics - II                         |          | Science and Humanities       |
| 12   | Material Science                                     |          | Science and Humanities       |
| 13   | Environmental Science and Engineering                |          | Science and Humanities       |
| 14   | Basic Electrical and Electronic Engineering          |          | ECE                          |
| 15   | Physics Laboratory                                   |          | Science and Humanities       |
| 16   | Transforms And Partial Differential Equations        | III      | Science and Humanities       |
| 17   | Statistics and Numerical Methods                     | IV       | Science and Humanities       |

#### 4. Annual/ semester/choice based credit system

| S.No | Academic Year | Years / Semester | System followed                  |
|------|---------------|------------------|----------------------------------|
| 1    | 2013 – 14     | II,III & IV Year | Anna University R2008            |
|      |               | I Year           | Autonomous R2014                 |
| 2    | 2014 – 15     | III, & IV years  | Anna University R2008            |
|      |               | I & II Year      | Autonomous R2014                 |
| 3    | 2015 – 16     | IV Year          | Anna University R2008            |
|      |               | II & III Year    | Autonomous R2014                 |
|      |               | I Year           | Choice Based Credit System R2015 |
| 4    | 2016 - 17     | III & IV years   | Autonomous R2014                 |
|      |               | II years         | Choice Based Credit System R2015 |
|      |               | I years          | Choice Based Credit System R2016 |

#### 5. Participation of the department in the courses offered by other departments

| S.No | Courses offered                  | Departments involved |
|------|----------------------------------|----------------------|
| 1    | Engineering Drawing              | B.E (MCT)            |
| 2    | Engineering Practices Laboratory | B.E (CSE,EEE)        |

#### 6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

S: Sanctioned F: Filled

|                             | 2012 - 13 |   | 2013 – 14 |   | 2014 – 15 |   | 2015 - 16 |   | 2016 - 17 |    |
|-----------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|----|
|                             | UG        |   | UG        |   | UG        |   | UG        |   | UG        |    |
|                             | S         | F | S         | F | S         | F | S         | F | S         | F  |
| <b>Professors</b>           | 1         | 1 | 1         | 1 | 1         | 1 | 1         | 1 | 1         | 1  |
| <b>Associate Professors</b> | 0         | 0 | 0         | 0 | 0         | 0 | 0         | 0 | 0         | 0  |
| <b>Assistant Professors</b> | 9         | 9 | 9         | 9 | 9         | 9 | 9         | 9 | 11        | 11 |

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| S.No | Name                 | Qualification | Designation         | Specialization           | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|------|----------------------|---------------|---------------------|--------------------------|----------------------------|---------------------------------------------------|
| 1    | Dr.G.Manikandan      | M.Tech., Ph.D | Professor & Head    | Aero elasticity          | 28                         | -                                                 |
| 2    | Logu S.N             | M.E.          | Assistant Professor | CAD/CAM                  | 5.6                        | -                                                 |
| 3    | Madhan Kumar G       | M.E.          | Assistant Professor | Aeronautical Engineering | 3.6                        | -                                                 |
| 4    | Hariramakrishnan.L   | M.E.          | Assistant Professor | Aeronautical Engineering | 3.6                        | -                                                 |
| 5    | Sasi Kumar M         | M.E.          | Assistant Professor | Aeronautical Engineering | 2.6                        | -                                                 |
| 6    | Rajashree V          | M.TECH        | Assistant Professor | Aeronautical Engineering | 1.6                        | -                                                 |
| 7    | Nehru K              | M.TECH        | Assistant Professor | Aeronautical Engineering | 1.6                        | -                                                 |
| 8    | Anandha Raja A       | M.E.          | Assistant Professor | Avionics                 | 1.6                        | -                                                 |
| 9    | Mr. Deepak Kumar P   | M.TECH        | Assistant Professor | Aeronautical Engineering | 1.6                        | -                                                 |
| 10   | SadhamHussain S      | M.E.          | Assistant Professor | Aeronautical Engineering | 1.6                        | -                                                 |
| 11   | Selva Kumar B        | M.E.          | Assistant Professor | Aeronautical Engineering | 1.6                        | -                                                 |
| 12   | Viswanathravikumar.A | M.TECH        | Assistant Professor | Aeronautical Engineering | 1.6                        | -                                                 |

**8. Percentage of classes taken by temporary faculty – programme-wise information**

NIL– The department has always been adequately staffed and therefore there is no need for temporary faculty.

**9. Programme-wise Student Teacher Ratio**

| Year      | Programme | Total Students Strength | Faculty | Ratio S/T |
|-----------|-----------|-------------------------|---------|-----------|
| 2012 – 13 | UG        | 176                     | 10      | 11.66:1   |
| 2013 – 14 | UG        | 171                     | 10      | 11.66:1   |
| 2014 – 15 | UG        | 146                     | 12      | 9.73:1    |
| 2015 - 16 | UG        | 115                     | 12      | 7.66:1    |
| 2016 - 17 | UG        | 87                      | 12      | 5.8:1     |

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

**S: Sanctioned      F: Filled**

| Support Staff (technical) and administrative staff | 2012 - 13 |   | 2013 - 14 |   | 2014 - 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 2         | 2 | 2         | 2 | 2         | 2 | 2         | 2 | 2         | 2 |

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

| S.No                    | Year | Name of the Faculty | Funding Agency (National / International) | Name of the Project                                                                      | Amount Sanctioned | Status Completed or Ongoing |
|-------------------------|------|---------------------|-------------------------------------------|------------------------------------------------------------------------------------------|-------------------|-----------------------------|
| 1                       | 2016 | G.Madhankumar       | UGC:Minor Research Project                | Experimental investigation of non-reacting coaxial jets: flow and mixing characteristics | 4.3 Lakhs         | Ongoing                     |
| Total Amount Sanctioned |      |                     |                                           |                                                                                          | 4.3 Lakhs         |                             |

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**      NIL

**13. Research facility / centre with**

- state recognition      –Nil
- national recognition      - Nil
- international recognition      –Nil

**14. Publications:**

|                                                                                        | 2012 - 13 | 2013 - 14 | 2014 - 15 | 2015 - 16 | 2016 - 17 |
|----------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| <b>Number of papers published in peer reviewed journals (national / international)</b> | 0         | 1         | 1         | 7         | 1         |
| <b>Monographs</b>                                                                      | -         | -         | -         | -         | -         |
| <b>Chapter(s) in Books</b>                                                             | -         | -         | -         | -         | -         |

|                                                                                                                                                                                                |          |   |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---|---|---|---|
| <b>Editing Books</b>                                                                                                                                                                           | -        | - | - | - | - |
| <b>Books with ISBN numbers with details of publishers</b>                                                                                                                                      | -        | - | - | - | - |
| <b>Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)</b> | -        | - | - | - | - |
| <b>Citation Index [ Range]</b>                                                                                                                                                                 | 1.01-1.4 |   |   |   |   |
| <b>SNIP</b>                                                                                                                                                                                    | -        | - | - | - | - |
| <b>SIR</b>                                                                                                                                                                                     | -        | - | - | - | - |
| <b>Impact Factor [ Range]</b>                                                                                                                                                                  |          |   |   |   |   |
| <b>h – index [ Range]</b>                                                                                                                                                                      | -        | - | - | - | - |

#### 15. Details of patents and income generated

| S.No | Date of filing | Patent No    | Title                                    | Status      |
|------|----------------|--------------|------------------------------------------|-------------|
| 1    | 13.10.2016     | 201641034887 | Circulation enhancement over an Aerofoil | On progress |

#### 16. Areas of consultancy and income generated : Nil

#### 17. Faculty recharging strategies

- Experts from industry and academia are invited to give guest lectures on research oriented, industry oriented, society oriented problems and topics related to emerging areas to motivate the faculty.
- Faculty members are motivated to attend various events. The details of event participation during last 5 years are mentioned below.

| S.No | Events                                                                                                                         | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|------|--------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1    | Workshops/<br>Seminars /Conference /<br>Industry Orientation Programs /<br>Industrial Visits /<br>Faculty Development Programs | -       | -       | 20      | 39      | 17      |

**18. Student projects**

- percentage of students who have done in-house projects including inter-departmental and collaboration with industries / institutes

| Year      | Student Strength | Percentage of Students Project           |                               |
|-----------|------------------|------------------------------------------|-------------------------------|
|           |                  | In-house projects and inter-departmental | Collaboration with industries |
|           | UG               | UG                                       | UG                            |
| 2012 - 13 | 53               | 100                                      | -                             |
| 2013 - 14 | 61               | 100                                      | -                             |
| 2014 - 15 | 56               | 91.07                                    | 4                             |
| 2015 - 16 | 46               | 100                                      | -                             |
| 2016 - 17 | 43               | 100                                      | -                             |

**19. Awards / recognitions received at the national and international level by**

- Faculty - NIL
- Doctoral / post-doctoral fellows : NIL
- Students

| S.No               | Name of the Students   | Prize / University Rank            | Event Name                            |
|--------------------|------------------------|------------------------------------|---------------------------------------|
| <b>2012 - 2013</b> |                        |                                    |                                       |
| 1                  | Anusindhiya.K          | 27                                 | Anna University Rank                  |
| <b>2013- 2014</b>  |                        |                                    |                                       |
| 2                  | Bibin Baby             | 4                                  | Anna University Rank                  |
| 3                  | Harithra.M             | 7                                  | Anna University Rank                  |
| 4                  | Hebzibha.I             | 33                                 | Anna University Rank                  |
| <b>2014 - 2015</b> |                        |                                    |                                       |
| 5.                 | Sheik Mohamed Jalwathi | Second Prize-Design National Award | Indian Society of Technical Education |
| 6                  | Vigneshwar.V.S         | Second Prize-Design National Award | Indian Society of Technical Education |
| <b>2015 - 2016</b> |                        |                                    |                                       |
| 7                  | Ilamathi.P             | First Prize in Connexion           | Madras Institute of Technology        |
| 8                  | Gayathri.C             | First Prize in Connexion           | Madras Institute of Technology        |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

| S.NO               | Event<br>(Seminars/<br>Conferences/<br>Workshops) | Title                                                        | Duration | Sources<br>of funds | Participants |
|--------------------|---------------------------------------------------|--------------------------------------------------------------|----------|---------------------|--------------|
| <b>2013-2014</b>   |                                                   |                                                              |          |                     |              |
| 1                  | National level conference                         | Aerospace research and technology                            | 1 day    | SNSCT               | 60           |
| 2                  | National level Symposium                          | AVIONZ                                                       | 1 day    | SNSCT               | 120          |
| <b>2015 - 2016</b> |                                                   |                                                              |          |                     |              |
| 3                  | Workshop                                          | Introduction to CFD                                          | 1 day    | SNSCT               | 102          |
|                    |                                                   | Rubber powered micro aerial vehicle                          | 1 day    | SNSCT               | 20           |
|                    |                                                   | Recent Trends in Unmanned Aerial Vehicles                    | 1 day    | SNSCT               | 40           |
|                    |                                                   | Performance of Aircraft Structures using CFD                 | 1 day    | SNSCT               | 86           |
|                    |                                                   | UAV design and autopilot programming (fixed wing)            | 3 day    | SNSCT               | 60           |
| 4                  | Seminar                                           | Light compact aircraft system development                    | 1 day    | SNSCT               | 115          |
|                    |                                                   | Career opportunities in mechanical CADD                      | 1 day    | SNSCT               | 43           |
|                    |                                                   | Student Pilot License                                        | 1 day    | SNSCT               | 69           |
|                    |                                                   | Non-Destructive Testing                                      | 1 day    | SNSCT               | 43           |
| 5                  | National level conference                         | Recent Trends in Unmanned Aerial Vehicles                    | 1 day    | SNSCT               | 40           |
| 6                  | International Conference                          | International Conference on Mechanical and Building Sciences | 2 day    | SNSCT               | 24           |
| <b>2016 - 2017</b> |                                                   |                                                              |          |                     |              |
| 7                  | Workshop                                          | Tool and Die design using Reverse Engineering                | 1 day    | SNSCT               | 87           |



**21. Student profile course-wise:**

| Year      | Name of the Course | Application Received | Selected |        | Pass percentage |        |
|-----------|--------------------|----------------------|----------|--------|-----------------|--------|
|           |                    |                      | Male     | Female | Male            | Female |
| UG        |                    |                      |          |        |                 |        |
| 2009-2013 | B.E. Aero          | NA                   | 31/46    | 7/7    | 67.39           | 100    |
| 2010-2014 | B.E. Aero          |                      | 19/51    | 10/10  | 37.2            | 100    |
| 2011-2015 | B.E. Aero          |                      | 17/46    | 4/10   | 36.9            | 40     |
| 2012-2016 | B.E. Aero          |                      | 17/39    | 7/7    | 43.5            | 100    |

**22. Diversity of Students**

| Name of the Course | Batch   | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| <b>B.E. Aero</b>   | 2009-13 | -                              | 100%                         | 0                               | -                                  |
|                    | 2010-14 | -                              | 88.52%                       | 11.47%                          | -                                  |
|                    | 2011-15 | -                              | 83.92%                       | 16.07%                          | -                                  |
|                    | 2012-16 | -                              | 95.62%                       | 4.34%                           | -                                  |
|                    | 2016-17 | -                              | 100%                         | 0                               | -                                  |

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

| S.No | Year of Passed out | Name of the Competitive Exam | No. of students cleared |         |
|------|--------------------|------------------------------|-------------------------|---------|
|      |                    |                              | Appeared                | Cleared |
| 1    | 2013               | GATE                         | 7                       | 0       |
|      |                    | CSIR-UGC                     | 1                       | 0       |
| 2    | 2014               | GATE                         | 7                       | 1       |
| 3    | 2015               | GATE                         | 8                       | 0       |
|      |                    | INDIAN AIR FORCE             | 2                       | -       |
|      |                    | NDA                          | 2                       | -       |
| 4    | 2016               | GATE                         | 5                       | -       |
|      |                    | UES-NAVY                     | 5                       | 2       |

**24. Student progression**

| Student Progression           | Percentage against enrolled |       |       |       |
|-------------------------------|-----------------------------|-------|-------|-------|
|                               | 2013                        | 2014  | 2015  | 2016  |
| UG to PG                      | -                           | 1.78% | 2.17% | -     |
| Employed Campus selection     | 50.79                       | 59.70 | 67.31 | 78.85 |
| Other than campus recruitment | -                           | -     | 2.17% | -     |
| Entrepreneurs                 | 1.63%                       | 1.63% | 0     | -     |

**25. Diversity of staff**

| UG                                        |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | 60      | 88.8    | 91.6    | 58.33   | 58.3    |
| from other universities within the State  | 30      | 11.1    | 16.6    | 33.3    | 33.3    |
| from other universities from other States | 10      | -       | -       | 8.3     | 8.3     |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

Nil

**27. Present details about infrastructural facilities****a) Library**

Total No. of books available in department library is 876 and it has project reports of all the students.

| S.No | Academic Year | Book Titles (in nos.) | Book Volumes (in nos.) |
|------|---------------|-----------------------|------------------------|
| 1    | 2012 – 13     | 191                   | -                      |
| 2    | 2013 – 14     | 191                   | -                      |
| 3    | 2014 – 15     | 191                   | -                      |
| 4    | 2015 – 16     | 191                   | -                      |
| 5    | 2016 - 17     | 191                   | -                      |

**b) Internet facilities for staff and students**

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in all labs and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel.

**c) Total number of class rooms : 3**

| S.No | Class Room No. | Description of Room<br>(in Sq.m) | Shared /<br>Exclusive | Details of Facility<br>Available |
|------|----------------|----------------------------------|-----------------------|----------------------------------|
| 1    | B308           | 90                               | Exclusive             | Black board,<br>Tables, Chair    |
| 2    | B309           | 90                               | Exclusive             | Black board,<br>Tables, Chair    |
| 3    | B310           | 90                               | Exclusive             | Black board,<br>Tables, Chair    |

**d) Class rooms with ICT facility:1**

| S.No | Class Room No. | Description of Room<br>(in Sq.m) | Shared /<br>Exclusive | Details of Facility<br>Available             |
|------|----------------|----------------------------------|-----------------------|----------------------------------------------|
| 1    | B310           | 90                               | Exclusive             | LCD Projector, Black<br>board, Tables, Chair |

**e) Students' laboratories :**

| S.No | Lab No.              | Area in Sq.m | Name of the Lab                                                   |
|------|----------------------|--------------|-------------------------------------------------------------------|
| 1    | D 002<br>D 003       | 153.8        | Aero Engine Laboratory & Aircraft Structures<br>Repair Laboratory |
| 2    | D 202<br>D 203       | 207.26       | CAD/CAM Laboratory                                                |
| 3    | D 213                | 92.87        | Aircraft Systems Laboratory & Aircraft<br>Structures I Laboratory |
| 4    | D 215                | 92.87        | Aircraft Structures - II Laboratory                               |
| 5    | D016<br>D017<br>D018 | 89.18        | Aerodynamics Laboratory &<br>Propulsion Laboratory                |

**f) Research laboratories : Nil**

**28. Number of students of the department getting financial assistance from College.**

Total Number of Students : 60

Total Amount : 170000

| Academic<br>Year | Government        |          | Management           |        |
|------------------|-------------------|----------|----------------------|--------|
|                  | Student benefited | Amount   | Student<br>benefited | Amount |
| 2012 - 13        | 26                | 1,64,475 | -                    | -      |
| 2013 - 14        | 17                | 1,84,950 | 1                    | 10,000 |
| 2014 - 15        | 12                | 82,950   | 3                    | 40,000 |
| 2015 - 16        | 5                 | 131225   | 2                    | 15,000 |
| 2016 - 17        | -                 | -        | 3                    | 105000 |

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. Nil
30. Does the department obtain feedback from
- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
- The department to have preliminary discussion on syllabus revision. The feedbacks on curriculum and syllabi are collected by our alumni and parents of the alumni. The feedbacks from industry experts are also collected. The collected feedbacks are incorporated in syllabus modification by internal experts and evaluated by external experts in the BOS.
  - Faculty also gives the department a regular feedback on the students' involvement in the class discussions and activities that form a part of the learning mechanism. If it is seen that there are students who need special attention in academics then we have remedial coaching given to them by the concerned teachers.
  - Faculty are also asked to report any need whatsoever that is felt by them in order to make the course more effective and value enhancing.
- b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
- Feedback obtained from the students regarding staff, curriculum and teaching-learning methods. Also, special classes arranged for those students who are academically backward. The following are the feedbacks collected from students.
  - Class committee meeting feedback
  - Addressing HoD by the students
  - Class/Lab/Tutorial monitoring of HoD feedback and action taken
  - Class/Lab/Tutorial monitoring of Teaching Coordinator feedback and action taken
  - Students End semester Evaluation form
- c. Alumni and employers on the programmes and what is the response of the department to the same?
- The department recognizes the distinguished alumni by associating them in the Board of studies while framing and updating the syllabi. The department also recognizes the distinguished alumni by inviting them to give special lectures and seminars to the students. The department requests the employers to offer financial assistance for conducting certificate programmes, seminars, conferences, workshops, and special lectures for the UG students.

**31. List the distinguished alumni of the department (maximum 10)**

| S.No | Name of the Alumni | Batch | Current Position    | Company                                     |
|------|--------------------|-------|---------------------|---------------------------------------------|
| 1    | Ashwinkumar.S      | 2009  | Design Engineer     | Ravilla Aerospace Ind. Pvt. Ltd, Coimbatore |
| 2    | AbinSing.R         | 2009  | Design Engineer     | Ravilla Aerospace Ind. Pvt. Ltd, Coimbatore |
| 3    | ArunPrasath.R.     | 2009  | Software Engineer   | Tech Mahindra, Chennai                      |
| 4    | AjithSundar.T      | 2010  | Cad Designer        | Max CAD, Coimbatore                         |
| 5    | Kabriyil.T.        | 2010  | Technical Engineer  | LGB                                         |
| 6    | Prisi Kumar        | 2010  | Software Programmer | Infosys                                     |
| 7    | Gunaseelan.P       | 2010  | Engineer            | Sriram steel Industry, Trichy               |
| 8    | Divya.M            | 2011  | Graduate Trainee    | NAL, Bangalore                              |
| 9    | Ashwin.G           | 2011  | BPO                 | Sutherland, Chennai                         |
| 10   | Nivetha.M          | 2012  | Software Engineer   | Tech Mahindra, Chennai                      |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| S. No       | Name of Event | Title                                                       | Date        | External Experts                                                                                            | No. of Beneficiary |
|-------------|---------------|-------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------|--------------------|
| 2014 - 2015 |               |                                                             |             |                                                                                                             |                    |
| 1           | Guest Lecture | Some considerations in Aircraft design                      | 10.07.2014  | Dr. S.P.Viswanathan Empereal KGDS Renewable Energy Private Limited, Coimbatore                              | 146                |
|             |               | Application of CAD/CAM/CAE                                  | 31.07.2014  | Mr.V.Alaguraj, Founder/Director, Mach Engineers, Chennai                                                    | 146                |
|             |               | Future Opportunities for Aero Domains in Design & Analysis  | 12.09.2014  | Mr.Ramki.M , Technical Architect , Xcelnow Solutions , Bangalore.                                           | 146                |
|             |               | Computational Fluid Dynamics                                | 09.10.2014  | Mr. RadheeshDhanasegaran, CFD Analyst, Barola Aero Sports, and Chennai.                                     | 146                |
|             |               | Orbital Mechanics                                           | 07.11.2014  | Dr. A.P.Haran , Dean of Mechanical Sciences ,Park college of Engineering & Technology, Coimbatore.          | 146                |
|             |               | High temperature instrumentation for aerospace applications | 07.04.2014  | Mr.S.V.SubbaRao, Head, Heat transfer and combustion laboratories, Propulsion group VSSC ,Thiruvananthapuram | 146                |
| 2015 – 2016 |               |                                                             |             |                                                                                                             |                    |
| 2           | Guest Lecture | Welding safety and hazard management                        | 27.07. 2015 | Mr. SaiGanesh ,Fire consultant AAI, Coimbatore                                                              | 46                 |
|             |               | Propulsion                                                  | 31.07.2015  | Dr.J.Bruce Ralphine Rose, Assistant Professor,                                                              | 43                 |

|                    |               |                                              |            |                                                                                                                                        |    |
|--------------------|---------------|----------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------|----|
|                    |               |                                              |            | Department of Mechanical Engg., Regional center Thirunelveli, Anna University, Chennai.                                                |    |
|                    |               | Industrial Aerodynamics                      | 31.072015  | Dr.J.Bruce Ralphine Rose, Assistant Professor, Department of Mechanical Engg., Regional center Thirunelveli, Anna University, Chennai. | 46 |
|                    |               | Theory of elasticity                         | 31.07 2015 | Mr.T.Diwarhar, Manager, Stress analysis, HAL                                                                                           | 43 |
|                    |               | Career after Engineering                     | 11.08 2015 | Mr.Santhoshkumar.M Pursuing M.Tech Aerospace Technology at Madras Institute of Technology.                                             | 46 |
|                    |               | Aircraft General Engineering and Maintenance | 26.02.2016 | Mr. A. SabikNainar, Ex- Indian Air Force, Sergeant (Aircraft Ground Engineer), Erode                                                   | 43 |
| <b>2016 - 2017</b> |               |                                              |            |                                                                                                                                        |    |
| 3                  | Guest Lecture | Application of Strength of Materials         | 27.07.2016 | Mr.J.Nagarjan, PSG Institute of Technology, Coimbatore                                                                                 | 15 |
|                    |               | New age Materials                            | 15.10.2016 | Dr. R.Aravind Singh, & Dr. S.Jayalakshmi Bannariamman Institute of Technology, Sathy                                                   | 80 |

**33. List the teaching methods adopted by the faculty for different programmes.**

| Innovative teaching method adopted | Evaluation method                                                                                                                                                                                                  | Outcome                                                                                                                                                                                                                                                                    |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICT                                | <ul style="list-style-type: none"> <li>Feedback from students on curriculum, teacher and teaching methodology</li> <li>Feedback from the faculty on performance of the students and other stack holders</li> </ul> | <ul style="list-style-type: none"> <li>Improvements are visible in terms of student participation in inter-collegiate competitions that include paper presentation, project presentation, participation in National and international conferences and symposia.</li> </ul> |
| Case Study                         |                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                            |
| Model preparation                  |                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                            |
| Standard Course material           |                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                            |
| Hands on exposure                  |                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                            |

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

Students are assessed timely based on their performance in various student assessment methods like, Internal assessments: periodic internal assessments (IA) are conducted in theory as well as practical.

**35. Highlight the participation of students and faculty in extension activities.**

| S.No | Date       | Name of the Event                                         | Resource Person& Address                                                                               | Target Audience                  |
|------|------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------|
| 1    | 13/09/2014 | Social Awareness on "Safety Precautions on Road and Home" | Dr.K.Sundararaj, Professor and Head, Department of Aeronautical Engineering, SNS College of Technology | 146 Students (II, III & IV Aero) |

| 2015-2016 |            |                                                                |                                                                                                    |                                  |
|-----------|------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|
| 2         | 21/08/2015 | Social Awareness Programme titled “Accident Awareness”         | Dr.R. Karthikeyan, M.B.B.S, M.S. Laparoscopic Surgeon/Medical Director, Kongunad Hospital (P) Ltd. | General Public                   |
| 3         | 19/02/2016 | Free Medical Checkup for Staffs                                | Dr.Karthikeyan, Kurinji Hospital, Coimbatore                                                       | 100 Staffs                       |
| 4         | 20/02/2016 | Social Awareness Programme on “Organ Donation”                 | Dr.R.Karthikeyan, Kurinji Hospital, Coimbatore                                                     | 115 Students (II, III & IV Aero) |
| 2016-2017 |            |                                                                |                                                                                                    |                                  |
| 5         | 10/07/2016 | Social Awareness Program on “World Population Day”             | Inspector, Kovilpalayam police station, Kovilpalayam, Coimbatore.                                  | 85 Students (II, III & IV Aero)  |
| 6         | 12/07/2016 | Social Awareness Program on “Eye camp”                         | Lenzovision Optical and Eye clinic, Coimbatore.                                                    | All Staffs and Students.         |
| 7         | 15/07/2016 | Social Awareness Program on “Cybercrime”                       | Inspector, Cybercrime department, Coimbatore.                                                      | 285 Students (Aero & MCT)        |
| 8         | 22/07/2016 | Social Awareness Program on “Free Eye and dental checkup camp” | Vasan Eye Care, Coimbatore.                                                                        | All Staffs and Students.         |
| 9         | 30/07/2016 | Social Awareness program on “Fire and Safety”                  | Mr. S. Prakash, Corporate Trainer, Usha Fire and Safety Pvt. Ltd., Coimbatore.                     | 285 Students (Aero & MCT)        |

**36. Give details of “beyond syllabus scholarly activities” of the department.**

| Course name (Code)                                     | Lecture method incorporated | Other teaching methods | Other learning activities (inside the class & outside the class) |
|--------------------------------------------------------|-----------------------------|------------------------|------------------------------------------------------------------|
| Aero Engine Maintenance and Repair                     | Case study                  | Demonstrative models   | Industrial training, In plant training and Industrial visit.     |
| Airframe Repair and Maintenance                        |                             |                        |                                                                  |
| Helicopter Maintenance                                 |                             |                        |                                                                  |
| Aircraft General Engineering Maintenance and Practices | Role Play                   | On stage performance   | Industrial training and In plant training.                       |
| Fluid Mechanics and Machinery                          |                             |                        |                                                                  |
| Strength of Materials                                  | Case Study                  | Role Play              | Industrial training and In plant training.                       |
| Manufacturing Technology                               |                             |                        |                                                                  |
| Elements of Aeronautics                                | Model                       | Case study             | NPTEL Course                                                     |

|                                                                     |              |          |                       |
|---------------------------------------------------------------------|--------------|----------|-----------------------|
|                                                                     | preparation  |          |                       |
| Aerodynamics, Aircraft Structures, Propulsion, Rockets and Missiles | NPTEL Course | Workshop | Seminar/Guest Lecture |

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Nil

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

|                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;"><b>STRENGTHS</b></p> <ul style="list-style-type: none"> <li>Curriculum is designed based on the industrial standard and industrial requirement to meet out Graduate attributes defined by NBA. Choice based credit system and Outcome based education system are followed.</li> <li>Industry oriented electives offered and the courses were handled by industrial experts.</li> </ul> | <p style="text-align: center;"><b>WEAKNESSES</b></p> <ul style="list-style-type: none"> <li>Lack of communication skill to the students.</li> <li>Effect on culture of students of nearby rural area.</li> <li>Less admission in courses of UG programme.</li> </ul>                                            |
| <p style="text-align: center;"><b>OPPORTUNITIES</b></p> <ul style="list-style-type: none"> <li>The flexibility to incorporate local needs into educational objectives.</li> <li>Sufficient funding.</li> <li>Institutional support for research and development.</li> </ul>                                                                                                                                           | <p style="text-align: center;"><b>CHALLENGES</b></p> <ul style="list-style-type: none"> <li>providing career advice to students</li> <li>Effectively teaching a heterogeneous group of students</li> <li>The department is always at a competitive edge with other departments at performance level.</li> </ul> |

**39. Future plans of the department**

- Strengthening teaching and learning process to impart fundamental knowledge and skill to get through in examinations like IES, GRE, GATE, GMAT etc.
- Establishing contact with companies and engaged in consultation work.
- Industrial exposure and experience to faculty members.
- Contacting with foreign universities and organizations for getting collaborative research.



## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

Name of the Department : **Automobile Engineering**

Year of Establishment : **2013**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| Programme level | Programmes offered | Year of Establishment | Initial Intake | Year of Increase in Intake/ Strength |
|-----------------|--------------------|-----------------------|----------------|--------------------------------------|
| UG Programme    | B.E                | 2013                  | 60             | -                                    |

### 3. Interdisciplinary courses and departments involved

| S.No | Interdisciplinary Courses                            | Semester | Department                             |
|------|------------------------------------------------------|----------|----------------------------------------|
| 1.   | Technical English – I                                | I        | Science and Humanities                 |
| 2.   | Engineering Mathematics – I                          |          | Science and Humanities                 |
| 3.   | Engineering Physics                                  |          | Science and Humanities                 |
| 4.   | Engineering Chemistry                                |          | Science and Humanities                 |
| 5.   | Fundamental of Computing and Programming             |          | Computer Science & Engineering         |
| 6.   | Engineering Drawing                                  |          | Mechanical Engineering                 |
| 7.   | Fundamentals of Computing and Programming Laboratory |          | Computer Science & Engineering         |
| 8.   | Communication Skills Laboratory                      |          | Science and Humanities                 |
| 9.   | Chemistry Laboratory                                 |          | Science and Humanities                 |
| 10.  | Technical English II                                 | II       | Science and Humanities                 |
| 11.  | Engineering Mathematics II                           |          | Science and Humanities                 |
| 12.  | Material Science                                     |          | Science and Humanities                 |
| 13.  | Environmental Science and Engineering                |          | Science and Humanities                 |
| 14.  | Engineering Mechanics                                |          | Mechanical Engineering                 |
| 15.  | Basic of Electrical and Electronics Engineering      |          | Electrical and Electronics Engineering |
| 16.  | Physics Laboratory                                   |          | Science and Humanities                 |
| 17.  | Computer Aided Drafting Laboratory                   |          | Mechanical Engineering                 |
| 18.  | Engineering Practices Laboratory                     |          | Mechanical Engineering                 |
| 19.  | Transforms and Partial Differential Equations        | III      | Science and Humanities                 |
| 20.  | Strength of Materials                                |          | Mechanical Engineering                 |
| 21.  | Engineering Thermodynamics                           |          | Mechanical Engineering                 |

| S.No | Interdisciplinary Courses                       | Semester | Department                            |
|------|-------------------------------------------------|----------|---------------------------------------|
| 22.  | Fluid Mechanics & Machinery                     | III      | Mechanical Engineering                |
| 23.  | Career Development Programme –I (Soft Skills)   |          | Skill Carrier & Development           |
| 24.  | Computer Aided Machine Drawing Laboratory       |          | Mechanical Engineering                |
| 25.  | Statistics and Numerical Methods                | IV       | Science and Humanities                |
| 26.  | Mechanics of Machines                           |          | Aeronautical Engineering              |
| 27.  | Engineering Metrology & Measurements            |          | Mechanical Engineering                |
| 28.  | Career Development Programme – II (Soft Skills) |          | Skill Carrier & Development           |
| 29.  | Design of Machine Elements                      | V        | Mechanical Engineering                |
| 30.  | Electronics and Micro Processor                 |          | Electronics communication Engineering |
| 31.  | Career Development Programme – III              |          | Skill Carrier & Development           |
| 32.  | Principles of Management                        | VI       | MBA                                   |
| 33.  | Operations Research                             |          | Mechanical Engineering                |
| 34.  | Career Development Programme – IV               |          | Skill Carrier & Development           |
| 35.  | Total Quality Management                        | VII      | Mechanical Engineering                |

#### 4. Annual/ semester/choice based credit system

| S.No | Academic Year | Years / Semester      | System followed                  |
|------|---------------|-----------------------|----------------------------------|
| 1    | 2013 – 14     | All years & Semesters | Semester System R2013            |
| 2    | 2014 – 15     | All years & Semesters | Semester System R2013            |
| 3    | 2015 – 16     | II, III, & IV years   | Semester System R2013            |
|      |               | First year            | Choice Based Credit System R2015 |
| 4    | 2016 - 17     | III & IV years        | Semester System R2013            |
|      |               | I years               | Choice Based Credit System R2016 |
|      |               | II years              | Choice Based Credit System R2015 |

**5. Participation of the department in the courses offered by other departments**

| S.No | Courses offered                        | Departments involved |
|------|----------------------------------------|----------------------|
| 1    | Engineering Drawing                    | B.E (MCT)            |
| 2    | Engineering Graphics                   | B.E (IT & EIE)       |
| 3    | Basic Civil and Mechanical Engineering | B.E (IT & EIE)       |
| 4    | Computer Aided Drafting Laboratory     | B.E (MCT)            |
| 5    | Engineering Practices Laboratory       | B.E (IT, MCT& EIE)   |

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

|                             | 2014 – 15 |   | 2015 - 16 |   | 2016 - 17 |    |
|-----------------------------|-----------|---|-----------|---|-----------|----|
|                             | UG        |   | UG        |   | UG        |    |
|                             | S         | F | S         | F | S         | F  |
| <b>Professors</b>           | 1         | 1 | 1         | 1 | 1         | 1  |
| <b>Associate Professors</b> | -         | - | -         | - | -         | -  |
| <b>Assistant Professors</b> | 3         | 3 | 7         | 7 | 11        | 11 |

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| S.No | Name                    | Qualification | Designation         | Specialization                              | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|------|-------------------------|---------------|---------------------|---------------------------------------------|----------------------------|---------------------------------------------------|
| 1    | Dr. M.Shanmugaraja      | M.E., Ph.D.,  | Professor and Head  | Mechanical Engineering                      | 14.9 Years                 | Nil                                               |
| 2    | Mr. P.Shanmuga sundaram | B.E., M.E.,   | Assistant Professor | Manufacturing Engineering                   | 25.2 Years                 | Nil                                               |
| 3    | Mr. D.Rajeshkumar       | B.E., M.E.,   | Assistant Professor | Computer Integrated Manufacturing           | 3 Years 8 Months           | Nil                                               |
| 4    | Mr. A.Dineshkumar       | B.E., M.E.,   | Assistant Professor | CAD/CAM                                     | 3 Years 6 Months           | Nil                                               |
| 5    | Mr. S.Sathiskumar       | B.E., M.E.,   | Assistant Professor | Engineering Design                          | 2 Years 9 Months           | Nil                                               |
| 6    | Mr. T.Mahendran         | B.E., M.E.,   | Assistant Professor | Virtual Prototyping & Digital Manufacturing | 2 Years 5 Months           | Nil                                               |
| 7    | Mr. D.Naveenraj         | B.E., M.E.,   | Assistant Professor | Manufacturing Engineering                   | 1.9 Years                  | Nil                                               |
| 8    | Mr. N.Kumaresan         | B.E., M.E.,   | Assistant Professor | Automotive Engineering                      | 1 Year 8 Months            | Nil                                               |

|    |                      |                |                     |                                   |          |     |
|----|----------------------|----------------|---------------------|-----------------------------------|----------|-----|
| 9  | Mr. K.S.KarthiVinith | B.E., M.E.,    | Assistant Professor | Automotive Engineering            | 9 Months | Nil |
| 10 | Mr. S.Vasanthaseelan | B.E., M.Tech., | Assistant Professor | Automobile Engineering            | 9 Months | Nil |
| 11 | Mr.S.Ragavan         | B.E., M.E.,    | Assistant Professor | Engineering Design                | 7 Months | Nil |
| 12 | Mr.M.Umashanker      | B.E., M.E.,    | Assistant Professor | Computer Integrated Manufacturing | 7 Months | Nil |

**8. Percentage of classes taken by temporary faculty – programme-wise information**

NIL– The department has always been adequately staffed and therefore there is no need for temporary faculty.

**9. Programme-wise Student Teacher Ratio**

| Year      | Programme | Total Students Strength | Faculty | Ratio S/T |
|-----------|-----------|-------------------------|---------|-----------|
| 2014 – 15 | UG        | 72                      | 4       | 18:1      |
| 2015 - 16 | UG        | 142                     | 8       | 17.7:1    |
| 2016 - 17 | UG        | 209                     | 12      | 17.4:1    |

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**      **S: Sanctioned**      **F: Filled**

| Support Staff (technical) and administrative staff | 2014 – 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F |
|                                                    | 1         | 1 | 1         | 1 | 2         | 2 |

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. NIL**

| S.No | Year | Name of the Faculty | Funding Agency (National / International) | Name of the Project | Amount Sanctioned | Status Completed or Ongoing |
|------|------|---------------------|-------------------------------------------|---------------------|-------------------|-----------------------------|
| NIL  |      |                     |                                           |                     |                   |                             |

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

NIL

**13. Research facility / centre with**

- state recognition –Nil

- **national recognition** - Nil
- **international recognition** –Nil

**14. Publications:**

|                                                                                                                                                                                                | 2012 - 13 | 2013 - 14 | 2014 - 15 | 2015 - 16 | 2016 - 17 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| <b>Number of papers published in peer reviewed journals (national / international)</b>                                                                                                         | NA        | 1         | 1         | 1         | 1         |
| <b>Monographs</b>                                                                                                                                                                              | -         | -         | -         | -         | -         |
| <b>Chapter(s) in Books</b>                                                                                                                                                                     | -         | -         | -         | -         | -         |
| <b>Editing Books</b>                                                                                                                                                                           | -         | -         | -         | -         | -         |
| <b>Books with ISBN numbers with details of publishers</b>                                                                                                                                      | -         | -         | -         | -         | -         |
| <b>number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)</b> | -         | 1-Scopus  | -         | -         | 1-Scopus  |
| <b>Citation Index [ Range]</b>                                                                                                                                                                 | NIL       |           |           |           |           |
| <b>SNIP</b>                                                                                                                                                                                    | -         | 0.609     | -         | -         | -         |
| <b>SIR</b>                                                                                                                                                                                     | -         | 0.136     | -         | -         | -         |
| <b>Impact Factor [ Range]</b>                                                                                                                                                                  | 0.287     |           |           |           |           |
| <b>h – index [ Range]</b>                                                                                                                                                                      | -         | -         | -         | -         | -         |

**15. Details of patents and income generated**

| Sl. No | Date of filing | Patent No | Title | Status |
|--------|----------------|-----------|-------|--------|
| NIL    |                |           |       |        |

**16. Areas of consultancy and income generated**

| S.No | Year | Name of the faculty | Area of Consultancy | Organization | Income |
|------|------|---------------------|---------------------|--------------|--------|
| NIL  |      |                     |                     |              |        |

### 17. Faculty recharging strategies

- Experts from industry and academia are invited to give guest lectures on research oriented, industry oriented, society oriented problems and topics related to emerging areas to motivate the faculty.
- Induction programmes for new faculty members are conducted regularly.
- Incentives are provided regularly based on overall performance
- Insurance & Medical facilities were provided to the faculty members.
- Appreciation were given to our faculty members for any co-curricular achievements
- Faculty members are encouraged to attend Workshops / Conferences / Seminar / FDTP etc. as participants
- Achievement awards for faculties were given during Annual College day celebrations
- Faculty members are motivated to attend various events. The details of event participation during last 5 years are mentioned below.

| S.No | Events                                                                                                             | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|------|--------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1    | Workshops/ Seminars /Conference / Industry Orientation Programs / Industrial Visits / Faculty Development Programs | NA      | NA      | 5       | 8       | 12      |

### 18. Student projects

- percentage of students who have done in-house projects including inter-departmental and collaboration with industries / institutes

| Year      | Student Strength | Percentage of Students Project           |                               |
|-----------|------------------|------------------------------------------|-------------------------------|
|           |                  | In-house projects and inter-departmental | Collaboration with industries |
|           | UG               | UG                                       | UG                            |
| 2012 - 13 | NA               | NA                                       | NA                            |
| 2013 - 14 | NA               | NA                                       | NA                            |
| 2014 - 15 | NA               | NA                                       | NA                            |
| 2015 - 16 | NA               | NA                                       | NA                            |
| 2016 - 17 | 67               | 77.78%                                   | 22%                           |

### 19. Awards / recognitions received at the national and international level by

- Faculty - NIL
- Doctoral / post doctoral fellows - NIL
- Students - NIL

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

| S.NO               | Event (Seminars/ Conferences/Workshops) | Title                                     | Duration | Sources of funds | Participants |
|--------------------|-----------------------------------------|-------------------------------------------|----------|------------------|--------------|
| <b>2016 - 2017</b> |                                         |                                           |          |                  |              |
| 1                  | Workshop                                | Hands on training on two and four wheeler | 1 day    | SNSCT            | 64           |
| 2                  | Workshop                                | Diesel engine technology                  | 1 day    | SNSCT            | 108          |

**21. Student profile course-wise:**

| Year    | Name of the Course | Application Received | Selected |        | Pass percentage |        |
|---------|--------------------|----------------------|----------|--------|-----------------|--------|
|         |                    |                      | Male     | Female | Male            | Female |
| UG      |                    |                      |          |        |                 |        |
| 2013-17 | B.E AUTO           | NA                   | 72       | Nil    | NA              | NA     |
| 2014-18 | B.E AUTO           |                      | 72       | Nil    | NA              | NA     |
| 2015-19 | B.E AUTO           |                      | 70       | Nil    | NA              | NA     |
| 2016-20 | B.E AUTO           |                      | 51       | 1      | NA              | NA     |

**22. Diversity of Students**

| Name of the Course | Batch   | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| <b>B.EAUTO</b>     | 2012-16 | -                              | -                            | -                               | -                                  |
|                    | 2013-17 | -                              | 98.61%                       | 1.39%                           | -                                  |
|                    | 2014-18 | -                              | 100%                         | -                               | -                                  |
|                    | 2015-19 | -                              | 98.57%                       | 1.42%                           | -                                  |
|                    | 2016-20 | -                              | 98.03%                       | 1.96%                           | -                                  |

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

| S.No | Year of Passed out | Name of the Competitive Exam | No. of students cleared |         |
|------|--------------------|------------------------------|-------------------------|---------|
|      |                    |                              | Appeared                | Cleared |
| NIL  |                    |                              |                         |         |

**24. Student progression**

| Student Progression             | Percentage against enrolled |      |      |      |
|---------------------------------|-----------------------------|------|------|------|
|                                 | 2013                        | 2014 | 2015 | 2016 |
| UG to PG                        | NA                          | NA   | NA   | NA   |
| PG to Ph.D.                     | NA                          | NA   | NA   | NA   |
| Employed                        | NA                          | NA   | NA   | NA   |
| • Campus selection              |                             |      |      |      |
| • Other than campus recruitment | NA                          | NA   | NA   | NA   |
| Entrepreneurs                   | NA                          | NA   | NA   | NA   |

**25. Diversity of staff**

| UG                                        |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | -       | -       | 100     | 75%     | 75%     |
| from other universities within the State  | -       | -       | -       | 25%     | 25%     |
| from other universities from other States | -       | -       | -       | -       | -       |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

| S.No | Year of Award | No. of Ph.D. |
|------|---------------|--------------|
| NIL  |               |              |



## 27. Present details about infrastructural facilities

### a) Library

Total No. of books available in department library is 60.

| S.No | Academic Year | Book Titles (in nos.) | Book Volumes (in nos.) |
|------|---------------|-----------------------|------------------------|
| 1    | 2012 – 13     | NA                    | NA                     |
| 2    | 2013 – 14     | NA                    | NA                     |
| 3    | 2014 – 15     | Nil                   | Nil                    |
| 4    | 2015 – 16     | Nil                   | Nil                    |
| 5    | 2016 - 17     | 60                    | 60                     |

### b) Internet facilities for staff and students

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in all labs and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel.

### c) Total number of class rooms : 3

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|------|----------------|-------------------------------|--------------------|-------------------------------------------------------------|
| 1    | C - 306        | 86.4                          | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 2    | C - 307        | 86.4                          | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 3    | C - 310        | 86.4                          | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |

### d) Class rooms with ICT facility:2

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|------|----------------|-------------------------------|--------------------|-------------------------------------------------------------|
| 1    | C - 306        | 86.4                          | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 2    | C - 307        | 86.4                          | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 3    | C - 310        | 86.4                          | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |

**e) Students' laboratories :**

| S.No | Lab No.         | Area in Sq.m | Name of the Lab                                    |
|------|-----------------|--------------|----------------------------------------------------|
| 1    | F – 114 & 115   | 200.98       | Automotive Systems Laboratory                      |
| 2    | W - 013,014,015 | 224.97       | Engine Testing and Emission Measurement Laboratory |
| 3    |                 |              | Vehicle Maintenance and Re-Conditioning Laboratory |
| 4    | C - 308         | 137.3        | Electrical and Electronics Laboratory              |

**f) Research laboratories :**

| S.No | Year of Establishment | Name of the Lab | Description of the Equipments |
|------|-----------------------|-----------------|-------------------------------|
| Nil  |                       |                 |                               |

**28. Number of students of the department getting financial assistance from College.**

Total Number of Students : 6

Total Amount : 2,10,000

| Academic Year | Government        |           | Management        |           |
|---------------|-------------------|-----------|-------------------|-----------|
|               | Student benefited | Amount    | Student benefited | Amount    |
| 2012 - 13     | NA                | NA        | NA                | NA        |
| 2013 – 14     | NA                | NA        | NA                | NA        |
| 2014 – 15     | 16                | 3,80,000  | Nil               | Nil       |
| 2015 – 16     | 35                | 8,00,000  | Nil               | Nil       |
| 2016 - 17     | 46                | 10,60,000 | 6                 | 2, 10,000 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

No, additional programmes were not added to the department.

**30. Does the department obtain feedback from**

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes Feedback has been collected from Faculty on curriculum as well as teaching-learning-evaluation during the faculty meetings & BoS meetings. Each faculty members is provided with an expertise subject to make a comparison with

the other college's curriculum to enhance and strengthen the subject's quality. The final decision will be taken by BoS in this regard.

- b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Feedback has been collected on the above criteria's to improve the quality of the programme.

### **Students on Staff:**

Evaluation of students on staff has been obtained from the students on 10 criteria's for 100 marks. The faculty members are below par in the marks are requested to enhance their knowledge on the subject by attending various programs like Faculty Development Program, Workshops, Seminars, etc.,

### **Students on Curriculum:**

The suggestions have been taken from Toppers, Average & Slow learners about their needs on curriculum. Based on their needs, the changes in the subject will be incorporated during the Board of Studies meeting.

### **Students on Teaching-learning-Evaluation:**

The suggestions on the teaching-learning-evaluation are invited from the students through the regular interactions such as Quality circle meetings & Class committee meetings to improve the quality of the programme.

### **Response of the Department:**

Based on the suggestions from the students, the chair person of the committee will prepare the minutes of meeting and the same will be submitted to HoD & Principal. The necessary actions will be initiated on the suggestions by HoD with the approval of the Principal.

- c. Alumni and employers on the programmes and what is the response of the department to the same?

So far Alumni Survey & Employer Survey is not collected, because first batch will be passed out in the year 2016-2017.

### **31. List the distinguished alumni of the department (maximum 10)**

-NA -

### **32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| S.No               | Name of Event    | Title                                                     | Date       | External Experts                                                                    | No. of Beneficiary |
|--------------------|------------------|-----------------------------------------------------------|------------|-------------------------------------------------------------------------------------|--------------------|
| <b>2014 - 2015</b> |                  |                                                           |            |                                                                                     |                    |
| 1                  | Special Lectures | "Automobile Components Applications Using CREO and ANSYS" | 22/08/2014 | Er.M.Karthick<br>CADD Centre for Designs.<br>Avinashi road.<br>Coimbatore – 641037. | 60                 |
| 2                  | Special          | "Software for                                             | 12/09/2013 | Mr.V.Srinivasan                                                                     | 65                 |

|                    |                  |                                                                                      |            |                                                                                                                                                                            |     |
|--------------------|------------------|--------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                    | Lectures         | Automobile Design and Manufacturing”                                                 |            | Design Engineer<br>Xcelnow Solutions<br>Bangalore.                                                                                                                         |     |
| 3                  | Special Lectures | “Understanding The Industry needs”                                                   | 26/09/2014 | Mr.S.U.Mothilal,<br>Head Emerging Business,<br>Milltex Engineers Pvt. Ltd,<br>Coimbatore.                                                                                  | 180 |
| 4                  | Special Lectures | “Introduction To Kinematic Study and Flexible Motion Dynamic Analysis of V12 Engine” | 09/02/2015 | Mr.R.Balraj/ Manager-<br>Technical ARRIS CADD, 243,<br>Sow-ma Complex,<br>Gandhipuram, Coimbatore-<br>641012                                                               | 70  |
| 5                  | Special Lectures | “Introduction To Design and Modelling of Cutting Components Using Solid Works”       | 17/03/2015 | Mr.R.S. Mohanraj/ Manager-<br>Technical SIM Technologies<br>Pvt. Ltd., No. 1, Ramakrishna<br>Nagar, New Siddhapudur,<br>Coimbatore- 641044                                 | 70  |
| <b>2015 - 2016</b> |                  |                                                                                      |            |                                                                                                                                                                            |     |
| 6                  | Special Lectures | “Introduction about SAE, SUPRA, BAJA Vehicle Design ”                                | 23/07/2015 | Mr. V. Ganesh, Proprietor,<br>MAX CADD. 227, A3, Sathy<br>Main Road Upstairs City Union<br>Bank, Saravanampatti,<br>Coimbatore – 641035                                    | 70  |
| 7                  | Special Lectures | “Steering System”                                                                    | 31/08/2015 | Mr. L. Balaji, Senior Manager-<br>Product Development,<br>Ashok Leyland, Chennai                                                                                           | 140 |
| 8                  | Special Lectures | “Electronics and Microprocessor”                                                     | 04/09/2015 | Dr. Anitha Mary,<br>Associate Professor,<br>Karunya University,<br>Coimbatore.                                                                                             | 180 |
| 9                  | Special Lectures | “Design of Automobile Components by using CATIA”                                     | 28/09/2015 | Mr. M. Kathirvel<br>CAD Engineer,<br>CADD Technologies school of<br>design (P) Ltd., Coimbatore                                                                            | 70  |
| 10                 | Special Lectures | “ Automation in Automotive Industry”                                                 | 07/10/2015 | Dr. N. Kulasekaran,<br>AGM, FIAT Chrysler<br>Automobiles                                                                                                                   | 180 |
| 11                 | Special Lectures | “Computational Fluid Dynamics in Automotive Applications ”                           | 18/01/2016 | Mr. E. Balarajan, Graphler<br>Technology Solutions, No.5-B,<br>1st Floor, VUE GRANDE, New<br>Siddhapudhur, Coimbatore –<br>641 044                                         | 70  |
| 12                 | Special Lectures | “Automotive Chassis Components Design”                                               | 23/01/2016 | Dr. M. Subramanian,<br>Associate Professor,<br>PSG College of Technology.<br>Department of Automobile<br>Engineering,<br>Avinashi Road, Peelamedu,<br>Coimbatore – 641004. | 70  |
| 13                 | Special Lectures | “Design Of Automobile Components By Using CATIA”                                     | 20/02/2016 | Mr. B. Gowtham, CADD<br>Technologies School of Design<br>Private Ltd, Shop No.27/2,<br>Rajaji Street, Ram Nagar,<br>Coimbatore - 641009                                    | 70  |
| 14                 | Seminar          | “Career Guidance”                                                                    | 15/03/2016 | Mr. A. K. ArunPrasath,                                                                                                                                                     | 180 |

|                    |                  |                                                 |            |                                                                                                                                                                  |     |
|--------------------|------------------|-------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                    |                  |                                                 |            | Director, Astros Educational Institute, Coimbatore                                                                                                               |     |
| 15                 | Special Lectures | “Application of sensors in Automobile”          | 12/04/2016 | Mr. M. Sundar, Application Engineer, Axis global institute of industrial training, Coimbatore                                                                    | 70  |
| <b>2016 - 2017</b> |                  |                                                 |            |                                                                                                                                                                  |     |
| 16                 | Special Lectures | “Emission Measurement Technology”               | 15/07/2016 | Mr. Ahmed Sharif, CEO, SONRISA Technologies, Coimbatore.<br>ahmedshrfg@gmail.com<br>+91 9789432024                                                               | 200 |
| 17                 | Special Lectures | “Automotive Systems”                            | 16/07/2016 | Mr. K. P. Devakaran, Assistant Professor, PSG College Of Technology, Coimbatore                                                                                  | 70  |
| 18                 | Workshop         | “Hands on Training on Two and Four Wheeler”     | 19/08/2016 | Mr. M. Balakumar, In house Trainer, AadhiMaruthi, Cbe<br>Mr. S. Govarthan, Branch Manager, Aadhi Honda, Cbe                                                      | 64  |
| 19                 | Special Lectures | “Fuel Cell Technology for Mobility Engineering” | 24/08/2016 | Dr. P. Karthikeyan, Associate Professor, PSG College Of Technology, Coimbatore                                                                                   | 70  |
| 20                 | Workshop         | “ Diesel Engine Technology”                     | 17/09/2016 | Mr. E. Gokul Kumar, Manager, Engine R&D, Ashok Leyland Technical Centre,VellivayalChavadi, Manali New Town, Chennai, Tamil Nadu 600103<br>Contact : 044 25606633 | 110 |
| 21                 | Seminar          | “Six Sigma”                                     | 30/09/2016 | Mr.G.Manoj, M.E<br>Six Sigma Consultant, PQ Lease Solutions, Chennai.                                                                                            | 70  |

**33. List the teaching methods adopted by the faculty for different programmes.**

- Black Board Teaching
- Power Point Presentation
- Case study
- Industrial Visits
- Demonstrative model
- Motivation study
- Animation and Video presentations

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The department ensures that the programme objectives are met by means of Continuous Assessments like Internal Examinations, Semester Examinations, Quiz, Puzzles, Assignments, Seminars on a given topics, Students Feedback, Slow Learners Coaching classes, Class Committee Meetings, Students Performance Indicators, etc.,

**35. Highlight the participation of students and faculty in extension activities.**

**Act on Dream**

**Fine Arts**

- Dance
- music

**Social**

- National Service Scheme (NSS)
- Youth Red Cross (YRC)
- Red Ribbon Club (RRC)

**Youth Parliament**

**National Cadet Corps**

- Boys Wing

**Technical**

- Society of Automotive Engineers
- Indian Society for Technical Education

**36. Give details of “beyond syllabus scholarly activities” of the department.**

| S.No. | Title of ‘Beyond Syllabus Scholarly Activities’           |
|-------|-----------------------------------------------------------|
| 1.    | SAE – Baja                                                |
| 2.    | Go Kart                                                   |
| 3.    | Dirt Bike                                                 |
| 4.    | Industry Visit/ Internship                                |
| 5.    | Auto Expo                                                 |
| 6.    | Value added courses                                       |
| 7.    | One credit Courses                                        |
| 8.    | Paper Presentation                                        |
| 9.    | Consultancy Works                                         |
| 10.   | Research Proposals                                        |
| 11.   | Extension Activities                                      |
| 12.   | Organizing Conferences/Workshops/Guest Lectures           |
| 13.   | Participating in National/International level Conferences |

Students are given seminar topics on the latest trends & current updates beyond the syllabus. Regular guest lectures by Academic & industrial experts, short term training courses on software usage and Civil service exam & higher studies awareness are arranged by the department.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

|                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;"><b>STRENGTHS</b></p> <ul style="list-style-type: none"> <li>❖ Team work</li> <li>❖ State of Art of Infrastructure</li> <li>❖ Technically Strong&amp; dedicated young Faculty members</li> <li>❖ Highly Competitive students</li> <li>❖ SAE club activities</li> </ul> | <p style="text-align: center;"><b>WEAKNESSES</b></p> <ul style="list-style-type: none"> <li>❖ Lack of senior faculty members</li> <li>❖ Lack of Consultancy works</li> <li>❖ Lack of Paper Publications</li> <li>❖ Lack of Sponsored Research project</li> <li>❖ Lack of IPR activities</li> </ul> |
| <p style="text-align: center;"><b>OPPORTUNITIES</b></p> <ul style="list-style-type: none"> <li>❖ Location Advantage</li> <li>❖ Core Industry Placements Opportunities</li> <li>❖ Industrial Projects with high profile core companies</li> <li>❖ Activities through SAE Club</li> </ul>              | <p style="text-align: center;"><b>CHALLENGES</b></p> <ul style="list-style-type: none"> <li>❖ MoU with leading MNC companies</li> <li>❖ Faculty Retention</li> <li>❖ Bringing Automotive MNC companies for ON-Campus Placement drive</li> <li>❖ Collaboration with foreign universities</li> </ul> |

39. Future plans of the department

-  To Get NBA accreditation
-  To publish more number of national & international journals
-  To increase Consultancy & Research activities
-  To Conduct National and International Conferences on Emerging trends in Automobile Engineering
-  To file more number of patents
-  To create center of excellence in automobile field

## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

Name of the Department : **Civil Engineering**

Year of Establishment : **2009**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| Programme level | Programmes offered         | Year of Establishment | Initial Intake | Year of Increase in Intake/ Strength | NBA Accredited / Others |
|-----------------|----------------------------|-----------------------|----------------|--------------------------------------|-------------------------|
| UG Programme    | B.E Civil                  | 2009                  | 60             | -                                    | -                       |
| PG Programme    | M.E Structural Engineering | 2013                  | 18             | -                                    |                         |

### 3. Interdisciplinary courses and departments involved

| S.No | Interdisciplinary Courses                            | Semester | Department                             |
|------|------------------------------------------------------|----------|----------------------------------------|
| 1.   | Technical English I                                  | I        | Science and Humanities                 |
| 2.   | Engineering Mathematics I                            |          | Science and Humanities                 |
| 3.   | Engineering Physics                                  |          | Science and Humanities                 |
| 4.   | Engineering Chemistry                                |          | Science and Humanities                 |
| 5.   | Fundamentals of Computing and Programming            |          | Computer Science & Engineering         |
| 6.   | Engineering Drawing                                  |          | Mechanical Engineering                 |
| 7.   | Fundamentals of Computing and Programming Laboratory |          | Computer Science & Engineering         |
| 8.   | Communication Skills Laboratory                      |          | Science and Humanities                 |
| 9.   | Technical English II                                 | II       | Science and Humanities                 |
| 10.  | Engineering Mathematics II                           |          | Science and Humanities                 |
| 11.  | Material Science                                     |          | Science and Humanities                 |
| 12.  | Environmental Science and Engineering                |          | Science and Humanities                 |
| 13.  | Basic of Electrical and Electronics Engineering      |          | Electrical and Electronics Engineering |
| 14.  | Physics Laboratory                                   |          | Science and Humanities                 |
| 15.  | Chemistry Laboratory                                 |          | Science and Humanities                 |
| 16.  | Engineering Practices Laboratory                     |          | Mechanical Engineering                 |
| 17.  | Transforms and Partial Differential Equations        | III      | Science and Humanities                 |
| 18.  | Career Development Programme –I (Soft Skills)        |          | Skill Carrier & Development            |



| S.No | Interdisciplinary Courses                       | Semester | Department                  |
|------|-------------------------------------------------|----------|-----------------------------|
| 19.  | Statistics and Numerical Methods                | IV       | Science and Humanities      |
|      | Career Development Programme – II (Soft Skills) |          | Skill Carrier & Development |
| 20.  | Career Development Programme – III              | V        | Skill Carrier & Development |
| 21.  | Career Development Programme – III              | VI       | Skill Carrier & Development |

#### 4. Annual/ semester/choice based credit system

| S.No | Academic Year | Years / Semester      | System followed                  |
|------|---------------|-----------------------|----------------------------------|
| 1    | 2013 – 14     | All years & Semesters | Semester System R2013            |
| 2    | 2014 – 15     | All years & Semesters | Semester System R2013            |
| 3    | 2015 – 16     | II, III, & IV years   | Semester System R2013            |
|      |               | First year            | Choice Based Credit System R2015 |
| 4    | 2016 - 17     | III & IV years        | Semester System R2013            |
|      |               | I years               | Choice Based Credit System R2016 |
|      |               | II years              | Choice Based Credit System R2015 |

#### 5. Participation of the department in the courses offered by other departments

| S.No | Courses offered                        | Departments involved |
|------|----------------------------------------|----------------------|
| 1    | Basic Civil and Mechanical Engineering | B.E (Civil, Mech)    |
| 2    | Engineering Practices Laboratory       | B B.E (Civil, Mech)  |

#### 6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

S: Sanctioned

F: Filled

|                             | 2012 - 13 |   |    |   | 2013 – 14 |    |    |   | 2014 – 15 |    |    |   | 2015 - 16 |    |    |   | 2016 - 17 |   |    |   |
|-----------------------------|-----------|---|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|---|----|---|
|                             | UG        |   | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |   | PG |   |
|                             | S         | F | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F | S  | F |
| <b>Professors</b>           | 1         | 1 | -  | - | 1         | 1  | -  | - | 1         | 1  | -  | - | 1         | 1  | -  | - | 1         | 1 | -  | - |
| <b>Associate Professors</b> | 2         | 2 | -  | - | 1         | 1  | 1  | 1 | 2         | 2  | 1  | 1 | 2         | 2  | 1  | 1 | 2         | 3 | 1  | 1 |
| <b>Assistant Professors</b> | 9         | 9 | -  | - | 11        | 11 | 1  | 1 | 9         | 11 | 2  | 2 | 9         | 10 | 2  | 2 | 9         | 9 | 2  | 2 |

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| S.No | Name                      | Qualification    | Designation         | Specialization                          | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|------|---------------------------|------------------|---------------------|-----------------------------------------|----------------------------|---------------------------------------------------|
| 1.   | Dr.S.Kandasamy            | B.E., M.E., Ph.D | Professor & Head    | Structural Engineering                  | 36                         | Guiding:8                                         |
| 2.   | Dr.R.Anuradha             | B.E., M.E., Ph.D | Associate Professor | Structural Engineering                  | 16                         | Guiding:10                                        |
| 3.   | Mr.B.Senthil Kumar        | B.E.,M.E.,       | Associate Professor | Structural Engineering                  | 20                         | –                                                 |
| 4.   | Mr.K.Arumugam             | B.E.,M.E.,       | Associate Professor | Structural Engineering                  | 24                         | -                                                 |
| 5.   | Dr.S.Krishnapriya         | B.E., M.E., Ph.D | Assistant Professor | Structural Engineering                  | 8                          |                                                   |
| 6.   | Mrs.O.R.Kavitha           | B.E.,M.E.,       | Associate Professor | Structural Engineering                  | 14                         |                                                   |
| 7.   | Mr.R.M.Karthikeyan        | B.E.,M.E.,       | Assistant Professor | Structural Engineering                  | 26                         |                                                   |
| 8.   | Mrs S.D.Anitha Selvasofia | B.E.,M.E.,       | Assistant Professor | Geo - Informatics                       | 10                         |                                                   |
| 9.   | Mr.M.Balakrishnan         | B.E.,M.E.,       | Assistant Professor | Construction Engineering and Management | 19                         |                                                   |
| 10.  | Ms.P.Tharani              | B.E.,M.E.,       | Assistant Professor | Structural Engineering                  | 3                          |                                                   |
| 11.  | Mr.R.T.Arjun Siva Rathan  | B.E.,M.S.,       | Assistant Professor | Transportation Engineering              | 5                          |                                                   |
| 12.  | Mr.P.S.Venkatanarayana n  | B.E.,M.E.,       | Assistant Professor | Structural Engineering                  | 2                          |                                                   |
| 13.  | Ms.M.Deepikasree          | B.E.,M.E.,       | Assistant Professor | Structural Engineering                  | 2                          |                                                   |
| 14.  | Ms.S.Menaka               | B.E.,M.E.,       | Assistant Professor | Structural Engineering                  | 5 Months                   |                                                   |
| 15.  | Ms.A.J.R.Divya Dharani    | B.E.,M.E.,       | Assistant Professor | Structural Engineering                  | 5 Months                   |                                                   |
| 16.  | Mr.P.M.Arafat Bilal       | B.E.,M.E.,       | Assistant Professor | Environmental Engineering               | 5 Months                   |                                                   |

**8. Percentage of classes taken by temporary faculty – programme-wise information**

NIL – The department has always been adequately staffed and therefore there is no need for temporary faculty.

## 9. Programme-wise Student Teacher Ratio

| Year      | Programme | Total Students Strength | Faculty | Ratio S/T |
|-----------|-----------|-------------------------|---------|-----------|
| 2012 – 13 | UG        | 208                     | 12      | 17.33:1   |
|           | PG        | -                       | -       | -         |
| 2013 – 14 | UG        | 212                     | 13      | 16.3:1    |
|           | PG        | 17                      | 2       | 8.5:1     |
| 2014 – 15 | UG        | 207                     | 14      | 14.78:1   |
|           | PG        | 35                      | 3       | 11.66:1   |
| 2015 - 16 | UG        | 208                     | 13      | 16:1      |
|           | PG        | 35                      | 3       | 11.66:1   |
| 2016 - 17 | UG        | 209                     | 13      | 16.07:1   |
|           | PG        | 31                      | 3       | 10.33:1   |

## 10. Number of academic support staff (technical) and administrative staff: sanctioned and filled S: Sanctioned F: Filled

| Support Staff (technical) and administrative staff | 2012 - 13 |   | 2013 – 14 |   | 2014 – 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 3         | 3 | 3         | 3 | 3         | 2 | 3         | 2 | 3         | 3 |

## 11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. NIL

## 12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received NIL

## 13. Research facility / centre with

- state recognition – Yes

| S.No | Description                                               | Sanctioned Period                       | Recognized University    | File No & Date           |
|------|-----------------------------------------------------------|-----------------------------------------|--------------------------|--------------------------|
| 1    | Recongnized research centre to do Ph.D & M.S(By Research) | February 2016 to December 2018 (2Years) | Anna University, Chennai | 2063/IR/AR1 & 17.02.2016 |

- national recognition - Nil
- international recognition –Nil

#### 14. Publications:

|                                                                                                                                                                                                | 2012 - 13 | 2013 - 14 | 2014 - 15                    | 2015 - 16                    | 2016 - 17                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|------------------------------|------------------------------|------------------------------|
| <b>Number of papers published in peer reviewed journals (national / international)</b>                                                                                                         | 7         | 7         | 21                           | 10                           | 8                            |
| <b>Monographs</b>                                                                                                                                                                              | -         | -         | -                            | -                            | -                            |
| <b>Chapter(s) in Books</b>                                                                                                                                                                     | -         | -         | -                            | -                            | -                            |
| <b>Editing Books</b>                                                                                                                                                                           | -         | -         | -                            | -                            | -                            |
| <b>Books with ISBN numbers with details of publishers</b>                                                                                                                                      | -         | -         | -                            | -                            | -                            |
| <b>number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)</b> | -         | -         | 3-Scopus<br>6-Google Scholar | 2-Scopus<br>6-Google Scholar | 5-Scopus<br>7-Google Scholar |
| <b>Citation Index [ Range]</b>                                                                                                                                                                 | 2-70      |           |                              |                              |                              |
| <b>SNIP</b>                                                                                                                                                                                    | 0.5       | 0.5       | 0.3                          | 0.5                          | 0.5                          |
| <b>SIR</b>                                                                                                                                                                                     | 0.12      | 0.11      | 0.12                         | 0.939                        | 0.939                        |
| <b>Impact Factor [ Range]</b>                                                                                                                                                                  | 0.33-2.72 |           |                              |                              |                              |
| <b>h – index [ Range]</b>                                                                                                                                                                      | -         | 2         | 3                            | 4                            | 4                            |

#### 15. Details of patents and income generated

| Sl.No | Date of filing | Patent No | Title | Status |
|-------|----------------|-----------|-------|--------|
|       | Nil            |           |       |        |

#### 16. Areas of consultancy and income generated

| S.No | Year      | Name of the Faculty | Broad area of Consultancy Service | Name of the Company/ Organization    | Revenue generated for last four years in Rs |
|------|-----------|---------------------|-----------------------------------|--------------------------------------|---------------------------------------------|
| 1.   | 2012-2013 | Dr.G.Prince Arulraj | Structural Consultancy            | Sree Sabari Construction, Coimbatore | 3000.00                                     |
| 2.   |           | Mr.S.Selvakumar     | Material testing                  | Sree Vatsa Pvt Ltd, Coimbatore       | 300.00                                      |
| 3.   |           | Mr.S.Selvakumar     | Material testing                  | Prime Time Resorts, Coimbatore       | 1200.00                                     |
| 4.   |           | Mr.M.Ravichandran   | Quality                           | Adrait Urban                         | 800.00                                      |

|     |           |                           |                        |                                                |          |
|-----|-----------|---------------------------|------------------------|------------------------------------------------|----------|
|     |           |                           | Inspection             | Developers, Coimbatore                         |          |
| 5.  | 2013-2014 | Dr.G.Prince Arulraj       | Structural Consultancy | Sree Sabari Construction, Coimbatore           | 4500.00  |
| 6.  | 2013-2014 | Mr.S.Selvakumar           | Material Testing       | Muthu Hollow Blocks                            | 800.00   |
| 7.  |           | Mr.S.Selvakumar           | Material Testing       | T.R Associates, Pollachi                       | 1300.00  |
| 8.  | 2014-2015 | Dr.G.Prince Arulraj       | Structural Consultancy | Sree Sabari Construction, Coimbatore           | 1200.00  |
| 9.  |           | Mr.S.Selvakumar           | Material Testing       | SSV Infra, Coimbatore                          | 500.00   |
| 10. |           | Mr.M.Ravichandran         | Quality Inspection     | Sharpoorji Pallonji, Coimbatore                | 5000.00  |
| 11. |           | Mrs.S.D.Anitha Selvasofia | Material Testing       | Bethanam Associates, Coimbatore                | 1600.00  |
| 12. |           | Mrs.S.D.Anitha Selvasofia | Material Testing       | Coimbatore Institute of Technology, Coimbatore | 3000.00  |
| 13. | 2015-2016 | Mr.R.M.Karthikeyan        | Material Testing       | Coimbatore Institute of Technology, Coimbatore | 3000.00  |
| 14. |           | Mr.R.M.Karthikeyan        | Material Testing       | Bethanam Associates, Coimbatore                | 600.00   |
| 15. |           | Mr.R.M.Karthikeyan        | Water Testing          | Mr.Jeen Christopher, Coimbatore                | 2000.00  |
| 16. |           | Mrs.S.D.Anitha Selvasofia | Material Testing       | Er. Rajasekar, Coimbatore                      | 2400.00  |
| 17. |           | Mr.R.M.Karthikeyan        | Soil Testing           | Mrs. Sreedevi, Coimbatore                      | 5000.00  |
| 18. |           | Mrs.S.D.Anitha Selvasofia | Water Testing          | Mrs. Chandravadana, Coimbatore                 | 1500.00  |
| 19. |           | Mrs.S.D.Anitha Selvasofia | Water Testing          | Mr. Chandrasekar, Coimbatore                   | 2000.00  |
| 20. |           | Mr.R.M.Karthikeyan        | Material Testing       | Mr. Adhil, Coimbatore                          | 1000.00  |
| 21. | 2016-2017 | Mr.R.M.Karthikeyan        | Material Testing       | Dr.Damodharan, Coimbatore                      | 500.00   |
| 22. |           | Mr.R.T.Arjun Siva Rathan  | Soil Testing           | Larsen and Toubro Limited, Coimbatore          | 26400.00 |
| 23. |           | Mr.R.T.Arjun Siva Rathan  | Soil Testing           | Blue Line Construction, Namakkal               | 5250.00  |
| 24. |           | Mr.R.M.Karthikeyan        | Cube testing           | Oculus, Coimbatore                             | 350.00   |
| 25. |           | Mr.R.M.Karthikeyan        | Soil Testing           | Mr.Aravind, Saravanampatti                     | 4500.00  |
| 26. |           | Mr.R.M.Karthikeyan        | Cube testing           | Father's Site, Ooty                            | 250.00   |
| 27. |           | Mr.R.T.Arjun Siva Rathan  | Soil Testing           | Blue line Construction, Namakkal               | 4200.00  |
| 28. |           | Mr.R.T.Arjun Siva Rathan  | Soil Testing           | Dr. Ram, Salem                                 | 3000.00  |

## 17. Faculty recharging strategies

- Experts from industry and academia are invited to give guest lectures on research oriented, industry oriented, society oriented problems and topics related to emerging areas to motivate the faculty.

- Fundamentals of Nano Science
- Intelligent Transportation system
- Green Buildings
- Safety In Civil Engineering Practices
- Faculty members are motivated to attend various events. The details of event participation during last 5 years are mentioned below.

| S.No | Events                                                                                                           | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|------|------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1    | Workshops/ Seminars /Conference /Industry Orientation Programs / Industrial Visits /Faculty Development Programs | 6       | 4       | 43      | 30      | 6       |

### 18. Student projects

- percentage of students who have done in-house projects including inter-departmental and collaboration with industries / institutes

| Year      | Student Strength |    | Percentage of Students Project           |       |                               |       |
|-----------|------------------|----|------------------------------------------|-------|-------------------------------|-------|
|           |                  |    | In-house projects and inter-departmental |       | Collaboration with industries |       |
|           | UG               | PG | UG                                       | PG    | UG                            | PG    |
| 2012 - 13 | 64               | -  | 100                                      | -     | -                             | -     |
| 2013 - 14 | 71               | -  | 100-                                     | -     | -                             | -     |
| 2014 - 15 | 68               | 17 | 95.58                                    | 70.58 | 4.41                          | 29.41 |
| 2015 - 16 | 69               | 18 | 95.65                                    | 72.22 | 4.34                          | 27.77 |
| 2016 - 17 | 72               | 17 | 100                                      | 82.35 | -                             | 17.64 |

### 19. Awards / recognitions received at the national and international level by

- Faculty - NIL
- Doctoral / post doctoral fellows

| Name of the Faculty | Award    | Year |
|---------------------|----------|------|
| Dr.G.Manjula        | Doctoral | 2013 |
| Dr.S.Krishnapriya   | Doctoral | 2015 |

- Students

| S.No        | Name of the Students | Prize / University Rank | Event Name           |
|-------------|----------------------|-------------------------|----------------------|
| 2012 - 2013 |                      |                         |                      |
| 1.          | N.Vigneshwari        | 6                       | Anna University Rank |
| 2.          | C.M.Sruthi Rajam     | 29                      | Anna University Rank |
| 3.          | S.Prajeesh           | 45                      | Anna University Rank |

|                    |                                   |                                |                                                                                    |
|--------------------|-----------------------------------|--------------------------------|------------------------------------------------------------------------------------|
| 4.                 | P.L.Ashok Kumar                   | 49                             | Anna University Rank                                                               |
| 5.                 | V.Pavitha                         | 49                             | Anna University Rank                                                               |
| 6.                 | S.Prajeesh &<br>S.P. Jayemkondaan | Won cash Price of<br>Rs.20,000 | Coimbatore Builders and<br>Contractors Association organized<br>“Talent Hunt 2013” |
| <b>2013- 2014</b>  |                                   |                                |                                                                                    |
| 7.                 | N.Abinaya                         | 4                              | Anna University Rank                                                               |
| 8.                 | E.Ramachandran                    | 8                              | Anna University Rank                                                               |
| 9.                 | S.Menaka                          | 18                             | Anna University Rank                                                               |
| 10.                | S.Dhiviya Bharathi                | 30                             | Anna University Rank                                                               |
| <b>2014 - 2015</b> |                                   |                                |                                                                                    |
| 11.                | S.Krishna Kumar                   | I                              | Paper presentation at SVS College<br>of Engineering, Coimbatore                    |
| 12.                | R.Muneer Ahamed                   | I                              | Paper presentation at SVS College<br>of Engineering, Coimbatore                    |
| 13.                | V.Sangeetha                       | I                              | Paper presentation at Tamilnadu<br>College of Engineering, Coimbatore              |
| 14.                | S.Rohini                          | I                              | Paper presentation at Tamilnadu<br>College of Engineering, Coimbatore              |
| 15.                | R.Muneer Ahamed                   | I                              | Paper presentation & Quiz at<br>Kalaivani College of Technology,<br>Coimbatore     |
| <b>2015 - 2016</b> |                                   |                                |                                                                                    |
| 16.                | C.Manjula                         | I                              | CADD Quest at Adithya Institute of<br>Technology, Coimbatore.                      |
| 17.                | R.Hariharan                       | Limca Record                   | Mahatma Gandhi Art using 1 rupee<br>coins                                          |
| 18.                | B.Sakthi                          | Guinness Record                | Forward Skipping                                                                   |
| 19.                | B.Sakthi                          | Guinness Record                | Forward and reverse Skipping                                                       |
| 20.                | B.Sakthi                          | Limca Record                   | Forward and reverse Skipping                                                       |
| <b>2016 - 2017</b> |                                   |                                |                                                                                    |
| 21.                | Tharik Anwar                      | I                              | Selfie Quit at SNS college of<br>Engineering, Coimbatore.                          |
| 22.                | Veeranaveen Kumar.S               | I                              | Selfie Quit at SNS college of<br>Engineering, Coimbatore.                          |
| 23.                | Thanigaivel.S                     | I                              | Selfie Quit at SNS college of<br>Engineering, Coimbatore.                          |
| 24.                | Ajith Kumar.S                     | I                              | Dumb Charads at SNS college of<br>Technology, Coimbatore.                          |
| 25.                | Vishnuvarthan.M                   | I                              | Dumb Charads at SNS college of<br>Technology, Coimbatore.                          |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

| S.NO               | Event<br>(Seminars/<br>Conferences/<br>Workshops) | Title                                                                     | Duration | Sources<br>of funds | Participants |
|--------------------|---------------------------------------------------|---------------------------------------------------------------------------|----------|---------------------|--------------|
| <b>2013-2014</b>   |                                                   |                                                                           |          |                     |              |
| 1.                 | Seminar                                           | National seminar on application of Nano technology in Civil Engineering   | 1 day    | AICTE               | 120          |
| 2.                 | Symposium                                         | Land Mark                                                                 | 1 day    | SNSCT               | 90           |
| 3.                 | Conference                                        | Latest Advances in Civil Engineering for sustainable Development          | 1 day    | SNSCT               | 100          |
| <b>2014 - 2015</b> |                                                   |                                                                           |          |                     |              |
| 4.                 | Conference                                        | Latest Advances in Civil Engineering for sustainable Development          | 1 day    | SNSCT               | 100          |
| 5.                 | Workshop                                          | Cement and Concrete                                                       | 1 day    | Ultra Tech          | 208          |
| 6.                 | Seminar                                           | Chemical and mineral Admixtures of concrete                               | 1 day    | SNSCT               | 100          |
| 7.                 | Awareness program                                 | Masons on Good construction Practice                                      | 1 day    | SNSCT               | 30           |
| <b>2015 - 2016</b> |                                                   |                                                                           |          |                     |              |
| 8.                 | International Conference                          | International conference on Mechanical and building sciences (ICMBS 2016) | 2 days   | SNSCT               | 200          |
| 9.                 | Symposium                                         | TEXPERIA 2015                                                             | 2 days   | SNSCT               | 200          |
| 10.                | Workshop                                          | Construction Safety                                                       | 1day     | SNSCT               | 50           |
| 11.                | Workshop                                          | Experience meets Expectations                                             | 1day     | SNSCT               | 80           |
| 12.                | Workshop                                          | Tall Buildings                                                            | 1day     | SNSCT               | 70           |
| 13.                | Seminar                                           | Special Precautions on the Construction of Nuclear Power Plants           | 1day     | SNSCT               | 150          |
| <b>2016 - 2017</b> |                                                   |                                                                           |          |                     |              |
| 14.                | Workshop                                          | Recent Environmental Issues and Management                                | 1 day    | SNSCT               | 65           |
| 15.                | Seminar                                           | Recent Trends in Concrete Structures                                      | 1 day    | SNSCT               | 65           |



**21. Student profile course-wise:**

| Year      | Name of the Course  | Application Received | Selected |        | Pass percentage |        |
|-----------|---------------------|----------------------|----------|--------|-----------------|--------|
|           |                     |                      | Male     | Female | Male            | Female |
| UG        |                     |                      |          |        |                 |        |
| 2009-2013 | B.E., Civil         | NA                   | 52       | 12     | 71.11           | 100    |
| 2010-2014 | B.E., Civil         |                      | 52       | 18     | 59.61           | 100    |
| 2011-2015 | B.E., Civil         |                      | 56       | 11     | 57.14           | 100    |
| 2012-2016 | B.E., Civil         |                      | 57       | 12     | 59.64           | 100    |
| PG        |                     |                      |          |        |                 |        |
| 2011-2013 | M.E Structural Engg | NA                   | -        | -      | -               | -      |
| 2012-2014 | M.E Structural Engg |                      | -        | -      | -               | -      |
| 2013-2015 | M.E Structural Engg |                      | 11       | 6      | 81.81           | 100    |
| 2014-2016 | M.E Structural Engg |                      | 11       | 7      | 100             | 100    |

**22. Diversity of Students**

| Name of the Course                | Batch   | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|-----------------------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| <b>B.E Civil</b>                  | 2012-16 | -                              | 98.55                        | 1.44                            | -                                  |
|                                   | 2013-17 | -                              | 100                          | -                               | -                                  |
|                                   | 2014-18 | -                              | 96.92                        | 3.08                            | -                                  |
|                                   | 2015-19 | -                              | 100                          | -                               | -                                  |
|                                   | 2016-20 | -                              | 100                          | -                               | -                                  |
| <b>M.E Structural Engineering</b> | 2012-14 | -                              | -                            | -                               | -                                  |
|                                   | 2013-15 | -                              | 94.11                        | 5.88                            | -                                  |
|                                   | 2014-16 | -                              | 100                          | -                               | -                                  |
|                                   | 2015-17 | -                              | 94.11                        | 5.88                            | -                                  |
|                                   | 2016-18 | -                              | 78.57                        | 21.42                           | -                                  |

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

| S.No | Year of Passed out | Name of the Competitive Exam | No. of students cleared |         |
|------|--------------------|------------------------------|-------------------------|---------|
|      |                    |                              | Appeared                | Cleared |
| 1    | 2012               | GATE                         | -                       | -       |
|      |                    | TANCET                       | -                       | -       |
|      |                    | Others                       | -                       | -       |
| 2    | 2013               | GATE                         | 4                       | 2       |
|      |                    | TANCET                       | 8                       | 4       |
|      |                    | Others                       | -                       | -       |

|   |      |        |    |   |
|---|------|--------|----|---|
| 3 | 2014 | GATE   | 10 | - |
|   |      | TANCET | 7  | 7 |
|   |      | Others | -  | - |
| 4 | 2015 | GATE   | 7  | - |
|   |      | TANCET | 2  | 2 |
|   |      | Others | 1  | 1 |
| 5 | 2016 | GATE   | 3  | - |
|   |      | TANCET | 6  | 6 |
|   |      | Others | -  | - |

#### 24. Student progression

| Student Progression                    | Percentage against enrolled |       |       |      |
|----------------------------------------|-----------------------------|-------|-------|------|
|                                        | 2013                        | 2014  | 2015  | 2016 |
| <b>UG to PG</b>                        | 12.5                        | 15.71 | 8.955 | 1.44 |
| <b>PG to Ph.D.</b>                     | -                           | -     | -     | -    |
| <b>Employed</b>                        | 10                          | 22.9  | 44    | 50   |
| • <b>Campus selection</b>              |                             |       |       |      |
| • <b>Other than campus recruitment</b> | 40                          | 35    | 15    | 20   |
| <b>Entrepreneurs</b>                   | 3.125                       | 7.14  | 1.49  | 5.79 |

#### 25. Diversity of staff

| UG                                        |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | 45.45   | 40      | 47.05   | 46.66   | 55.55   |
| from other universities within the State  | 54.54   | 53.33   | 47.05   | 53.33   | 44.44   |
| from other universities from other States | -       | 6.66    | 5.88    | -       | -       |
| PG                                        |         |         |         |         |         |
| of the same parent university             | 81.81   | 73.33   | 76.47   | 80      | 77.77   |
| from other universities within the State  | 18.18   | 20      | 17.64   | 20      | 23.52   |
| from other universities from other States | -       | 6.66    | 5.88    | -       | -       |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

| S.No | Year of Award | No. of Ph.D. |
|------|---------------|--------------|
| 1    | 2013          | 1            |
| 2    | 2015          | 1            |

**27. Present details about infrastructural facilities**

**a) Library**

Total No. of books available in department library is 876 and it has project reports of all the students.

| S.No | Academic Year | Book Titles (in nos.) | Book Volumes (in nos.) |
|------|---------------|-----------------------|------------------------|
| 1    | 2012 – 13     | 245                   | 275                    |
| 2    | 2013 – 14     | 360                   | 375                    |
| 3    | 2014 – 15     | 360                   | 375                    |
| 4    | 2015 – 16     | 375                   | 386                    |
| 5    | 2016 - 17     | 445                   | 453                    |

**b) Internet facilities for staff and students**

Internet facilities are provided to Students and Staff members at the speed of 150 Mbps in all labs and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel.

**c) Total number of class rooms : 7**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|------|----------------|-------------------------------|--------------------|-------------------------------------------------------------|
| 1.   | D316           | 92.87                         | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 2.   | D314           | 92.87                         | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 3.   | D313           | 92.87                         | Exclusive          | Black board, Tables, Chair                                  |
| 4.   | D308           | 35.13                         | Exclusive          | Black board, Tables, Chair                                  |
| 5.   | D309           | 35.13                         | Exclusive          | Black board, Tables, Chair                                  |
| 6.   | D310           | 37.43                         | Exclusive          | Black board, Tables, Chair                                  |
| 7.   | D320           | 37.43                         | Exclusive          | Black board, Tables, Chair                                  |

**d) Class rooms with ICT facility: 2**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|------|----------------|-------------------------------|--------------------|-------------------------------------------------------------|
| 1    | D316           | 92.87                         | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 2    | D314           | 92.87                         | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |

**e) Students' laboratories :**

| S.No | Lab No.        | Area in Sq.m | Name of the Lab                              |
|------|----------------|--------------|----------------------------------------------|
| 1.   | D- 301,302,303 | 201.72       | CADD Laboratory                              |
| 2.   | D-010,011      | 151.5        | Soil Mechanics Laboratory                    |
| 3.   | D-007,008,009  | 211.95       | Concrete & Structural Engineering Laboratory |
| 4.   | W-007,008,009  | 209.93       | Strength of Materials Laboratory             |
| 5.   | W-004,005,006  | 209.93       | Fluid Mechanics Laboratory                   |
| 6.   | W-102          | 98.39        | Environmental Engineering Laboratory         |
| 7.   | D-012          | 78.68        | Survey Laboratory                            |

**f) Research laboratories : Nil**

| S.No | Year of Establishment | Name of the Lab | Description of the Equipments |
|------|-----------------------|-----------------|-------------------------------|
| 1    | -                     | -               | -                             |

**28. Number of students of the department getting financial assistance from College.**

Total Number of Students : 51

Total Amount : 1257100

| Academic Year | Government        |        | Management        |        |
|---------------|-------------------|--------|-------------------|--------|
|               | Student benefited | Amount | Student benefited | Amount |
| 2012 - 13     | 4                 | 43600  | -                 | -      |
| 2013 – 14     | 7                 | 100800 | -                 | -      |
| 2014 – 15     | 7                 | 45500  | -                 | -      |

|           |    |        |   |        |
|-----------|----|--------|---|--------|
| 2015 – 16 | 15 | 523400 | - | -      |
| 2016 - 17 | 15 | 298800 | 3 | 245000 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes, need Assessment exercise undertaken before the development of new programme.

- Referring to programmes offered by UGC and interaction with faculty of national and international Colleges and research centers like CSIR- SERC.
- Feedback obtained from Industry Experts, alumni and stakeholders. Before starting the new programme placement opportunities available for the students were assessed. Based on this assessment unique programmes were selected to cater the satellite city and smart city.

**Methodology:** This suggestion is considered in board of studies and recommendations are placed before the academic council for the approval of Civil Engineering and Planning Programme.

**30. Does the department obtain feedback from**

**a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes Feedback has been collected from Faculty on curriculum as well as teaching-learning-evaluation during the faculty meetings & BoS meetings. Each faculty members is provided with an expertise subject to make a comparison with the other college's curriculum nationally and internationally to enhance and strengthen the subject's quality. The final decision will be taken by BoS expert members & stakeholders and academic council in this regard.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

**Students on Staff:**

Evaluation of students on staff has been obtained from the students on 10 criteria's for 100 marks. The faculty members are below par in the marks are requested to enhance their knowledge on the subject by attending various programs like Faculty Development Program, Workshops, Seminars, etc.,

**Students on Curriculum:**

The suggestions have been taken from Toppers, Average & Slow learners about their needs on curriculum. Based on their needs, the changes in the subject will be incorporated during the Board of Studies meeting.

**Students on Teaching-learning-Evaluation:**

The suggestions on the teaching-learning-evaluation are invited from the students through the regular interactions such as Quality circle meetings & Class committee meetings to improve the quality of the programme.

**Response of the Department:**

Based on the suggestions from the students, the chair person of the committee will prepare the minutes of meeting and the same will be submitted to HoD & Principal. The necessary actions will be initiated on the suggestions by HoD with the approval of the Principal.

**c. Alumni and employers on the programmes and what is the response of the department to the same?**

**Alumni Survey:** The alumni feedback is obtained at the end of graduation and thereafter when alumni visit the institution and online. The suggestions given are included in the agenda of BoS for consideration.

**Employer Survey:** Feedback is received from the employers through emails and responses are included in the agenda for BoS for consideration. List the distinguished alumni of the department.

**31. List the distinguished alumni of the department (maximum 10)**

| S.No | Name of the Alumni | Batch     | Current Position         | Company                               |
|------|--------------------|-----------|--------------------------|---------------------------------------|
| 1    | A.Adin             | 2009-2013 | Design Engineer          | ALEC LLC - Building Excellence. DUBAI |
| 2.   | P.L Ashokkumar.    | 2009-2013 | Design Engineer          | ALEC LLC - Building Excellence. DUBAI |
| 3    | R Nithyaa          | 2009-2013 | Design Engineer          | ALEC LLC - Building Excellence. DUBAI |
| 4    | T.A Ariharan       | 2009-2013 | Design Engineer          | S&T Trade Company, Muscut             |
| 5    | E Ramachandran     | 2010-2014 | Design engineer          | L& T Constructions, Chennai           |
| 6    | M Syed Rahman      | 2010-2014 | Engineer                 | Indian Railways, Chennai              |
| 7    | M Prasanth         | 2010-2014 | Manager                  | Indian overseas Bank, Salem           |
| 8    | M Kaarthic         | 2011-2014 | Design Engineer          | Interiors International, Dubai        |
| 9    | M Chamundeswari    | 2011-2014 | Design Engineer          | Interiors International, Dubai        |
| 10   | G.Gowtham          | 2013-2015 | Design engineer          | Teemage Precast                       |
| 11   | X.John Britto      | 2014-2016 | Quality Control Engineer | Ultratech Ready Mix, CBE              |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| S.No               | Name of Event     | Title                                                                   | Date      | External Experts                                                 | No. of Beneficiary |
|--------------------|-------------------|-------------------------------------------------------------------------|-----------|------------------------------------------------------------------|--------------------|
| <b>2013-2014</b>   |                   |                                                                         |           |                                                                  |                    |
| 1.                 | Seminar           | National seminar on application of Nano technology in Civil Engineering | 08.02.14  | AICTE                                                            | 120                |
| <b>2014 - 2015</b> |                   |                                                                         |           |                                                                  |                    |
| 1.                 | Guest Lecture     | 3Ds Max and Archi CADD                                                  | 21.08.14  | AMSCAD SOLUTION, Coimbatore                                      | 75                 |
| 2.                 | Guest Lecture     | Structural Design                                                       | 21.08.14  | Er.Thilak Ranjith, Structural consultant                         | 65                 |
| 3.                 | Guest Lecture     | stress management to young technocrats                                  | 21.08.14  | B.Selvaraj,Phd , psychology/government arts and science college  | 150                |
| 4.                 | Guest Lecture     | Expectations of Industry from the Civil Engineering Students            | 13.08.14  | Mr.D.P.Das Deputy general manager (HR), L&T Construction,Chennai | 150                |
| 5.                 | Guest Lecture     | valuation of building                                                   | 29.01.15  | Er.Athi Gajendran, Structural consultant                         | 65                 |
| 6.                 | Guest Lecture     | Building bye laws                                                       | 31.01.15  | Er.Athi Gajendran, Structural consultant                         | 65                 |
| 7.                 | Workshop          | Cement and Concrete                                                     | 13.02.15  | MrA.P..Murugan, UltraTech cements pvt. Ltd                       | 208                |
| 8.                 | Seminar           | Chemical and mineral Admixtures of concrete                             | 26.03.15  | ErV.Santhosh, BASF India Ltd                                     | 100                |
| 9.                 | Awareness program | Masons on Good construction Practice                                    | 27.02.16  | Er.Gnanavel Murugan UltraTech Cements Ltd                        | 30                 |
| <b>2015 - 2016</b> |                   |                                                                         |           |                                                                  |                    |
| 10.                | Guest Lecture     | Consolidation of Soil                                                   | 12.09.15  | Dr. Muthukumaran, Associate Professor, NIT, Trichy               | 200                |
| 11.                | Guest Lecture     | NDT Techniques on RCC Structures                                        | 14.9.2015 | Dr. Ganesan, Professor, NIT, Calicut                             | 100                |
| 12.                | Guest Lecture     | Intelligent Transportation System                                       | 23.7.2015 | Dr. Moses Santhakumar, Professor, NIT, Trichy                    | 90                 |
| 13.                | Guest Lecture     | Advanced Design of Structures                                           | 07.9.2015 | Er.N.Dinesh, Sr.Design Engineer                                  | 70                 |
| 14.                | Guest Lecture     | Quantity surveying and estimation                                       | 17.2.2016 | Er.V.Subash, Vijaya & co, Saravanampatty                         | 72                 |

|                    |               |                                                                         |                     |                                                                                                          |     |
|--------------------|---------------|-------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------|-----|
| 15.                | Workshop      | Construction Safety                                                     | 13.02.15            | Arul Vijay S (HSE Trainer - Global & Indian Standards)                                                   | 50  |
| 16.                | Workshop      | Experience meets Expectations                                           | 05.03.16            | 25 Great Civil Engineers                                                                                 | 80  |
| 17.                | Workshop      | Tall Buildings                                                          | 20.08.15 & 21.08.15 | Er.Anish, IIT Chennai                                                                                    | 70  |
| 18.                | Seminar       | Special Precautions on the Construction of Nuclear Power Plants         | 24.07.16            | Er.Balakrishnan, Senior scientist, NPCIL, Kudangulam                                                     | 150 |
| <b>2016 - 2017</b> |               |                                                                         |                     |                                                                                                          |     |
| 19.                | Guest Lecture | Field expectations in Civil Engineering                                 | 15.07.16            | Er.R.Ruthresh, Ruthresh Structures, Coimbatore                                                           | 160 |
| 20.                | Guest Lecture | Scope of Business Entrepreneurship for Civil Engineers in Current Trend | 23.09.16            | Er.A.Arulnambi, Managing Partner, Arul Reddy Construction Corporation, Chennai                           | 75  |
| 21.                | Guest Lecture | Civil Engineer Building Construction Process                            | 27.09.16            | Er.V.Balaji Subbramanian, Sri Vijayarathi Associates (Structural Consultants And Engineers), Dharmapuri. | 70  |
| 22.                | Guest Lecture | Civil Engineer Opportunities And Qualities                              | 17.10.16            | Er.Abarna, Managing Director, Design World, Karur                                                        | 72  |
| 23.                | Guest Lecture | FEM application In Civil Engineering Department                         | 19.10.16            | Dr.V.R.Sivakumar, Professor, Karunya                                                                     | 35  |
| 24.                | Workshop      | Recent Environmental Issues and Management                              | 28.7.16             | Dr.R.Elangovan, Superintendent Engineer, Perambikulam                                                    | 65  |
| 25.                | Seminar       | Recent Trends in Concrete Structures                                    | 03.09.16            | Dr.G.S.Thirugnanam, Professor, IRTT, Erode                                                               | 65  |

**33. List the teaching methods adopted by the faculty for different programmes.**

- Black Board Teaching
- Power Point Presentation
- Case study



- Industrial Visits
- Demonstrative model
- Motivation study
- Animation and Video presentations

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

- Three periodical exams are conducted prior to the end semester examination to continuously monitor the learning depth of students
- Mini projects, participation in seminar and presentation of papers are made mandatory to check and analyze the learning outcome
- Mock interviews and group discussions are organized to the pre-final year and final year students to measure their performance
- Performance indicators of students and faculty are defined and reviewed constantly after each periodical test. After review the remedial action taken.
- As per ISO 9000 periodic auditing by internal and external audit teams is done twice a year. The report is considered by the department and suitable action is taken to set right any deficiencies.

**35. Highlight the participation of students and faculty in extension activities.**

**Act on Dream**

**Fine Arts**

- Dance
- music

**Social**

- National Service Scheme (NSS)
- Youth Red Cross (YRC)
- Red Ribbon Club (RRC)

**Youth Parliament**

**National Cadet Corps**

- Boys Wing

**Technical**

- Indian Geotechnical society
- Indian Society for Technical Education
- Membership in institution of Engineers
- Fellowship in Institution of Valuers

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- Industry Visit/ Internship
- Civil Expo
- Value added courses
- One credit Courses
- Paper Presentation
- Consultancy Works
- Research Proposals
- Extension Activities
- Organizing Conferences/Workshops/Guest Lectures
- Participating in National/International level Conferences

Students are given seminar topics on the latest trends & current updates beyond the syllabus. Regular guest lectures by Academic & industrial experts, short term training courses on software usage and Civil service exam & higher studies awareness are arranged by the department.

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details. No**

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

|                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STRENGTHS</b> <ul style="list-style-type: none"><li>❖ Team work</li><li>❖ State of Art of Infrastructure</li><li>❖ Technically Strong &amp; dedicated young Faculty members</li><li>❖ Highly Competitive students</li><li>❖ SAE club activities</li></ul> | <b>WEAKNESSES</b> <ul style="list-style-type: none"><li>❖ Lack of senior faculty members</li><li>❖ Strengthening of Consultancy works</li><li>❖ Journal Publications by the young faculty is to be strengthened</li><li>❖ Lack of Sponsored Research project</li><li>❖ Lack of IPR activities</li></ul> |
| <b>OPPORTUNITIES</b> <ul style="list-style-type: none"><li>❖ Location Advantage</li><li>❖ Core Industry Placements Opportunities</li><li>❖ Industrial Projects with high profile core companies</li><li>❖ Activities through SAE Club</li></ul>              | <b>CHALLENGES</b> <ul style="list-style-type: none"><li>❖ MoU with leading MNC companies</li><li>❖ Bringing MNC companies for ON-Campus Placement drive</li><li>❖ Collaboration with foreign universities</li></ul>                                                                                     |

**39. Future plans of the department.**

- To Get NBA accreditation
- To publish more number of national & international journals
- To increase Consultancy & Research activities
- To file more number of patents
- To create center of excellence in Civil Engineering field

## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

Name of the Department : **Computer Science and Engineering**

Year of Establishment : **2002**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| Programme level | Programmes offered | Year of Establishment | Initial Intake | Year of Increase in Intake/ Strength | NBA Accredited / Others       |
|-----------------|--------------------|-----------------------|----------------|--------------------------------------|-------------------------------|
| UG Programme    | B.E CSE            | 2002                  | 60             | 2007/120<br>2012/180                 | NBA Accredited Till July 2017 |
| PG Programme    | M.E CSE            | 2007                  | 18             | -                                    | -                             |
|                 | M.E SE             | 2011                  | 18             | -                                    |                               |
| PhD             | IC-SE/IT/ECE       | Dec 2012              | -              | -                                    |                               |

### 3. Interdisciplinary courses and departments involved

| S.No | Interdisciplinary Courses             | Semester | Department             |
|------|---------------------------------------|----------|------------------------|
| 1    | Technical English – I                 | I        | Science and Humanities |
| 2    | Engineering Mathematics – I           |          | Science and Humanities |
| 3    | Engineering Physics                   |          | Science and Humanities |
| 4    | Engineering Chemistry                 |          | Science and Humanities |
| 5    | Basic Civil & Mechanical Engineering  |          | Mechanical Engineering |
| 7    | Physics Laboratory                    |          | Science and Humanities |
| 8    | Engineering Practices Laboratory      |          | Mechanical Engineering |
| 9    | Technical English – II                | II       | Science and Humanities |
| 10   | Engineering Mathematics-II            |          | Science and Humanities |
| 11   | Physics of Materials                  |          | Science and Humanities |
| 12   | Environmental Science and Engineering |          | Science and Humanities |
| 13   | Engineering Graphics                  |          | Mechanical Engineering |

| S.No | Interdisciplinary Courses                     | Semester | Department                                |
|------|-----------------------------------------------|----------|-------------------------------------------|
| 15   | Communication skills Laboratory               | II       | Science and Humanities                    |
| 16   | Chemistry Laboratory                          |          | Science and Humanities                    |
| 17   | Transforms and partial Differential Equations | III      | Science and Humanities                    |
| 18   | Digital Electronics                           |          | Electronics and Communication Engineering |
| 19   | Digital Electronics Laboratory                |          | Electronics and Communication Engineering |
| 20   | Discrete Mathematics                          | IV       | Science and Humanities                    |
| 21   | Microprocessor and Microcontroller            |          | Electronics and Communication Engineering |
| 22   | Probability and Queuing Theory                | V        | Science and Humanities                    |

#### 4. Annual/ semester/choice based credit system

| S.No | Academic Year | Years / Semester      | System followed                  |
|------|---------------|-----------------------|----------------------------------|
| 1    | 2013 – 14     | All years & Semesters | Semester System R2013            |
| 2    | 2014 – 15     | All years & Semesters | Semester System R2013            |
| 3    | 2015 – 16     | II, III & IV years    | Semester System R2013            |
|      |               | First year            | Choice Based Credit System R2015 |
| 4    | 2016 - 17     | III & IV years        | Semester System R2013            |
|      |               | I years               | Choice Based Credit System R2015 |
|      |               | II years              | Choice Based Credit System R2016 |

#### 5. Participation of the department in the courses offered by other departments

| S. No | Courses offered                           | Departments involved                  |
|-------|-------------------------------------------|---------------------------------------|
| 1     | Fundamentals of Computing and Programming | B.E (ECE, EEE, EIE,M&A,C&P,AUTO, BME) |
| 2     | Data structures and Algorithms            | B.E (EEE,EIE)                         |
| 3     | Data structures and Algorithms Laboratory | B.E (EEE,EIE)                         |
| 4     | Object Oriented Programming using C++     | B.E (EEE,EIE)                         |
| 5     | Object Oriented Programming using C++ Lab | B.E (EEE,EIE)                         |
| 6     | Internet and Java Programming             | MCA                                   |
| 7     | Professional Ethics                       | MCA                                   |

|    |                              |                                  |
|----|------------------------------|----------------------------------|
| 8  | Graphics and Multimedia      | MCA                              |
| 9  | Principles of Management     | MCA                              |
| 10 | Enterprise Resource Planning | MBA                              |
| 11 | Knowledge Management         | MBA,M.Tech(IT),<br>M.E.(Thermal) |
| 12 | Operating Systems            | B.E (EEE)                        |
| 13 | Computer Networks            | B.E (EEE)                        |

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

|                             | 2012 - 13 |    |    |   | 2013 - 14 |    |    |   | 2014 - 15 |    |    |   | 2015 - 16 |    |    |   | 2016 - 17 |    |    |   |
|-----------------------------|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|
|                             | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   |
|                             | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F |
| <b>Professors</b>           | 2         | 2  | -  | - | 2         | 2  | -  | - | 2         | 2  | 1  | 1 | 2         | 2  | 2  | 2 | 3         | 2  | 1  | 1 |
| <b>Associate Professors</b> | 3         | 3  | -  | - | 3         | 3  | -  | - | 3         | 3  | -  | - | 3         | 3  | -  | - | 8         | 2  | -  | - |
| <b>Assistant Professors</b> | 24        | 24 | 7  | 7 | 26        | 26 | 7  | 7 | 27        | 27 | 5  | 5 | 37        | 37 | 4  | 4 | 32        | 33 | 5  | 5 |

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| S. No | Name                   | Qualification | Designation         | Specialization | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|-------|------------------------|---------------|---------------------|----------------|----------------------------|---------------------------------------------------|
| 1     | Dr.S.Karthik           | M.E.,Ph.D     | Professor & Dean    | Ph.D CSE       | 17.5                       | Guided: 12<br>Guiding:12                          |
| 2     | Dr.T.Kalaikumaran      | M.E.,Ph.D     | Professor & HoD     | Ph.D CSE       | 19.7                       | -                                                 |
| 3     | Dr.B.Chellaprabha      | M.E.,Ph.D     | Professor           | Ph.D ICE       | 19.11                      | -                                                 |
| 4     | Dr.I.Kala              | M.E.,Ph.D     | Associate Professor | Ph.D ICE       | 15.10                      | -                                                 |
| 5     | Dr.K.Srihari           | M.E.,Ph.D     | Associate Professor | Ph.D ICE       | 8.4                        | Guiding: 5                                        |
| 6     | Mr.B.Santhosh Kumar    | M.E.,(Ph.D)   | Associate Professor | M.E CSE        | 12.6                       | -                                                 |
| 7     | Mr. R. Kamalraj        | M.E.,(Ph.D)   | Asst. Professor     | M.E CSE        | 13.6                       | -                                                 |
| 8     | Dr. R. Roopa Chandrika | M.E.,Ph.D     | Asst. Professor     | M.E CSE        | 14.11                      | -                                                 |
| 9     | Mrs.V.Praveena         | M.E.,(Ph.D)   | Asst. Professor     | M.E CSE        | 14.7                       | -                                                 |

|    |                           |             |                            |              |       |   |
|----|---------------------------|-------------|----------------------------|--------------|-------|---|
| 10 | Dr.R.Sabitha              | M.E.,Ph.D   | Asst.<br>Professor<br>(SG) | Ph.D ICE     | 11.5  | - |
| 11 | Dr.R.M.Bhavadharini       | M.E.,Ph.D   | Asst.<br>Professor         | Ph.D ICE     | 11.10 | - |
| 12 | Ms.V.Savitha              | M.E.,(Ph.D) | Asst.<br>Professor         | M.E CSE      | 12.0  | - |
| 13 | Mrs.M.Kavitha             | M.E.(Ph.D)  | Asst.<br>Professor         | M.E CSE      | 10.6  | - |
| 14 | Mrs.K.Sangeetha           | M.E.,(Ph.D) | Asst.<br>Professor         | M.E CSE      | 9.9   | - |
| 15 | Mrs.B.Vinodhini           | M.E.(Ph.D)  | Asst.<br>Professor         | M.E CSE      | 11.0  | - |
| 16 | Mrs. S. Vidya             | M.E.,(Ph.D) | Asst.<br>Professor         | M.E CSE      | 9.8   | - |
| 17 | Mrs.P.Poonkodi            | M.E         | Asst.<br>Professor         | M.E CSE      | 8.9   | - |
| 18 | Mr.S.Vinoth Kumar         | M.E.,(Ph.D) | Asst.<br>Professor         | M.E CSE      | 8.8   | - |
| 19 | Dr.S.Raja<br>Ranganathan  | M.E.,Ph.D   | Asst.<br>Professor         | Ph.D ICE     | 6.8   | - |
| 20 | Dr.D.Prabakar             | M.E.,Ph.D   | Asst.<br>Professor         | Ph.D ICE     | 6.8   | - |
| 21 | Mr.A.Christopher<br>Paul  | M.E.(Ph.D)  | Asst.<br>Professor         | M.E CSE      | 7.8   | - |
| 22 | Mr. S.Sathish Kumar       | M.E.,(Ph.D) | Asst.<br>Professor         | M.E CSE      | 5.9   | - |
| 23 | Mr. C. Chandru<br>Vignesh | M.E.,(Ph.D) | Asst.<br>Professor         | M.E SE       | 5.9   | - |
| 24 | Mrs.K.Maheswari           | M.E         | Asst.<br>Professor         | M.E CSE      | 7.9   | - |
| 25 | Mr.R.Senthil Kumar        | M.E         | Asst.<br>Professor         | M.E CSE      | 8.0   | - |
| 26 | Mrs.S.R.Janani            | M.Tech      | Asst.<br>Professor         | M.Tech<br>IT | 4.6   | - |
| 27 | Mr.M.Karthick             | M.E.,(Ph.D) | Asst.<br>Professor         | M.E CSE      | 4.8   | - |
| 28 | Mrs.S.Vaishnavi           | M.E         | Asst.<br>Professor         | M.E SE       | 3.9   | - |
| 29 | Mr.C.B.Sivaparthipan      | M.E.,(Ph.D) | Asst.<br>Professor         | M.E SE       | 4.8   | - |
| 30 | Mrs.P.Dhivya              | M.E         | Asst.<br>Professor         | M.E CSE      | 5.7   | - |
| 31 | Ms.M.Shobana              | M.E         | Asst.<br>Professor         | M.E CSE      | 3.8   | - |
| 32 | Ms.S.Gomathi              | M.E.,(Ph.D) | Asst.<br>Professor         | M.E CSE      | 2.7   | - |
| 33 | Ms.M.Dharini              | M.E         | Asst.                      | M.E CSE      | 2.7   | - |

|    |                    |             |                    |         |     |   |
|----|--------------------|-------------|--------------------|---------|-----|---|
|    |                    |             | Professor          |         |     |   |
| 34 | Ms.U.Supriya       | M.E         | Asst.<br>Professor | M.E CSE | 2.2 | - |
| 35 | Ms.G.S.Gopika      | M.E.,(Ph.D) | Asst.<br>Professor | M.E CSE | 1.9 | - |
| 36 | Ms.R.Monisha       | M.E         | Asst.<br>Professor | M.E SE  | 1.9 | - |
| 37 | Ms.T.Sivaranjini   | M.E         | Asst.<br>Professor | M.E SE  | 1.9 | - |
| 38 | Mrs.S.Kavitha      | M.E         | Asst.<br>Professor | M.E SE  | 1.9 | - |
| 39 | Ms.S.Pushpalatha   | M.E         | Asst.<br>Professor | M.E CSE | 1.9 | - |
| 40 | Mr.J.Alfred Daniel | M.S.,(Ph.D) | Asst.<br>Professor | M.S CSE | 1.9 | - |
| 41 | Ms.M.Vaijayanthi   | M.E         | Asst.<br>Professor | M.E CSE | 1.9 | - |
| 42 | Ms.S.Indhurekha    | M.E         | Asst.<br>Professor | M.E SE  | 1.9 | - |
| 43 | Ms.S.Jayashree     | M.E         | Asst.<br>Professor | M.E SE  | 0.9 | - |

#### 8. Percentage of classes taken by temporary faculty – programme-wise information

NIL – The department has always been adequately staffed and therefore there is no need for temporary faculty.

#### 9. Programme-wise Student Teacher Ratio

| Year      | Programme | Total Students<br>Strength | Faculty | Ratio S/T |
|-----------|-----------|----------------------------|---------|-----------|
| 2012 – 13 | UG        | 394                        | 29      | 14:1      |
|           | PG        | 72                         | 7       | 10:1      |
| 2013 – 14 | UG        | 393                        | 31      | 13:1      |
|           | PG        | 70                         | 7       | 10:1      |
| 2014 – 15 | UG        | 401                        | 32      | 13:1      |
|           | PG        | 61                         | 6       | 10:1      |
| 2015 - 16 | UG        | 468                        | 42      | 11:1      |
|           | PG        | 36                         | 6       | 6:1       |
| 2016 - 17 | UG        | 486                        | 43      | 11:1      |
|           | PG        | 16                         | 6       | 3:1       |

**10. Number of academic support staff (technical) and administrative staff: Sanctioned and Filled**

| Support Staff (technical) and administrative staff | 2012 - 13 |   | 2013 - 14 |   | 2014 - 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 5         | 5 | 6         | 6 | 9         | 9 | 6         | 6 | 6         | 6 |

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. NIL**

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received NIL**

**13. Research facility / centre with**

- **State recognition – Nil**

| S.No | Description                                              | Sanctioned Period   | Recognized University    | File No & Date                          |
|------|----------------------------------------------------------|---------------------|--------------------------|-----------------------------------------|
| 1    | Recognized Research centre to do Ph.D & M.S(By Research) | Up to December 2018 | Anna University, Chennai | Lr.No.2663/IR/C SE/AR1 dated 05.03.2016 |

- **National recognition - Nil**
- **International recognition –Nil**

**14. Publications:**

|                                                                                        | 2012 - 13 | 2013 - 14 | 2014 - 15 | 2015 - 16 | 2016 - 17 |
|----------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| <b>Number of papers published in peer reviewed journals (National / International)</b> | 66        | 77        | 56        | 88        | 27        |
| <b>Monographs</b>                                                                      | -         | -         | -         | -         | -         |
| <b>Chapter(s) in Books</b>                                                             | -         | -         | 1         | -         | -         |
| <b>Editing Books</b>                                                                   | -         | -         | -         | -         | -         |
| <b>Books with ISBN numbers with details of publishers</b>                              | -         | -         | -         | -         | 2         |

\* **Citation Index – range / average – Max: 830 Min: 1**

\* **SNIP – Max: 0.67 Min:0.389**

\* **SJR – Max: 0.249 Min:0.136**



\* **Impact factor – range / average** – 0.675 to 5.442

\* **h-index** – Max: 16 Min: 1

\* **i10-index** – Max: 18 Min: 1

#### 15. Details of patents and income generated

| S. No          | Name of the faculty | Patent filed Date | Application No.                    | Title of the patent                                                                    | Status                                          |
|----------------|---------------------|-------------------|------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------|
| Granted Patent |                     |                   |                                    |                                                                                        |                                                 |
| 1              | J. Alfred Daniel    | 01.04.2015        | 10-2015-0046184<br>(Korean Patent) | A system of cooperative vehicular network based on Cognitive radio                     | Reg. No: 1015891020000<br>Granted on 21.01.2016 |
| Filed Patents  |                     |                   |                                    |                                                                                        |                                                 |
| 1              | Dr. S.Karthik       | 10.02.2016        | 201621003252                       | Safe mode login transaction(SMLT) for forces online banking Intrusion Activity (FOBIA) | Patent Filed                                    |

#### 16. Areas of consultancy and income generated

| S. No                          | Year      | Name of the faculty                                        | Area of Consultancy     | Organization                         | Income (Rs.) |
|--------------------------------|-----------|------------------------------------------------------------|-------------------------|--------------------------------------|--------------|
| 1                              | 2014-2015 | Mrs.M. Sumathi<br>Mrs.S.Vidya                              | System Design           | Sandfits Foundries                   | NIL          |
| 2                              | 2015-2016 | Dr.S.Karthik<br>Dr. T. Kalaikumaran                        | Mobile Apps             | BE Positive Technologies, Coimbatore | 1,00,000     |
|                                |           | Dr.S.Karthik<br>Dr. T. Kalaikumaran                        | Application Development | PRS Techno Solutions, Coimbatore     | 50,000       |
| 3                              | 2016-2017 | Dr.S.Raja Ranganathan<br>Dr.T.Kalaikumaran<br>Dr.S.Karthik | Navigation System       | Image Institute Private Limited      | 1,50,000     |
| <b>Total Income Generated:</b> |           |                                                            |                         |                                      | 3,00,000     |

#### 17. Faculty recharging strategies

- Experts from industry and academia are invited to give guest lectures on research oriented, industry oriented, society oriented problems and topics related to emerging areas to motivate the faculty.
- Faculty members are motivated to attend various events. The details of event participation during last 5 years are mentioned below.

| S.No | Events                                                                                                             | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|------|--------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1    | Workshops/ Seminars /Conference / Industry Orientation Programs / Industrial Visits / Faculty Development Programs | 200     | 193     | 140     | 88      | 34      |

### 18. Student projects

- percentage of students who have done in-house projects including inter-departmental and collaboration with industries / institutes

| Year      | Student Strength |    | Percentage of Students Project           |     |                               |    |
|-----------|------------------|----|------------------------------------------|-----|-------------------------------|----|
|           |                  |    | In-house projects and inter-departmental |     | Collaboration with industries |    |
|           | UG               | PG | UG                                       | PG  | UG                            | PG |
| 2012 - 13 | 127              | 36 | 100                                      | 100 | -                             | -  |
| 2013 – 14 | 140              | 36 | 100                                      | 100 | -                             | -  |
| 2014 – 15 | 122              | 34 | 95.9                                     | 100 | 4.1                           | -  |
| 2015 - 16 | 130              | 26 | 54.6                                     | 100 | 45.4                          | -  |

### 19. Awards / recognitions received at the national and international level by

- Faculty

| S. No | Academic Year | Name of the Faculty/Designation | Name of the Award                                              | Awarded By                                          |
|-------|---------------|---------------------------------|----------------------------------------------------------------|-----------------------------------------------------|
| 1     | 2012-13       | Dr.S.Karthik, Dean              | Best Faculty Award-Senior                                      | Nehru group of Institutions                         |
| 2     | 2013-14       | Dr.S.Karthik, Dean              | Best Academic Dean                                             | ASDF Global Award, Techno Forum Group, Pondicherry  |
| 3     | 2014-15       | Dr.S.Karthik, Dean              | Best Teacher Award                                             | Global Vision Infocon Services Pvt Ltd., Coimbatore |
| 4     | 2014-15       | Dr.S.Karthik, Dean              | Best Academic Dean                                             | ASDF Global Award, Thailand Chapter                 |
| 5     | 2015-16       | Dr.S.Karthik, Dean              | Biographical record in Who's in Who in the world" 33rd Edition | Marquis Who's Who Publication Board                 |

- Doctoral / post doctoral fellows

| Name of the Faculty   | Award    | Year |
|-----------------------|----------|------|
| Dr.S.Karthik          | Doctoral | 2012 |
| Dr.T.Kalaikumaran     | Doctoral | 2013 |
| Dr.S.Raja Ranganathan | Doctoral | 2015 |
| Dr.S.Kannan           | Doctoral | 2016 |

|                        |          |      |
|------------------------|----------|------|
| Dr.D.Prabakar          | Doctoral | 2016 |
| Dr.R.M.Bhavadharini    | Doctoral | 2016 |
| Dr.A.Chandrasekar      | Doctoral | 2016 |
| Dr.S.Dhanalakshmi      | Doctoral | 2016 |
| Dr.I.Kala              | Doctoral | 2017 |
| Dr. R. Roopa Chandrika | Doctoral | 2017 |

○ **Students**

| S.No               | Name of the Students | Prize / University Rank | Event Name                               |
|--------------------|----------------------|-------------------------|------------------------------------------|
| <b>2012 – 2013</b> |                      |                         |                                          |
| 1                  | M.Unnamalai          | 36                      | Anna University Rank                     |
| 2                  | K.R.Nivethitha       | 39                      | Anna University Rank                     |
| 3                  | S.Pradeep            | 42                      | Anna University Rank                     |
| 4                  | Veena Prabhu         | 46                      | Anna University Rank                     |
| 5                  | R.Ramya              | 35                      | Anna University Rank                     |
| 6                  | L.Lalitha            | 42                      | Anna University Rank                     |
| 7                  | K.Ganga              | 43                      | Anna University Rank                     |
| 8                  | T.K.Ariya            | 46                      | Anna University Rank                     |
| 9                  | S.Biruntha           | 46                      | Anna University Rank                     |
| 10                 | M.Shobana            | 46                      | Anna University Rank                     |
| 11                 | S.Vaishnav           | 8                       | Anna University Rank                     |
| <b>2013- 2014</b>  |                      |                         |                                          |
| 1                  | Ginu Chacko          | 8                       | Anna University Rank                     |
| 2                  | Sujatha. R           | 23                      | Anna University Rank                     |
| 3                  | Subhashini. T. R     | 23                      | Anna University Rank                     |
| 4                  | Priyanga .P          | 29                      | Anna University Rank                     |
| 5                  | Lakshmi prabha .S    | 42                      | Anna University Rank                     |
| 6                  | Padmavathi .P        | 42                      | Anna University Rank                     |
| 7                  | Saranya .C           | 42                      | Anna University Rank                     |
| 8                  | Chippy. A            | 42                      | Anna University Rank                     |
| 9                  | Kasthuri. J. P       | 44                      | Anna University Rank                     |
| 10                 | Elakkiyaa. C. V      | 46                      | Anna University Rank                     |
| 11                 | Lavanya .S           | 48                      | Anna University Rank                     |
| 12                 | Dhivyashree.M        | 37                      | Anna University Rank                     |
| 13                 | Sibidharan N         | I                       | Googler at KGiSL Institute of Technology |
| 14                 | Balaji P             | I                       | Spooky at CMS College of Engineering     |
| <b>2014 - 2015</b> |                      |                         |                                          |
| 1                  | Sowbaranika.S        | 11                      | Anna University Rank                     |
| 2                  | Muthu Bavithra.S     | 26                      | Anna University Rank                     |
| 3                  | Indhuja.A            | 27                      | Anna University Rank                     |
| 4                  | Kokilavani.K         | 46                      | Anna University Rank                     |

|                    |                 |    |                                                                                                       |
|--------------------|-----------------|----|-------------------------------------------------------------------------------------------------------|
| 5                  | Balajee.K S     | I  | Poster Designing at PSGCAS                                                                            |
| 6                  | Srimanikandan B | I  | Quiz at KGISL college of Technology                                                                   |
| 7                  | Sethupathy.T    | I  | Open Code Battle at SNS College of Technology                                                         |
| 8                  | Vinoth Kumar.G  | I  | Open Code Battle at SNS College of Technology                                                         |
| 9                  | Sethupathy.T    | I  | Technical Quiz at Kongu Engineering College                                                           |
| 10                 | Vinoth Kumar.G  | I  | Technical Quiz at Kongu Engineering College                                                           |
| 11                 | Sibidhraran N   | I  | Technical Event Contest (Mobile Appathon 2015) at Sri Shakthi Institute of Engineering and Technology |
| 12                 | Venkatesh P     | I  | Technical Event Contest (Mobile Appathon 2015) at Sri Shakthi Institute of Engineering and Technology |
| <b>2015 - 2016</b> |                 |    |                                                                                                       |
| 1                  | Krithika.P      | 36 | Anna University Rank                                                                                  |
| 2                  | Chandhini.K     | 38 | Anna University Rank                                                                                  |
| 3                  | Jenifer P       | I  | Quiz at AVS College of Technology                                                                     |
| 4                  | Kayalvizhi S    | I  | Surprise Event at Hindusthan College of Engineering and Technology                                    |
| 5                  | Priyanka G      | I  | Surprise Event at Hindusthan College of Engineering and Technology                                    |
| 6                  | Mythili K       | I  | Surprise Event at Hindusthan College of Engineering and Technology                                    |
| 7                  | Mani D          | I  | Surprise Event at Hindusthan College of Engineering and Technology                                    |
| 8                  | Pavithra E      | I  | Multimedia Presentation at Vellalar College of Engineering & Technology                               |
| 9                  | Keerthana J K   | I  | Multimedia Presentation at Vellalar College of Engineering & Technology                               |
| 10                 | Vinoth Kumar G  | I  | Mark Pro at SNS College of Technology                                                                 |
| 11                 | Sethupathy T    | I  | Mark Pro at SNS College of Technology                                                                 |
| 12                 | Vinoth Kumar G  | I  | Logo Hunt at SNS College of Technology                                                                |
| 13                 | Sethupathy T    | I  | Logo Hunt at SNS College of Technology                                                                |
| 14                 | Birundha N      | I  | Technical Quiz at Sri Shakthi Institute of Engineering &                                              |

|    |                             |   |                                                                       |
|----|-----------------------------|---|-----------------------------------------------------------------------|
|    |                             |   | Technology                                                            |
| 15 | Divya P                     | I | Technical Quiz at Sri Shakthi Institute of Engineering & Technology   |
| 16 | Aparna R                    | I | Code Wizz at Sri Shakthi Institute of Engineering & Technology        |
| 17 | Arthi T                     | I | Code Wizz at Sri Shakthi Institute of Engineering & Technology        |
| 18 | Rahul R Venkitesh           | I | Photography at Bannari Amman Institute of Technology                  |
| 19 | Nivetha K                   | I | Honorary Mention Award prize in “MUN” at SNS College of Technology    |
| 20 | Kamalesh S                  | I | Tricky Tech at Kumaraguru College of Technology                       |
| 21 | Nishanth K R                | I | Tricky Tech at Kumaraguru College of Technology                       |
| 22 | Prem Kumar S T              | I | Virtual Stock Market at Kumaraguru College of Technology              |
| 23 | Tissin T                    | I | Paper Presentation at NI College of Engineering                       |
| 24 | Kavya K                     | I | Marketing at Government College of Engineering                        |
| 25 | Naveen R                    | I | Short Film – Best Editor at Bannari Amman Institute of Technology     |
| 26 | Divya R                     | I | Honorary Mention Award prize in “MUN” at Amrita College of Technology |
| 27 | Akshaya R                   | I | Technical Event at Sri Krishna College of Engineering and Technology  |
| 28 | Devisri C S                 | I | Technical Event at Sri Krishna College of Engineering and Technology  |
| 29 | Muthu K V                   | I | App Mania at SNS College of Technology                                |
| 30 | Madhusudhanan M             | I | App Mania at SNS College of Technology                                |
| 31 | Kishore M                   | I | App Mania at SNS College of Technology                                |
| 32 | ArunPrasanth M              | I | Paper Presentation at PPG Institute of Technology                     |
| 33 | BalaVenkatasatyEaswararao P | I | Paper Presentation at PPG Institute of Technology                     |
| 34 | Jaheer Basha S              | I | A+N+ at PPG Institute of Technology                                   |
| 35 | Gowtham S                   | I | A+N+ at PPG Institute of Technology                                   |
| 36 | Sabitha S                   | I | Best Manager at PPG Institute of Technology                           |

|                    |                   |   |                                                                                |
|--------------------|-------------------|---|--------------------------------------------------------------------------------|
| 37                 | Alex Jeeva J J    | I | Events at Karpagam Academy                                                     |
| 38                 | Aditya A Shenai   | I | Events at Karpagam Academy                                                     |
| 39                 | Jaheer Basha S    | I | Multi Tasking at Venkateswara Hi-Tech Engineering College                      |
| 40                 | Thenmozhi T       | I | Debugging at Hindustan Institute of Technology                                 |
| 41                 | Srikamalesh S     | I | Debugging at Hindustan Institute of Technology                                 |
| 42                 | Kavya K           | I | Mr & Ms Cybernova at Sri Krishna College of Engineering & Technology           |
| 43                 | Magudeeswaran C   | I | Gaming – I am a Militan at Sri Shakthi Institute of Engineering and Technology |
| 44                 | Divya R           | I | Speech at SNS College of Technology                                            |
| 45                 | Kiruba Lakshmi T  | I | Shot Put at Kumaraguru College of Technology                                   |
| <b>2016 - 2017</b> |                   |   |                                                                                |
| 1                  | Hariprasad.S      | I | Athlete at Kumaraguru College of Technology                                    |
| 2                  | Abinaya.S         | I | 100 mts at Kumaraguru College of Technology                                    |
| 3                  | Haritha K Sankari | I | Googo Surf at SNS College of Technology                                        |
| 4                  | Kaviya Priya S    | I | Paper Presentation at SNS College of Engineering                               |
| 5                  | Kaviya Priya S    | I | Poster Presentation at Hindusthan Institute of Technology                      |
| 6                  | Kaviya Priya S    | I | Postal Design at Dr.NGP Institute of Technology                                |
| 7                  | Precila A         | I | Paper Presentation at Dr.NGP Institute of Technology                           |
| 8                  | Kishore M         | I | Paper Presentation at Dr.NGP Institute of Technology                           |
| 9                  | Kavya K           | I | Photography at Tamilnadu College of Engineering                                |
| 10                 | Gunapathi S       | I | SKIT at SNS College of Technology                                              |
| 11                 | Karthick Raja K   | I | SKIT at SNS College of Technology                                              |
| 12                 | Henny Yashmi R S  | I | SKIT at SNS College of Technology                                              |
| 13                 | Balaji Raju M     | I | SKIT at SNS College of Technology                                              |
| 14                 | Kavya K           | I | Just a Minute at SNS College of Technology                                     |
| 15                 | Madhu Rekha S     | I | Connexions at Maharaja Engineering College                                     |
| 16                 | Mohana Priya G K  | I | Connexions at Maharaja Engineering College                                     |

|    |                  |   |                                                                           |
|----|------------------|---|---------------------------------------------------------------------------|
| 17 | Prabhakaran M    | I | Paper Presentation at Aishwarya College of Engineering and Technology     |
| 18 | Prabhakaran M    | I | Marketing at Aishwarya College of Engineering and Technology              |
| 19 | Kaviya Priya S   | I | Poster Presentation at Easa College of Engineering and Technology         |
| 20 | Kavya K          | I | Debugging at Easa College of Engineering and Technology                   |
| 21 | Sri Manikandan B | I | Ship Wreck at Coimbatore Institute of Technology                          |
| 22 | Arthi T          | I | Paper Presentation at Sri Shakthi Institute of Engineering and Technology |
| 23 | Aparna R         | I | Paper Presentation at Sri Shakthi Institute of Engineering and Technology |
| 24 | Kamalesh S       | I | Smart Coders at Sri Shakthi Institute of Engineering and Technology       |
| 25 | Nishanth K R     | I | Smart Coders at Sri Shakthi Institute of Engineering and Technology       |
| 26 | Boopathi G       | I | Paper Presentation at M.Kumarasamy College of Engineering                 |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

| S.No               | Event<br>( Seminars/<br>Conferences/<br>Workshops) | Title                     | Duration | Sources<br>of funds | Participants |
|--------------------|----------------------------------------------------|---------------------------|----------|---------------------|--------------|
| <b>2012 - 2013</b> |                                                    |                           |          |                     |              |
| 1                  | Hands on Training                                  | NS2                       | 1 day    | SNSCT               | 98           |
| <b>2013-2014</b>   |                                                    |                           |          |                     |              |
| 2                  | Guest Lecture                                      | Data Structures           | 1 day    | SNSCT               | 119          |
| 3                  | Guest Lecture                                      | Grid Computing            | 1 day    | SNSCT               | 65           |
| 4                  | Guest Lecture                                      | Linux Systems Environment | 1 day    | SNSCT               | 35           |
| 5                  | Guest Lecture                                      | Networking                | 1 day    | SNSCT               | 263          |

|                    |                        |                                                                               |        |       |     |
|--------------------|------------------------|-------------------------------------------------------------------------------|--------|-------|-----|
| 6                  | Guest Lecture          | Research Initiatives                                                          | 1 day  | SNSCT | 33  |
| 7                  | Guest Lecture          | Skill Enhancement                                                             | 1 day  | SNSCT | 118 |
| 8                  | Seminar                | Cloud Computing                                                               | 1 day  | SNSCT | 71  |
| 9                  | Seminar                | Web Technology                                                                | 1 day  | SNSCT | 133 |
| 10                 | Seminar                | Ethical Hacking                                                               | 1 day  | SNSCT | 121 |
| 11                 | Workshop               | Android System                                                                | 2 days | SNSCT | 122 |
| 12                 | Seminar                | Java                                                                          | 1 day  | SNSCT | 126 |
| <b>2014 - 2015</b> |                        |                                                                               |        |       |     |
| 13                 | International Seminar  | Andes Embedded Processor: IoT and Wearable Technologies & Big Data Processing | 1 day  | SNSCT | 341 |
| 14                 | Computer Skill Program | Computer Skills Upgradation for Police Personnel                              | 6 day  | SNSCT | 300 |
| <b>2015 - 2016</b> |                        |                                                                               |        |       |     |
| 15                 | International Seminar  | Enhancing Research Excellence                                                 | 1 day  | SNSCT | 32  |
| 16                 | International Seminar  | Research Trends and Opportunities in Internet-of-Things                       | 1 day  | SNSCT | 150 |
| 17                 | Workshop               | Web Designing                                                                 | 1 day  | SNSCT | 186 |
| 18                 | Workshop               | Animatricks                                                                   | 2 day  | SNSCT | 116 |
| 19                 | Workshop               | Android App Development Using Phone Gap                                       | 1 day  | SNSCT | 84  |
| 20                 | Hands on Training      | Contest - Maitre de code                                                      | 1 day  | SNSCT | 183 |
| 21                 | Hands on Training      | Contest - Photoshop                                                           | 1 day  | SNSCT | 100 |
| 22                 | Workshop               | Corporate Etiquette                                                           | 1 day  | SNSCT | 94  |
| 23                 | International Seminar  | IOT - Smart City Perspective                                                  | 1 day  | SNSCT | 120 |
| 24                 | Workshop               | Visual Effects                                                                | 1 day  | SNSCT | 82  |
| 25                 | Workshop               | Into the Cloud                                                                | 1 day  | SNSCT | 130 |
| 26                 | Events                 | Technical Events                                                              | 1 day  | SNSCT | 90  |
| <b>2016 - 2017</b> |                        |                                                                               |        |       |     |



|    |                   |                                   |       |       |     |
|----|-------------------|-----------------------------------|-------|-------|-----|
| 27 | Workshop          | Robot Premier League              | 2 day | SNSCT | 240 |
| 28 | Workshop          | Web Dunia-PHP Web Frameworks      | 1 day | SNSCT | 151 |
| 29 | Hands on Training | Cyber Security                    | 1 day | SNSCT | 105 |
| 30 | Workshop          | Python and R Programming Language | 2 day | SNSCT | 75  |
| 31 | Workshop          | Game Arc                          | 1 day | SNSCT | 206 |
| 32 | Seminar           | Career Edge                       | 1 day | SNSCT | 53  |
| 33 | Workshop          | Ethical Hacking                   | 1 day | SNSCT | 52  |

| S. NO            | Event<br>( Seminars/<br>Conferences/Workshops) | Title                                                                               | Duration | Sources<br>of funds | Participants | Amount<br>Received<br>(Rs.) |
|------------------|------------------------------------------------|-------------------------------------------------------------------------------------|----------|---------------------|--------------|-----------------------------|
| <b>2012-2013</b> |                                                |                                                                                     |          |                     |              |                             |
| 1                | Workshop                                       | Emerging issues in Wireless Communication Network                                   | 2        | DRDO                | 30           | 30,000                      |
| 2                | Seminar                                        | Security Issues in Cyber Crime and Crime Analysis using Data Mining                 | 1        | DRDO                | 46           | 35,000                      |
| 3                | Workshop                                       | Emerging Trends & Issues in Cloud with Green Computing                              | 2        | CSIR                | 32           | 30,000                      |
| 4                | Faculty Development and Training Programme     | Mobile and Pervasive Computing                                                      | 6        | Anna University     | 25           | 70,000                      |
| 5                | Faculty Development Programme                  | Green Computing and Web Services                                                    | 6        | AICTE               | 25           | 5,00,000                    |
| 6                | Seminar                                        | Role of Engineering and Technology for Women's Development                          | 1        | AICTE               | 25           | 75,000                      |
| 7                | Faculty Development and Training               | C # and .NET Frame Work                                                             | 6        | Anna University     | 25           | 80,000                      |
| <b>2013-2014</b> |                                                |                                                                                     |          |                     |              |                             |
| 8                | Faculty Development Programme                  | Open Source Software Development and Its Engineering Fields for Disaster Management | 6        | AICTE               | 25           | 4,00,000                    |
| 9                | Faculty Development and Training               | CS 2021 - Multicore Programming                                                     | 6        | Anna University     | 25           | 90,000                      |
| 10               | Faculty Development and Training               | CS 6301 - Programming & Data Structures II                                          | 6        | Anna University     | 25           | 60,000                      |
| 11               | Symposium                                      | Issues and Challenges in Big Data Analysis                                          | 1        | DRDO                | 48           | 40,000                      |
| 12               | Faculty Development and Training               | CS6801 - Multi - Core Architectures and Programming                                 | 6        | Anna University     | 25           | Nil                         |

## 21. Student profile course-wise:

| Name of the               | Applications | Selected |        | Pass percentage |        |
|---------------------------|--------------|----------|--------|-----------------|--------|
| Course                    |              |          |        |                 |        |
| (refer question no. 2)    | received     | Male     | Female | Male            | Female |
| UG                        |              |          |        |                 |        |
| Batch 2009-13 (B.E – CSE) | NA           | 55       | 64     | 83.6            | 100    |
| Batch 2010-14 (B.E – CSE) |              | 56       | 86     | 94.6            | 68.6   |
| Batch 2011-15 (B.E – CSE) |              | 52       | 66     | 73              | 96.7   |
| Batch 2012-16 (B.E – CSE) |              | 54       | 81     | 86              | 94     |
| PG (CSE)                  |              |          |        |                 |        |
| Batch 2011-13 (M.E – CSE) | NA           | 4        | 14     | 100             | 100    |
| Batch 2012-14 (M.E – CSE) |              | 6        | 12     | 66.7            | 100    |
| Batch 2013-15 (M.E – CSE) |              | 4        | 14     | 100             | 100    |
| Batch 2014-16 (M.E – CSE) |              | 5        | 13     | 100             | 100    |
| PG (SE)                   |              |          |        |                 |        |
| Batch 2011-13 (M.E – SE)  | NA           | 4        | 14     | 50              | 100    |
| Batch 2012-14 (M.E – SE)  |              | 10       | 8      | 90              | 100    |
| Batch 2013-15 (M.E – SE)  |              | 4        | 12     | 100             | 100    |
| Batch 2014-16 (M.E – SE)  |              | 3        | 5      | 100             | 100    |

## 22. Diversity of Students

| Name of the Course | Year    | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| B.E CSE            | 2012-16 | -                              | 98.5                         | 1.5                             | -                                  |
|                    | 2013-17 | -                              | 99.3                         | 0.6                             | -                                  |
|                    | 2014-18 | -                              | 100                          | -                               | -                                  |
|                    | 2015-19 | -                              | 100                          | -                               | -                                  |
| M.E CSE            | 2012-14 | -                              | 100                          | -                               | -                                  |
|                    | 2013-15 | -                              | 94.4                         | 5.6                             | -                                  |
|                    | 2014-16 | -                              | 94.4                         | 5.6                             | -                                  |
|                    | 2015-17 | -                              | 100                          | -                               | -                                  |
|                    | 2016-18 | -                              | 100                          | -                               | -                                  |
| M.E SE             | 2012-14 | -                              | 100                          | -                               | -                                  |
|                    | 2013-15 | 6.25                           | 93.75                        | -                               | -                                  |
|                    | 2014-16 | 12.5                           | 87.5                         | -                               | -                                  |

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

| S.No | Year of Passed out | Name of the Competitive Exam         | No. of students cleared |         |
|------|--------------------|--------------------------------------|-------------------------|---------|
|      |                    |                                      | Appeared                | Cleared |
| 1    | 2012               | GATE, TANCET                         | 16                      | 6       |
| 2    | 2013               | GATE, TANCET                         | 50                      | 32      |
| 3    | 2014               | GATE, TANCET                         | 55                      | 38      |
| 4    | 2015               | GATE, TANCET, MAT, ICICI BANK, TNPSC | 24                      | 9       |

**24. Student progression**

| Student Progression                    | Percentage against enrolled |       |       |       |
|----------------------------------------|-----------------------------|-------|-------|-------|
|                                        | 2013                        | 2014  | 2015  | 2016  |
| <b>UG to PG</b>                        | 6.06                        | 7.74  | 5.38  | 6.76  |
| <b>PG to Ph.D.</b>                     | -                           | -     | 2.85  | 7.69  |
| <b>Employed</b>                        |                             |       |       |       |
| • <b>Campus selection</b>              | 37.23                       | 57.14 | 77.39 | 80.48 |
| • <b>Other than campus recruitment</b> | 9.57                        | 27.47 | 22.61 | 19.52 |
| <b>Entrepreneurs</b>                   | -                           | 1.41  | 3.07  | 1.5   |

**25. Diversity of staff**

| UG                                        |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | 48.7    | 51      | 47.6    | 38.6    | 34.7    |
| from other universities within the State  | 51.2    | 48.9    | 52.3    | 61.3    | 65.2    |
| from other universities from other States | -       | -       | -       | -       | -       |
| PG                                        |         |         |         |         |         |
| of the same parent university             | 100     | 100     | 100     | 100     | 100     |
| from other universities within the State  | -       | -       | -       | -       | -       |
| from other universities from other States | -       | -       | -       | -       | -       |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

| S.No | Year of Award | No. of Ph.D. |
|------|---------------|--------------|
| 1    | 2012          | 1            |
| 2    | 2013          | 1            |
| 3    | 2015          | 1            |
| 4    | 2016          | 5            |

**27. Present details about infrastructural facilities**

**a) Library**

Total No. of books available in department library is 876. Apart from this project reports of all the students are maintained for reference purpose.

| S.No | Academic Year | Book Titles (in nos.) | Book Volumes (in nos.) |
|------|---------------|-----------------------|------------------------|
| 1    | 2012 – 13     | 600                   | 626                    |
| 2    | 2013 – 14     | 619                   | 645                    |
| 3    | 2014 – 15     | 692                   | 723                    |
| 4    | 2015 – 16     | 707                   | 785                    |
| 5    | 2016 - 17     | 707                   | 785                    |

**b) Internet facilities for staff and students**

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in all labs and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel.

**c) Total number of class rooms : 6**

| S. No | Class Room No.                     | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|-------|------------------------------------|-------------------------------|--------------------|-------------------------------------------------------------|
| 1     | A101, A102, A103, A104, A105, A106 | 85                            | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 2     | A301, A302, A303                   | 85                            | Exclusive          | Black board, Tables, Chair                                  |
| 3     | A209, A210, A211, A212             | 57                            | Exclusive          | Black board, Tables, Chair                                  |
| 4     | A206, A207                         | 42.5                          | Exclusive          | Black board, Tables, Chair                                  |

**d) Class rooms with ICT facility: 6\***

| S. No | Class Room No.                     | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|-------|------------------------------------|-------------------------------|--------------------|-------------------------------------------------------------|
| 1     | A101, A102, A103, A104, A105, A106 | 85                            | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |

\*The Utilization of the ICT facilities is closely monitored by HoD and Senior Faculty members to ensure fair and effective utilization of these resources.

**e) Students' laboratories :**

| S.No | Lab No.             | Area in Sq.m | Name of the Lab              |
|------|---------------------|--------------|------------------------------|
| 1    | A001, 001A, 002,003 | 200          | Open Source and Internet Lab |
| 2    | A004                | 85           | Multimedia Lab               |
| 3    | A005                | 85           | Network Lab                  |
| 4    | A006                | 85           | Web Technology Lab           |
| 5    | A201, 202,203       | 200          | Compiler Design Lab          |
| 6    | A204                | 170          | Database Management Lab      |
| 7    | F002,003            | 200          | Common Computer Centre       |
| 8    | C007,008,009,010    | 200          | Research Centre & Cloud Lab  |

**f) Research laboratories :**

| S.No | Year of Establishment | Name of the Lab             | Description of the Equipments |
|------|-----------------------|-----------------------------|-------------------------------|
| 1    | 2012 – 13             | Research Centre & Cloud Lab | Computers                     |

**28. Number of students of the department getting financial assistance from College.**

Total Number of Students : 1

Total Amount : 20,000

| Academic Year | Government        |              | Management        |        |
|---------------|-------------------|--------------|-------------------|--------|
|               | Student benefited | Amount (Rs.) | Student benefited | Amount |
| 2012 - 13     | 37                | 1, 99,319    | -                 | -      |
| 2013 – 14     | 45                | 2, 42,415    | -                 | -      |
| 2014 – 15     | 60                | 2,89,670     | 1                 | 20,000 |
| 2015 – 16     | 90                | 5,17,900     | -                 | -      |
| 2016 - 17     | 110               | -            | -                 | -      |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes. Need assessment is done before the development of new programs. The following is the methodology:

- Ideas and suggestions from Employers, Alumni and Industries are obtained.
- Programmes offered by other foreign Universities and interaction with professors of IITs, NITs and Research Centers are referred to for Benchmarking curriculum.
- Stakeholder's inputs are taken when framing the curriculum and syllabi for a new programme and are placed in the BoS and Academic Council for approval.

**30. Does the department obtain feedback from**

**a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes. The assessment and feedback are got through

- Class committee meeting
- Course Committee Meeting
- Time Table committee
- Internal Audit Committee

Class Committee Meeting:

This is carried out thrice in a semester. A class committee meeting consists of faculty members and students. It is conducted by a chair person who is not a teacher of that class. It ensures the improvement of class performance. Students will have direct interaction with chairperson so that feedback is got regarding all aspects.

Course Committee Meeting:

A Course Committee meeting consists of faculty members handling the same course for different classes/departments. This is conducted by a course coordinator. Syllabus coverage, teaching and learning process, student's performance in continuous assessments, slow learners activities.

Time Table Committee:

A time table committee consists of time table coordinator for college and time table coordinators of department representing the department. They met once in a semester. They ensure the course allocation according to AICTE norms, course credit, allotted hours.

Internal Audit Committee:

This committee ensures the correctness of academic documents.

Feedback was also got from students at the end of each semester regarding the goodness of faculty and syllabus.

Their suggestions regarding courses and new courses are considered.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

| S. No | Type of Stake holders | Mode of interaction<br>(Meeting/oral communication/telephonic/discussion /Feedbacks/ Class Committee / Any other means ) | Frequency of the meeting | No. of meeting Conducted |         |         |         |         |
|-------|-----------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|---------|---------|---------|---------|
|       |                       |                                                                                                                          |                          | 2012-13                  | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| 1     | Student               | Discussion                                                                                                               | 1 per semester           | 2                        | 2       | 2       | 2       | 1       |
|       |                       | Feedbacks                                                                                                                | 3 per semester           | 2                        | 2       | 6       | 6       | 6       |
|       |                       | Class Committee                                                                                                          | 3 per semester           | 3                        | 3       | 4       | 4       | 4       |

**c. Alumni and employers on the programmes and what is the response of the department to the same?**

Explain how the department utilizes the stakeholders feedback on teaching learning evaluation

| S. No | Type of Stake holders | Mode of interaction<br>(Meeting/oral communication/telephonic/discussion /Feedbacks/ Class Committee / Any other means) | Frequency of the meeting | No of meeting Conducted |         |         |         |         |
|-------|-----------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------|---------|---------|---------|---------|
|       |                       |                                                                                                                         |                          | 2012-13                 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| 1     | Alumni                | BoS Meeting                                                                                                             | Yearly Once              | -                       | 1       | 1       | 1       | 1       |
|       |                       | Governing Council                                                                                                       | Yearly Once              | 1                       | 1       | 1       | 1       | 1       |
|       |                       | NAAC                                                                                                                    | During Visit             | 1                       | -       | -       | -       | -       |
|       |                       | NBC                                                                                                                     | During Visit             | -                       | -       | 1       | -       | -       |
| 2     | Employer              | BoS Meeting                                                                                                             | Yearly Once              | -                       | 1       | 1       | 1       | 1       |
|       |                       | MRM                                                                                                                     | 1 per semester           | 2                       | 2       | 2       | 2       | 1       |

Feedback is got from faculty members during faculty meeting or personal discussion with HoD. Their suggestions regarding courses and new courses are considered.

Feedback is got from Alumni is got once in a year during alumni meeting. Then the suggestions are analyzed and presented to board of studies.

Feedback is got from employers so as to assure whether department curriculum meets industry needs. New technologies are also gathered from them

Feedback from parents is got during parents- teachers meeting giving our progress in attaining academic goals.

Feedbacks from Industrialists are collected during Board of studies meeting, guest lectures, workshops and seminars.

Feedback from Academic peers is obtained during Board of studies meeting in relevance to outcome based education, practical skills, technical knowledge and career aspects.

**31. List the distinguished alumni of the department (maximum 10)**

| S.No | Name of the Alumni                 | Batch     | Current Position               | Company                                                   |
|------|------------------------------------|-----------|--------------------------------|-----------------------------------------------------------|
| 1    | Abdul Basith                       | 2009-2013 | Software Engineer              | Accenture Chennai                                         |
| 2    | Dhilipsiva                         | 2007-2011 | Tech Lead,                     | Full-Stack & DevOps<br>Bangalore                          |
| 3    | Thirunavukarasu<br>Balasubramaniam | 2009-2013 | Research Scholar               | Queensland University of<br>Technology (QUT)<br>Australia |
| 4    | Koushik<br>Krishnamoorthi          | 2008-2012 | Senior Software<br>Engineer    | HCL Technologies<br>Bengaluru                             |
| 5    | Sowbaranika S                      | 2009-2013 | SAP BW & ABAP<br>Consultant    | Tech Mahindra Limited<br>Chennai                          |
| 6    | Kavi arasu                         | 2007-2011 | Site Developer and<br>Designer | Wordpress<br>United Kingdom                               |
| 7    | Vivek Ravi                         | 2010-2014 | Software Engineer              | L&T Infotech, Chennai                                     |
| 8    | Vivek Zacharias                    | 2008-2012 | Software Engineer              | Cognizant Technology<br>Solutions Coimbatore              |
| 9    | Rajeevan S                         | 2010-2014 | Associate Software<br>Engineer | Mphasis, Chennai                                          |
| 10   | Rashmi Murali                      | 2009-2013 | Recruitment Executive          | Mindlance, Bengaluru                                      |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| S. No.             | Name of Event | Title                                  | Date       | External Experts                                                                                   | No. of<br>Beneficiary |
|--------------------|---------------|----------------------------------------|------------|----------------------------------------------------------------------------------------------------|-----------------------|
| <b>2012 - 2013</b> |               |                                        |            |                                                                                                    |                       |
| 1                  | Seminar       | Formal Language and Automata Theory    | 14.09.2012 | Prof.B.Lakshmipathy, Anna University, Coimbatore.                                                  | 90                    |
| 2                  | Seminar       | Data structures                        | 15.09.2012 | Prof.Purusothaman, GCT, Coimbatore.                                                                | 120                   |
| 3                  | Seminar       | Disaster Management                    | 15.09.2012 | Prof . M. Nageshwara Gupta<br>United Institute of Technology,<br>Coimbatore                        | 75                    |
| 4                  | Seminar       | Wireless Networks                      | 20.09.2012 | Prof.K.R.Jothi, Sri Ramakrishna<br>Institute of Technology,<br>Coimbatore.                         | 36                    |
| 5                  | Guest Lecture | Opportunities for Engineering Students | 05.10.2012 | Mr.Quin Singh Janner,<br>Senior Analyst for Recruitment,<br>Accenture India Pvt.,Ltd,<br>Bangalore | 50                    |
| 6                  | Seminar       | Recruitment Process in IT Industries   | 06.10.2012 | P.Sivakumar, Deputy Manager,<br>Robert Bosch, Coimbatore                                           | 48                    |
| 7                  | Seminar       | Routing Protocols                      | 03.01.2013 | Dr.N.Karthikeyan, Prof &                                                                           | 30                    |



|                    |               |                                                     |            |                                                                                                                       |     |
|--------------------|---------------|-----------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------|-----|
|                    |               |                                                     |            | Head/MCA, SNSCE, Coimbatore.                                                                                          |     |
| 8                  | Seminar       | MANET                                               | 03.01.2013 | Prof.Sindhiya, Prof/CSE, KCT, Coimbatore                                                                              | 50  |
| 9                  | Seminar       | Pervasive Computing                                 | 04.01.2013 | Prof . M. Nageshwara Gupta<br>United Institute of Technology,<br>Coimbatore                                           | 30  |
| 10                 | Seminar       | M to M Technology                                   | 05.01.2013 | Dr.N.Karthikeyan, Prof &<br>Head/IT,Sri Krishna College of<br>Technology, Coimbatore.                                 | 30  |
| 11                 | Seminar       | WAP                                                 | 05.01.2013 | Dr.M.Sadish Sendil, Prof &<br>Head/CSE,SCAD Inst of Tech,<br>Coimbatore.                                              | 90  |
| 12                 | Seminar       | WAP                                                 | 07.01.2013 | Prof.M.Mohamed Musthafa, Prof<br>& Head/CSE, Al-Ameen Engg.<br>College, Erode                                         | 50  |
| 13                 | Seminar       | Pervasive Computing                                 | 08.01.2013 | Dr.M.L.Valarmathi, GCT,<br>Coimbatore                                                                                 | 30  |
| 14                 | Seminar       | MAC                                                 | 09.01.2013 | Dr.B.Kalavathi, Prof & Head/CSE<br>KSR IET, Tiruchengode                                                              | 30  |
| 15                 | Seminar       | Mobile IP, Mobile<br>TCP,DHCP,GPRS                  | 09.01.2013 | Prof.V.Venkatesa Kumar, AU<br>Regional Centre, Coimbatore                                                             | 28  |
| 16                 | Seminar       | Career Development<br>Programme                     | 24.01.2013 | Dr.N.Karthikeyan,Prof &<br>Head/MCA,SNSCE,Coimbatore.                                                                 | 50  |
| 17                 | Seminar       | Multimedia                                          | 28.01.2013 | R. Sathiyarayanan, APEX<br>Multimedia, Peelamedu,<br>Coimbatore                                                       | 36  |
| <b>2013 - 2014</b> |               |                                                     |            |                                                                                                                       |     |
| 18                 | Seminar       | Cloud Computing                                     | 24.01.2014 | Er. Bharathi Selvaraj, Cloud<br>Engineer, Tech Mahendra,<br>Bangalore.                                                | 71  |
| 19                 | Seminar       | Web Development<br>using HTML5                      | 01.02.2014 | Mr. K. Saravanan, Software<br>Engineer, Vaneuburg Software<br>Pvt. Ltd.,KCT Tech Park,<br>Saravanampatti, Coimbatore  | 133 |
| 20                 | Seminar       | Ethical Hacking                                     | 21.02.2014 | Mr.P.Dinesh<br>Managing Director, HackUp<br>Technology, Coimbatore.                                                   | 121 |
| 21                 | Workshop      | Android System                                      | 19.03.2014 | Mr. S. Sudharsan, CEO,<br>Amsroid Technologies,<br>Coimbatore-35.                                                     | 122 |
| 22                 | Seminar       | Java                                                | 29.03.2014 | Mr.N.Sivakumar<br>Senior Consultant,<br>IBM India Pvt Ltd,<br>Bangalore-560029.                                       | 126 |
| 23                 | Seminar       | Problem<br>Identification and<br>Solution Formation | 05.04.2014 | Dr. N.Karthikeyan,<br>Dean-Academic / S&H, SNSCE,<br>Coimbatore                                                       | 32  |
| <b>2014 – 2015</b> |               |                                                     |            |                                                                                                                       |     |
| 24                 | Guest Lecture | Market Demand<br>Analysis                           | 17.07.2014 | Dr. M. Kalpana<br>Associate Professor,<br>Department of Humanities,<br>PSG College of Technology,<br>Coimbatore - 04. | 122 |

|    |                   |                                                          |            |                                                                                                                                                     |     |
|----|-------------------|----------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 25 | Guest Lecture     | Interactive Design                                       | 18.07.2014 | Prof. Viswanath Sangaranarayanan, Assistant Professor/Assistant Manager Examination, Faculty of Computing Botho University, Botswana, South Africa. | 90  |
| 26 | Guest Lecture     | Employability in IT Sector                               | 18.07.2014 | Mr.Suresh Venkatasamy, Managing Director, Vaanam Technologies, Private limited, Coimbatore                                                          | 32  |
| 27 | Guest Lecture     | Oracle E-Business Suite in ERP                           | 25.07.2014 | Manoj Prabhakaran, Consultant, HCL Technologies, Chennai.                                                                                           | 255 |
| 28 | Seminar           | Recent Trends in IT                                      | 26.07.2014 | Er.Bharathi Selvaraj, Cloud Engineer, Tech Mahindra, Bangalore.                                                                                     | 108 |
| 29 | Hands on Training | Multimedia                                               | 26.07.2014 | Mr.S.Thiyagarajan Operations Head, Image - Institute of Multimedia Arts & Graphic Effects, Image Creative Educations, Coimbatore-18.                | 114 |
| 30 | Seminar           | Emerging Technologies and Evolution in Software Industry | 02.08.2014 | B.Praveen Balakrishnan, Senior Associate Projects, Cognizant Technology Solution, Coimbatore.                                                       | 112 |
| 31 | Seminar           | Multimedia Tools & its Applications                      | 19.08.2014 | Ms. R.Sapna Agarwal, Branch Head, Apex Multimedia Pvt Ltd., Peelamedu, Coimbatore.                                                                  | 144 |
| 32 | Seminar           | The Joyful Journey of Programming                        | 23.08.2014 | Mr.Ganesh Kumar Ponnuswamy, Application Engineer, International Flavours and Fragrances, Chennai.                                                   | 151 |
| 33 | Seminar           | Big Data Analytics and Tools                             | 26.08.2014 | Mr. S.Sathiyam, Project Leader M.Priya, Developer, Elysium Technologies, Coimbatore.                                                                | 54  |
| 34 | Seminar           | Problem Finding and Inventiveness of Solutions           | 28.08.2014 | Dr. M.Hanuman Thappa, Professor and Director, Department of Computer Application, Bangalore University, Bangalore.                                  | 31  |
| 35 | Seminar           | Open Source Tools & Technologies                         | 15.09.2014 | Dr.Manjaiah.D.H, Professor and Chairman of BoS, Department of CSE, Mangalore University                                                             | 26  |
| 36 | Seminar           | Higher studies and opportunities in Abroad               | 17.09.2014 | Dr.Sigurd Meldal, Director, San José State University, California, USA.                                                                             | 176 |
| 37 | Seminar           | Empowering Skills for Placement                          | 20.09.2014 | Mr.K.S. Rajaprakash Center Head (CH), NIIT, Coimbatore.                                                                                             | 142 |
| 38 | Seminar           | Hadoop and Big Data Analytic                             | 24.09.2014 | Mr.R.Prasanna, Technical Manager, Mr.A.Nowshath, Research Development Executive Poras Technologies, Coimbatore                                      | 37  |
| 39 | Workshop          | Web Application                                          | 25.09.2014 | Mr.R.Dhamotharakannan,                                                                                                                              | 100 |

|    |                       |                                                                          |                         |                                                                                                                                     |     |
|----|-----------------------|--------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----|
|    |                       | development using HTML5, CSS3, Java Script, PHP and MYSQL                |                         | Project Manager and Technical Trainer, VELMOC Foundation, Chennai.                                                                  |     |
| 40 | Seminar               | Object Oriented Programming                                              | 30.09.2014              | Mr. Ganesh Kumar Ponnuswamy, Application Engineer, International Flavors and Fragrances, Chennai                                    | 142 |
| 41 | Seminar               | Career Option in GATE                                                    | 09.01.2015              | Mr. N.V.Subramaniyan, Director of T.I.M.E, Coimbatore.                                                                              | 150 |
| 42 | Seminar               | IT Powered Automation                                                    | 28.01.2015              | Mr. V.Senthil, B.E(ECE),PgDOR., Chairman & Management Director, Greenland Intelligent Systems, Kochi, Kerala.                       | 122 |
| 43 | Seminar               | How to Crack the GATE Exam                                               | 31.01.2015              | Ms. M .Mani Megala, Aptitude Trainer, Thriumphant Institute of Management Education.                                                | 21  |
| 44 | Seminar               | Cloud Integration with Cloud IoT Paradigm                                | 06.02.2015              | Dr.K.Vishnu Kumar Professor & Head Department of Computer Science and Engineering Jansons Institute of Technology, Coimbatore.      | 150 |
| 45 | Extension Activity    | Women Empowerment & Women Law                                            | 07.03.2015              | Ms.Aandal Priyadharshini, Director Doordharshan, Coimbatore                                                                         | 278 |
| 46 | Seminar               | Simulation Tool- NS2                                                     | 11.03.2015              | Mr.Lakshmi Narayanan, Livewir, Coimbatore                                                                                           | 26  |
| 47 | Seminar               | Software Quality Assurance & Recent Trends in Software Development in IT | 13.03.2015              | Vivek Zacharias, Software Engineer, HCL Technologies, Chennai                                                                       | 60  |
| 48 | Seminar               | Android Application Development                                          | 17.03.2015 & 18.03.2015 | Shyam Sundar Deputy Manager Lafarge Holicim Ltd, Coimbatore                                                                         | 80  |
| 49 | Guest Lecture         | Web Technology                                                           | 23.03.2015              | Mr.P.Prakash, Assistant Professor (SG), Department of CSE, School of Engineering, Amrita Vishwa Vidyapeetham University, Coimbatore | 66  |
| 50 | Seminar               | Virtualization & Virtual Machine Networking                              | 27.03.2015              | Mr.J.RathinaRaja, Lecturer/IT, NIT, Karnataka                                                                                       | 120 |
| 51 | International Seminar | Campus to Corporate                                                      | 27.03.2015              | Captain T.Shashidharan Deputy General Manager, HR & Administrative, Suhail Bahwan Automotive Group, Sultanate of Oman               | 130 |
| 52 | Seminar               | Expectations on Industrial Needs                                         | 27.03.2015              | Mrs.Alphina Nancy, Senior Software Engineer, WIPRO Technologies Ltd., Chennai.                                                      | 120 |
| 53 | Extension Activity    | Swine Flu Awareness Programme                                            | 28.03.2015              | Thiru. P. Rajkumar ( AIADMK ) Mayor of Coimbatore City                                                                              | 267 |

|                    |                          |                                                              |                               |                                                                                                                                                                                     |     |
|--------------------|--------------------------|--------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                    |                          |                                                              |                               | Municipal Corporation<br>Door No-83, Raja Street,<br>Ganapathy, Coimbatore- 641<br>006.&<br>Dr.K.Vijayakarhikeyan, I.A.S.<br>Commissioner, Coimbatore City<br>Municipal Corporation |     |
| 54                 | Guest Lecture            | Operating Systems<br>Concepts                                | 30.03.2015                    | Dr.T.Rajendran<br>Professor & Head<br>Department of CSE & IT<br>Chettinad College of Engineering<br>& Technology, Karur                                                             | 145 |
| 55                 | Guest Lecture            | Design and Analysis<br>of Algorithms                         | 31.03.2015<br>&<br>01.04.2015 | Mr.S.Loganathan,<br>Managing Director,<br>Falcon Square Technologies,<br>Coimbatore                                                                                                 | 80  |
| <b>2015 – 2016</b> |                          |                                                              |                               |                                                                                                                                                                                     |     |
| 56                 | Seminar                  | How to improve the<br>technical skills to<br>face interviews | 04.07.2015                    | Mr.N.Dinesh B.E,<br>Manager,<br>AMPHISOFT Technologies,<br>Coimbatore.                                                                                                              | 89  |
| 57                 | International<br>Seminar | Enhancement in<br>Research and<br>Scientific Writing         | 17.07.2015                    | Dr.Anand Paul<br>Director, Connected Computing<br>and Media Processing Lab,<br>Professor, The School of CSE,<br>Kyunpook National University,<br>South Korea.                       | 40  |
| 58                 | Seminar                  | Industry Focused<br>Web Services                             | 17.07.2015                    | Mr. Madhu Subram<br>Technical Leader<br>Mphasis on HP, Chennai.                                                                                                                     | 150 |
| 59                 | Seminar                  | Python Programming                                           | 23.07.2015                    | M. Eshwaran,<br>Team Leader<br>Poras Technologies, Coimbatore.                                                                                                                      | 130 |
| 60                 | Guest Lecture            | PC Hardware and<br>Trouble Shooting                          | 04.07.2015                    | Mr. J.Ashley Jabasing,<br>Manager, LIVE WIRE India Pvt.<br>Ltd., Coimbatore.                                                                                                        | 183 |
| 61                 | Guest Lecture            | Cost Benefit Analysis                                        | 05.08.2015                    | Dr. M.Kalpana,<br>ASP/ Department of Humanities,<br>PSG College of Technology,<br>Coimbatore – 641004.                                                                              | 130 |
| 62                 | Guest Lecture            | Generic &<br>Concurrent<br>Programming                       | 07.08.2015                    | Mr.J.Rathinaraja,<br>AP/CSE, National Institute of<br>Technology, Mangalore,<br>Karnataka.                                                                                          | 150 |
| 63                 | Seminar                  | Cloud Networking                                             | 10.08.2015                    | Er.Bharathi Selvaraj<br>AWS Solution Architect<br>Amazon Webservices<br>Chennai.                                                                                                    | 150 |
| 64                 | Seminar                  | Ethical Hacking                                              | 10.08.2015                    | Mr. T.Vigneshwaran, Manager,<br>KaaShiv InfoTech, Coimbatore.                                                                                                                       | 192 |
| 65                 | International<br>Seminar | Job Opportunities and<br>Higher Studies in<br>Gulf Countries | 14.08.2015                    | Dr. S. Neelamani,<br>Senior Research Scientist,<br>Coastal Management Program,<br>Kuwait Institute for Scientific<br>Research, Kuwait.                                              | 150 |
| 66                 | Seminar                  | Networking Support                                           | 24.08.2015                    | Mr.Ganesh<br>Territory Technical Manager,<br>CMS Info Systems Pvt. Ltd.,<br>Chennai                                                                                                 | 150 |

|    |                      |                                                                                          |            |                                                                                                                                                                                                                                                                                                                                |     |
|----|----------------------|------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 67 | Workshop             | Wood Carving                                                                             | 25.08.2015 | Mrs.G.Muthulakshmi ,<br>Entrepreneur,<br>Coimbatore.                                                                                                                                                                                                                                                                           | 120 |
| 68 | Seminar              | Cancer Cells<br>Detection using<br>Image Processing<br>Technique”                        | 03.09.2015 | Dr.B.Padmapiya<br>Assistant Professor(SG)<br>Department of Bio Medical<br>Engineering<br>PSG College of Technology,<br>Coimbatore.                                                                                                                                                                                             | 130 |
| 69 | Seminar              | Joyful Journey of<br>Programming                                                         | 14.09.2015 | Mr.Ganesh Kumar Ponnusamy<br>Application Engineer<br>International Flavours and<br>Fragrances<br>Chennai                                                                                                                                                                                                                       | 142 |
| 70 | Seminar              | Effective Writing of<br>Research Paper                                                   | 15.09.2015 | Dr.N.Karthikeyan,<br>Professor & Dean,<br>Department of Science &<br>Humanities,<br>SNS College of Engineering,<br>Coimbatore.                                                                                                                                                                                                 | 162 |
| 71 | Hands on<br>Training | Network Simulator 2                                                                      | 19.09.2015 | Dr.K.Sangeetha,<br>Associate Professor/ CSE,<br>Kongu Engineering College,<br>Erode.                                                                                                                                                                                                                                           | 33  |
| 72 | Workshop             | Big Data Processing<br>using Machine<br>Learning Techniques                              | 23.09.2015 | Dr. Ashok Rao,<br>Former Head,<br>Network Project CEDT,<br>IISc Bangalore,<br>Guest Faculty, IIM Bangalore.                                                                                                                                                                                                                    | 68  |
| 73 | Seminar              | Y? for Hackers &<br>Designers                                                            | 28.09.2015 | Mr.S.Ramakrishnan, IoT<br>Specialist, Livewire<br>Technologies, Mr.S.Vijayakumar,<br>Senior Manager, Livewire<br>Technologies,<br>Mr.S.Rajaprakasham, Senior<br>Manager, Be Positive<br>Technologies, Mr.Ganesh Kumar<br>Ponnusamy, Infence Solutions,<br>Mr.S.Suddan, CEO,HR Cube,<br>Mr.Santhosh, Founder,<br>whileofone.com | 150 |
| 74 | Webinar              | Infosys Students<br>Foundation Program                                                   | 08.10.2015 | Mrs. K.N.Vani,<br>Principal,<br>ETA, Infosys, Mysore                                                                                                                                                                                                                                                                           | 50  |
| 75 | Guest Lecture        | Object Oriented<br>Programming                                                           | 09.10.2015 | Dr. P. Jayanthi,<br>ASP / CSE,<br>Kongu Engineering College,<br>Perundurai                                                                                                                                                                                                                                                     | 160 |
| 76 | Social Activity      | Hamare Bus Ki Bhaat<br>Hai                                                               | 15.10.2015 | Mr Shanmugasundaram ASM, Mr<br>Rajkumar,<br>Tata Motors Limited,<br>Coimbatore.                                                                                                                                                                                                                                                | 36  |
| 77 | Guest Lecture        | Scaling up of<br>Procedural way of<br>Programming into<br>Object Oriented<br>Programming | 16.10.2015 | Mr.V.Ayyanar,<br>Senior PHP Developer,<br>VCom InfoTech,<br>Coimbatore                                                                                                                                                                                                                                                         | 170 |
| 78 | Guest Lecture        | Undecidability in<br>Theory of<br>Computation                                            | 17.10.2015 | Dr.K.Umamaheswari<br>Professor<br>PSG college of Technology,<br>Coimbatore.                                                                                                                                                                                                                                                    | 141 |

|    |                       |                                                                  |            |                                                                                                                                |     |
|----|-----------------------|------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------|-----|
| 79 | Guest Lecture         | Enhancing new Technologies into Object Oriented Programming      | 19.10.2015 | Er.B.Padmavathi<br>Senior Test Analyst,<br>Cognizant Technology Solutions,<br>Coimbatore.                                      | 172 |
| 80 | Guest Lecture         | Software Engineering                                             | 20.10.2015 | Er.B.Saranya<br>Senior Test Analyst,<br>Cognizant Technology Solutions,<br>Coimbatore.                                         | 126 |
| 81 | Guest Lecture         | Higher Studies and Opportunities in International Universities   | 02.11.2015 | Mr. B. Thirunavukarasu,<br>Researcher, Singapore University<br>of Technology and Design,<br>Singapore                          | 34  |
| 82 | International Seminar | Recent Development and Emerging Trends in Research Methodology   | 07.01.2016 | Dr.Vijayaraghavan Viswanathan<br>Scientist & Researcher,<br>CERN-ARDENT,<br>Switzerland.                                       | 122 |
| 83 | Seminar               | Enterprise Application Deployment on Weblogic Application Server | 18.01.2016 | Mr.Murali Rangabojan<br>Weblogic Administrator<br>Tata Consultancy Services<br>Chennai.                                        | 124 |
| 84 | International Seminar | How to Structure or Formulate a Journal Paper                    | 20.01.2016 | Dr. Anand Paul Director, CCMP<br>Lab &Professor, School of CSE,<br>Kyungpook National University<br>(KNU), Daegu, South Korea. | 30  |
| 85 | Seminar               | Programming on PHP                                               | 23.01.2016 | Mr. Subramaniam Lakshmanan,<br>Project Manager,<br>AES Technologies India Pvt.<br>Ltd,Coimbatore.                              | 125 |
| 86 | Seminar               | Cloud Computing                                                  | 12.02.2016 | Mr.Karthi Easwaramoorthy,<br>Director,<br>Cloud Assert India,<br>Bangalore.                                                    | 107 |
| 87 | Guest Lecture         | Object Oriented Analysis and Design                              | 20.02.2016 | Dr. K. Umamaheswari<br>Professor/IT<br>PSG College of Technology,<br>Coimbatore                                                | 62  |
| 88 | Hands-on Training     | Unified Functional Testing                                       | 20.02.2016 | Mrs. R. Neelambikai<br>Assistant Consultant<br>Tata Consultancy Services<br>Chennai                                            | 30  |
| 89 | Guest Lecture         | Grid Computing                                                   | 26.02.2016 | Dr. M. Suresh Kumar<br>Professor/CSE<br>Sri Ramakrishna Engineering<br>College,Coimbatore                                      | 55  |
| 90 | Guest Lecture         | Emotional Intelligence Enhancement                               | 02.03.2016 | Prof. R. Jayashankar<br>Founder and Mentor<br>Prabodhana Education Initiative,<br>Coimbatore.                                  | 196 |
| 91 | Seminar               | Industry Perspective of Developing Web Services                  | 05.03.2016 | Mr.T.Sathishkumar<br>Senior Associate Robert Bosch<br>India, Coimbatore                                                        | 65  |
| 92 | Guest Lecture         | Artificial Intelligence                                          | 05.03.2016 | Dr.M.Newlin Rajkumar<br>Assistant Professor<br>Anna University Regional Centre,<br>Coimbatore                                  | 113 |
| 93 | Extension             | Rally Campaign for 100% Voting                                   | 12.04.2016 | Department of CSE Staff                                                                                                        | 162 |

|                    | Activity              | Awareness                                                                |                          | Members and Students                                                                                             |     |
|--------------------|-----------------------|--------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------|-----|
| <b>2016 - 2017</b> |                       |                                                                          |                          |                                                                                                                  |     |
| 94                 | Hands on Training     | C# and .Net                                                              | 16.07.2016               | Mr.S.Arun Elavaras<br>Associate Software Engineer,<br>Cognizant Technology Solutions,<br>Chennai.                | 66  |
| 95                 | Seminar               | Webinar based Soft Skills Faculty Enablement Program on Business English | 19.07.2016 & 21.07.2016  | Mrs.Begi Margret,<br>Campus Connect,<br>Infosys.                                                                 | 4   |
| 96                 | International Seminar | Learning CS Concepts Through Real-life Analogies & Examples              | 21.07.2016               | Dr. Jeyakesavan,<br>Director, Center for CS Education & Outreach<br>The University of Texas, Dallas, USA.        | 118 |
| 97                 | Guest Lecture         | Network Application Architectures                                        | 25.07.2016               | Dr.E.Govindharaj, Professor/CSE,<br>NES College of Engineering,<br>Kerala.                                       | 10  |
| 98                 | International Seminar | Data Mining and Warehousing                                              | 29.07.2016               | Mr. Stephen Sidney Gill,<br>Associate Professor, Center for CS Education & Outreach Dubai<br>Campus MACS, Dubai. | 200 |
| 99                 | Seminar               | Programming Contest on "Best Brains Quotient-2016"                       | 29.07.2016               | Livewire,<br>Coimbatore.                                                                                         | 289 |
| 100                | Seminar               | Campus Connect Webinar Series on Advanced Java Programming               | 08.08.2016 to 12.08.2016 | K.N.Vani,Principal,<br>Campus Connect Team, Infosys Ltd., Mysore                                                 | 34  |
| 101                | Guest Lecture         | Life Cycle in Information Technology                                     | 20.08.2016               | Mr.D.KrishnaKumar<br>Business Development Consultant, Ziffity Solutions LLC,<br>Chennai.                         | 191 |
| 102                | Hands on Training     | .NET                                                                     | 27.08.2016               | Mr.P.Sathish Kumar<br>.NET Software Developer<br>4S Software Solutions<br>Coimbatore                             | 73  |
| 103                | Seminar               | Campus Connect Webinar on R Programming                                  | 30.08.2016 to 31.08.2016 | Dr. R.R.Rajalaxmi, Professor,<br>Dept. of CSE<br>Kongu Engineering College,<br>Erode                             | 30  |
| 104                | Guest Lecture         | Industry Perspective of Java Programming                                 | 02.09.2016               | Mr.P.Ramesh, Senior Software Engineer, Tech Mahindra,<br>Chennai                                                 | 63  |
| 105                | Guest Lecture         | Eclipse IDE Tool Framework                                               | 03.09.2016               | Mr.Dharsan,<br>Programmer Analyst,<br>Cognizant Technology Solutions,<br>Coimbatore                              | 191 |
| 106                | Guest Lecture         | Computer Graphics & Multimedia                                           | 09.09.2016               | Mr.T.S.Balamurugan,<br>Technical Head,<br>Apex Integrated Systems,<br>Coimbatore                                 | 168 |
| 107                | Guest Lecture         | Media and its Opportunities                                              | 09.09.2016               | Mr.Thiagarajan,<br>Operations Head,                                                                              | 220 |

|     |                   |                                       |            |                                                                                                                                     |     |
|-----|-------------------|---------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------|-----|
|     |                   |                                       |            | Image Creative Edge, Chennai                                                                                                        |     |
| 108 | Workshop          | GATE Way for Bright Future            | 16.09.2016 | Mr.N.V.Subramaniyan,<br>Director, T.I.M.E, Coimbatore                                                                               | 53  |
| 109 | Social Activity   | Cancer Awareness & Prevention         | 17.09.2016 | Department of CSE Faculty<br>Members and III CSE Students                                                                           | 130 |
| 110 | Guest Lecture     | Oracle and its Industrial Perspective | 26.09.2016 | Mr.J.Sathishkumar,<br>Technical Head,<br>Redleaf Technologies,<br>Coimbatore                                                        | 191 |
| 111 | Seminar           | Industry Ready Programming            | 27.09.2016 | Mr. S. Karthikeyan<br>Assistant Professor,<br>Department of CSE,<br>PSG Institute of Technology and<br>Applied Research, Coimbatore | 24  |
| 112 | Seminar           | Android Nougat Tool                   | 28.09.2016 | Mr.S.Gowtham Kumar,<br>Technical Head,<br>NETTEL Solutions, Coimbatore                                                              | 25  |
| 113 | Hands-on Workshop | Android App Development               | 03.10.2016 | Mr.R.Boopathi Kumar, Project<br>Head, Appin Technology Lab,<br>Coimbatore                                                           | 20  |
| 114 | Guest Lecture     | R Programming Language                | 04.10.2016 | Mrs.P.Shalini, Branch Manager,<br>Sniper Infotech, Coimbatore                                                                       | 67  |
| 115 | Guest Lecture     | Objected Oriented Programming         | 04.10.2016 | Mr.P.Ganesh Kumar,<br>Software Architect,<br>Infence Technologies Pvt Ltd,<br>Coimbatore                                            | 147 |
| 116 | Guest Lecture     | Software Testing Tools and Techniques | 07.10.2016 | Mr.M.Naveen Kumar,<br>Web Developer and Tester,<br>Accent Techno Soft, Coimbatore.                                                  | 40  |

• **National Conference:**

| S.No | Date       | Title of the conference                                    | Name of the eminent person participated                                              | No. of papers presented |
|------|------------|------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------|
| 1    | 05.10.2012 | National Conference on Recent Trends in Advanced Computing | Mr.V. Viswanathan,<br>Senior Hr, WIPRO<br>Technologies, Bangalore                    | 78                      |
| 2    | 07.10.2013 | National Conference on Recent Trends in Advanced Computing | Mr. R. Haridoss,<br>Chief Executive Officer ,Online<br>Consultancy Services, Chennai | 69                      |

• **International Conference**

| S.No | Dept organizes | Date                | Title of the conference                             | Name of the eminent person participated                                                                                                                                       | No. of papers presented |
|------|----------------|---------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1    | CSE, IT & MCA  | 25–27 February 2015 | IEEE International Conference on Soft-Computing and | <b><u>International Chair's</u></b><br><b>Dr.A. Paul</b> , Kyungpook National University, South Korea<br><b>Dr. Chiang Yung –Chuan</b> , Andes Technology Corporation, Taiwan | 167                     |



|  |  |  |                                |                                                                                                                                                                                                                                                                                                                                                |  |
|--|--|--|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  |  | Networks Security (ICSNS 2015) | <b>Dr.T.N. Kasun De Zoysa</b> , University of Colombo, Sri Lanka<br><b>Dr. K. Chidananda Gowda</b><br>Former Vice Chancellor, Kuvempu University<br><b>Mr.V.S. Prakash Attili</b><br>Head - Education & Training, Infosys Chennai<br><b>Shri. Rahuram Devalla</b><br>Group Practice Head, Technology Solutions, ROW Tech Mahindra Ltd, Chennai |  |
|--|--|--|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

**33. List the teaching methods adopted by the faculty for different programmes.**

The following teaching methods are adopted by the Faculty Members for both UG and PG Programmes as per the requirement of the course.

- ICT based teaching
- Hands-on-sessions in smart class room
- Mini projects
- Projects in final year/semester
- Activity based learning where students do small models demonstrating a particular principle
- Group Assignments
- Group Presentations
- Stay-in Tutorials
- Webinars
- NPTEL videos
- Alumni interaction
- Seminars
- Puzzles based teaching
- Pedagogy method
- Brain storming sessions
- Guest lectures
- Industrial visits
- In-plant training
- Student's internships
- Industrial Projects

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

Learning outcome and programme objectives are monitored and assessed in two different ways namely Indirect and Direct Assessment. Indirect Assessments are done through Exit Survey, Alumni Survey, Employer Survey, Course End Survey and Direct Assessment done through Internal Assessment Examinations. Periodically these Assessments are done to ensure the progress of attainment of programme objectives and learning outcomes.

**35. Highlight the participation of students and faculty in extension activities.**

| S. No | Academic Year | Title of the extension activity conducted (Include medical camps conducted by your department)        | Venue & Date             | Moto                                                                                                                                                                                           | No. of beneficiaries | Any other activity contributing to national development                                    |
|-------|---------------|-------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------|
| 1     | 2012-13       | Nil                                                                                                   |                          |                                                                                                                                                                                                |                      |                                                                                            |
| 2     | 2013-14       | Nil                                                                                                   |                          |                                                                                                                                                                                                |                      |                                                                                            |
| 3     | 2014-15       | 'SWINE FLU' awareness program                                                                         | 28.03.2015               | To Spread awareness on public about Swine flu virus and remedial measures to prevent it.                                                                                                       | 250                  | To have a Swine Flu virus less nation                                                      |
|       |               | Training Programme on Computer Skills Upgradation for Police Personal                                 | 04.05.2015 to 09.05.2015 | Gives basic computer teaching for police department staffs in usage of MS-Word, Excel and Internet Usage                                                                                       | 300                  | To efficiency use of system in order to the cases and do remedial actions when ever needed |
| 4     | 2015-16       | Hamare Bus Ki Baat Hai                                                                                | 15.10.2015               | For college and school bus drivers to create awareness on Road safety measures                                                                                                                 | 120                  | To have a accident less and safe road trip for college and school students                 |
|       |               | Survey on Detection of Early Deafness And Preventing of Future Cumbness at "ETTIMADAI TOWN PANCHAYAT" | 24.02.2016               | Identifying the Deaf and Dumb deficiency children and give free treatment for them                                                                                                             | 474                  | To have a Deaf and Dumb deficiency less childrens in Coimbatore                            |
|       |               | Tying the survey report for Coimbatore West and East Zone                                             | 14.03.2016 to 19.03.2016 | Collected the survey report from all areas from Coimbatore and types the details for all student to find number of childrens available and children's with deficiency were fount for treatment | 160                  | To have a Deaf and Dumb deficiency less childrens in Coimbatore                            |
|       |               | Human Chain on Voting Awareness                                                                       | 12.04.2016               | Creating Awareness among public to achieve 100% voting                                                                                                                                         | 1000                 | To make 100% voting in the election                                                        |

**36. Give details of "beyond syllabus scholarly activities" of the department.**

- Student Exchange programme
- Faculty Exchange Programme
- Funding Proposals
- Department Newsletter
- Students participation in various events
- Publications in Journals and Conferences
- Industrial visit for students
- In-plant training/internships for students
- Industrial projects for students
- Conducting technical and project design contest
- Guest lectures

- Open Elective course
- Self-study courses

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

The programme has been accredited by NBA for 2 Years with effect from 01.07.2014 to 30.06.2016 and the same has been extended for one more year up to 30.06.2017

Ref: File No. 33-211/2010/NBA dated 08.07.2016.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

|                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;"><b>STRENGTHS</b></p> <ul style="list-style-type: none"> <li>• 100% Placement</li> <li>• NBA Accredited</li> <li>• Research Activities</li> <li>• Industry Interaction and academic research tie-ups with internationally reputed Institutions</li> <li>• Competent, enthusiastic and supportive Faculty and Organizing Events by staff/Students</li> </ul> | <p style="text-align: center;"><b>WEAKNESSES</b></p> <ul style="list-style-type: none"> <li>• Less Consultancy</li> <li>• Sponsored Research Projects</li> <li>• Less Monographs</li> <li>• Less Book Publication</li> <li>• Less International Events</li> </ul>                                                                |
| <p style="text-align: center;"><b>OPPORTUNITIES</b></p> <ul style="list-style-type: none"> <li>• Cluster based activity</li> <li>• To set up Research lab</li> <li>• Student active participation in inter college competitions, club activities, etc</li> <li>• Curriculum Revision based on change in technology</li> <li>• Training programme</li> </ul>                               | <p style="text-align: center;"><b>CHALLENGES</b></p> <ul style="list-style-type: none"> <li>• Lack of Public interest in joining engineering college</li> <li>• Growing Competition</li> <li>• Drastic change in technology</li> <li>• Change in Students attitude due to technology advancement</li> <li>• recession</li> </ul> |

**39. Future plans of the department.**

- To get sponsored projects
- To improve in Consultancy projects
- To improve in Monographs
- To improve in Book publication
- To improve in International Events
- To improve in Patent

## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

Name of the Department : **Electrical and Electronics Engineering**

Year of Establishment : **2005**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| Programme level | Programmes offered | Year of Establishment | Initial Intake | Year of Increase in Intake/ Strength | NBA Accredited / Others       |
|-----------------|--------------------|-----------------------|----------------|--------------------------------------|-------------------------------|
| UG Programme    | B.E. EEE           | 2005                  | 60             | -                                    | NBA Accredited Till July 2017 |
| PG Programme    | M.E. PSE           | 2010                  | 18             | -                                    | -                             |

### 3. Interdisciplinary courses and departments involved

| S.No | Interdisciplinary Courses                     | Semester | Department                       |
|------|-----------------------------------------------|----------|----------------------------------|
| 1    | Technical English – I                         | I        | Science and Humanities           |
| 2    | Engineering Mathematics – I                   |          | Science and Humanities           |
| 3    | Engineering Physics                           |          | Science and Humanities           |
| 4    | Engineering Chemistry                         |          | Science and Humanities           |
| 5    | Basic Civil & Mechanical Engineering          |          | Mechanical Engineering           |
| 6    | Fundamentals of Computing and Programming     |          | Computer Science and Engineering |
| 7    | Physics Laboratory                            |          | Science and Humanities           |
| 8    | Engineering Practices Laboratory              |          | Mechanical Engineering           |
| 9    | Technical English – II                        | II       | Science and Humanities           |
| 10   | Engineering Mathematics-II                    |          | Science and Humanities           |
| 11   | Physics of Materials                          |          | Science and Humanities           |
| 12   | Environmental Science and Engineering         |          | Science and Humanities           |
| 13   | Engineering Graphics                          |          | Mechanical Engineering           |
| 15   | Communication skills Laboratory               |          | Science and Humanities           |
| 16   | Chemistry Laboratory                          |          | Science and Humanities           |
| 17   | Transforms and partial Differential Equations | III      | Science and Humanities           |
| 18   | Data Structures and Algorithms                |          | Information Technology           |
| 19   | Data Structures and Algorithms Laboratory     |          | Information Technology           |

|    |                                                  |    |                                           |
|----|--------------------------------------------------|----|-------------------------------------------|
| 22 | Statistics and Numerical Methods                 | IV | Science and Humanities                    |
| 24 | Object Oriented Programming using C++            | V  | Computer Science and Engineering          |
| 25 | Object Oriented Programming using C++ laboratory |    | Computer Science and Engineering          |
| 26 | Digital Signal Processing                        | VI | Electronics and Communication Engineering |

#### 4. Annual/ semester/choice based credit system

| S.No | Academic Year | Years / Semester      | System followed                  |
|------|---------------|-----------------------|----------------------------------|
| 1    | 2013 – 14     | All years & Semesters | Semester System                  |
| 2    | 2014 – 15     | All years & Semesters | Semester System                  |
| 3    | 2015 – 16     | II,III & IV years     | Semester System                  |
|      |               | First year alone      | Choice Based Credit System R2015 |
| 4    | 2016 - 17     | III & IV years        | Semester System R2013            |
|      |               | II year               | Choice Based Credit System R2015 |
|      |               | I Year                | Choice Based Credit System R2016 |

#### 5. Participation of the department in the courses offered by other departments

| S.No | Courses offered                                  | Departments involved                                                                     |
|------|--------------------------------------------------|------------------------------------------------------------------------------------------|
| 1    | Basic of Electrical and Electronics Engineering  | B.E (AERO,AUTO, AGRI CIVIL, CIVIL&PLNG, MCT, MECH, MECH&AUTO)                            |
| 2    | Engineering Practices Laboratory (Group B - EEE) | B.E (AERO,AUTO, AGRI, BIO MEDICAL,CIVIL, CIVIL&PLNG,CSE,ECE,E&I,IT MCT, MECH, MECH&AUTO) |
| 3    | Electronic Devices and Circuits                  | B.E (CSE,E&I,IT& BIO MEDICAL)                                                            |
| 4    | Electronic Devices and Circuits Laboratory       | B.E (E&I)                                                                                |
| 5    | Electrical Machines and Drives                   | B.E (MECH)                                                                               |
| 6    | Electrical Machines and Drives Laboratory        | B.E (MECH)                                                                               |

#### 6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors) S: Sanctioned F: Filled

|                             | 2012 - 13 |    |    |   | 2013 – 14 |    |    |   | 2014 – 15 |    |    |   | 2015 - 16 |    |    |   | 2016 - 17 |   |    |   |
|-----------------------------|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|---|----|---|
|                             | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |   | PG |   |
|                             | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F | S  | F |
| <b>Professors</b>           | 1         | 1  | 1  | 1 | 1         | 1  | 1  | 1 | 1         | 1  | 1  | 1 | 1         | 1  | 1  | 1 | 1         | 1 | 1  | 1 |
| <b>Associate Professors</b> | -         | -  | -  | - | -         | -  | -  | - | 1         | 1  | -  | - | 3         | 3  | -  | - | 3         | 3 | -  | - |
| <b>Assistant Professors</b> | 14        | 14 | 2  | 2 | 16        | 16 | 2  | 2 | 12        | 12 | 2  | 2 | 10        | 10 | 2  | 2 | 9         | 9 | 2  | 2 |

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)**

| S.No | Name                  | Qualification | Designation             | Specialization                       | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|------|-----------------------|---------------|-------------------------|--------------------------------------|----------------------------|---------------------------------------------------|
| 1    | Dr.S.Chenthur Pandian | M.E.,Ph.D     | Professor and Principal | Power System Engineering             | 37.8                       | 15<br>Guiding:8                                   |
| 2    | Dr.R.Subramanian      | M.E.,Ph.D     | Professor and Dean      | Applied Electronics                  | 27.8                       | 1<br>Guiding:1                                    |
| 3    | Mr.C.Rama krishnan    | M.E.,(Ph.D)   | Associate Professor     | Power Electronics & drives           | 15.5                       | -                                                 |
| 4    | Mr.R.Senthil Kumar    | M.E.,(Ph.D)   | Associate Professor     | Power Electronics & drives           | 17.4                       | -                                                 |
| 5    | Mr.R.Rajasekaran      | M.E.,(Ph.D)   | Assistant Professor     | Electric Drives and Embedded Control | 11.5                       | -                                                 |
| 6    | Mr.R.Karthick         | M.E.,(Ph.D)   | Associate Professor     | Power System Engineering             | 14.5                       | -                                                 |
| 7    | Mrs.G.Abirami         | B.E.,M.E.,    | Assistant Professor     | Power System Engineering             | 9.6                        | -                                                 |
| 8    | Mrs.S.Jayashree       | B.E.,M.E.,    | Assistant Professor     | Power System Engineering             | 6.5                        | -                                                 |
| 9    | Mr.S.Bharath          | B.E.,M.E.,    | Assistant Professor     | Power System Engineering             | 6.2                        | -                                                 |
| 10   | Mr.R.Pradeep          | M.E.,(Ph.D)   | Assistant Professor     | Power Electronics & drives           | 5.7                        | -                                                 |
| 11   | Mr.R.Vijaya kumar     | B.E.,M.E.,    | Assistant Professor     | Power System Engineering             | 3.7                        | -                                                 |
| 12   | Ms.M.Poornima         | B.E.,M.E.,    | Assistant Professor     | Power Electronics & drives           | 3.7                        | -                                                 |
| 13   | Ms.C.Aishwarya        | B.E.,M.E.,    | Assistant Professor     | Applied Electronics                  | 1.7                        | -                                                 |
| 14   | Ms.J.R.Beny           | B.E.,M.E.,    | Assistant Professor     | Embedded Systems                     | 1.7                        | -                                                 |
| 15   | Mrs.T.Santhiya        | B.E.,M.E.,    | Assistant Professor     | Power System Engineering             | 1.7                        | -                                                 |
| 16   | Mrs.B.Sukanya         | B.E.,M.E.,    | Assistant Professor     | VLSI Design                          | 6.9                        |                                                   |

**8. Percentage of classes taken by temporary faculty – programme-wise information**

NIL – The department has always been adequately staffed and therefore there is no need for temporary faculty.

## 9. Programme-wise Student Teacher Ratio

| Year      | Programme | Total Students Strength | Faculty | Ratio S/T |
|-----------|-----------|-------------------------|---------|-----------|
| 2012 – 13 | UG        | 219                     | 15      | 14.6 : 1  |
|           | PG        | 36                      | 3       | 12 : 1    |
| 2013 – 14 | UG        | 204                     | 17      | 12:1      |
|           | PG        | 34                      | 3       | 11.3:1    |
| 2014 – 15 | UG        | 204                     | 14      | 14.6:1    |
|           | PG        | 34                      | 3       | 11.3:1    |
| 2015 - 16 | UG        | 202                     | 14      | 14.4:1    |
|           | PG        | 22                      | 3       | 7.3:1     |
| 2016 - 17 | UG        | 197                     | 12      | 16.4:1    |
|           | PG        | 7                       | 3       | 2.3:1     |

## 10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

**S: Sanctioned**

**F: Filled**

| Support Staff (technical) and administrative staff | 2012 - 13 |   | 2013 – 14 |   | 2014 – 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 5         | 5 | 5         | 5 | 5         | 5 | 5         | 4 | 5         | 6 |

## 11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

NIL

## 12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

NIL

## 13. Research facility / centre with

- **state recognition**

| S.No | Description                                              | Sanctioned Period      | Recognized University    | File No & Date                      |
|------|----------------------------------------------------------|------------------------|--------------------------|-------------------------------------|
| 1    | Recognized research centre to do Ph.D & M.S(By Research) | 12.08.2014 – June 2017 | Anna University, Chennai | Lr.No. 726/IR/EEE/AR1 dt 21.08.2014 |

- **national recognition** - Nil
- **international recognition** –Nil

#### 14. Publications:

| Description                                                                                                                                                                             | 2012 - 13 | 2013 - 14 | 2014 - 15                    | 2015 - 16 | 2016 - 17 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|------------------------------|-----------|-----------|
| Number of papers published in peer reviewed journals (national / international)                                                                                                         | 66        | 34        | 48                           | 20        | 4         |
| Monographs                                                                                                                                                                              | -         | -         | -                            | -         | -         |
| Chapter(s) in Books                                                                                                                                                                     | -         | -         | -                            | -         | -         |
| Editing Books                                                                                                                                                                           | -         | -         | -                            | -         | -         |
| Books with ISBN numbers with details of publishers                                                                                                                                      | -         | -         | -                            | -         | -         |
| Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) | -         | -         | 3-Scopus<br>6-Google Scholar | 2-Scopus  | 1-Scopus  |
| Citation Index [ Range]                                                                                                                                                                 | 1-45      |           |                              |           |           |
| SNIP                                                                                                                                                                                    | 1.5       | 1.46      | 1.51                         | 1.79      | -         |
| SIR                                                                                                                                                                                     | 1.1       | 0.96      | 0.805                        | 1.06      | -         |
| Impact Factor [ Range]                                                                                                                                                                  | 0.22-2.8  |           |                              |           |           |
| h – index [ Range]                                                                                                                                                                      | 1-12      |           |                              |           |           |

#### 15. Details of patents and income generated

Nil

#### 16. Areas of consultancy and income generated

| S.No                           | Year    | Name of the faculty | Area of Consultancy | Organization                              | Income      |
|--------------------------------|---------|---------------------|---------------------|-------------------------------------------|-------------|
| 1                              | 2013-14 | Dr.R.Subramanian    | Electrical Machines | Jai Industries, Coimbatore                | 1,10,000.00 |
| 2                              | 2013-14 | Dr.R.Subramanian    | Electrical Machines | Om Engineering & Technologies, Coimbatore | 1,25,000.00 |
| <b>Total Income Generated:</b> |         |                     |                     |                                           | 2,35,000.00 |

#### 17. Faculty recharging strategies

- Conducting Faculty Development Programmes in the emerging field of our discipline
- Allowing faculty members to participate in Faculty Development Programs organized by premier Institutions and external agencies.
- Frequent visits to Industry and interaction with Experts of Industry and Academia.
- External experts are invited to conduct refresher courses to the faculty members on emerging areas.
- Faculty members are motivated to attend various events. The details of event



participation during last 5 years are mentioned below.

| S.No | Events                                                                                                             | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|------|--------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1    | Workshops/ Seminars /Conference / Industry Orientation Programs / Industrial Visits / Faculty Development Programs | 19      | 24      | 35      | 56      | 37      |

#### 18. Student projects

- percentage of students who have done in-house projects including inter-departmental and collaboration with industries / institutes

| Year      | Student Strength |    | Percentage of Students Project           |      |                               |    |
|-----------|------------------|----|------------------------------------------|------|-------------------------------|----|
|           |                  |    | In-house projects and inter-departmental |      | Collaboration with industries |    |
|           | UG               | PG | UG                                       | PG   | UG                            | PG |
| 2012 - 13 | 66               | 18 | 87.5                                     | 100  | 12.5                          | -  |
| 2013 - 14 | 66               | 17 | 87.5                                     | 100  | 12.5                          | -  |
| 2014 - 15 | 69               | 17 | 86.7                                     | 94.1 | 17.3                          | 6  |
| 2015 - 16 | 68               | 17 | 25                                       | 100  | 75                            | -  |
| 2016 - 17 | 67               | 05 | 16                                       | 100  | 23.8                          | -  |

#### 19. Awards / recognitions received at the national and international level by

- Faculty :Nil
- Doctoral / post doctoral fellows

| Name of the Faculty | Award    | Year |
|---------------------|----------|------|
| Dr.R.Subramanian    | Doctoral | 2012 |

- Students

| S.No        | Name of the Students | Prize / University Rank | Event Name                          |
|-------------|----------------------|-------------------------|-------------------------------------|
| 2012 - 2013 |                      |                         |                                     |
| 2013- 2014  |                      |                         |                                     |
| 1           | Dhivya Ashok         | Growth Hacker           | Management Qacto LLC, Delaware, USA |
| 2           | Santhosh.D           | Most Diplomatic Award   | Conference, NIT, Trichy             |
| 2014 - 2015 |                      |                         |                                     |
| 3           | Joshibah Raj Kribha  | Chair person            | MUN, SNS college of Tech            |

| S.No               | Name of the Students | Prize / University Rank | Event Name                                                            |
|--------------------|----------------------|-------------------------|-----------------------------------------------------------------------|
| <b>2015 - 2016</b> |                      |                         |                                                                       |
| 4                  | A.Sri Harikrishna    | Best Paper Award        | Paper Presentation<br>Sri Krishna College of Engg & Tech, Coimbatore. |
| 5                  | Arun Surendar        | Winner                  | Sports (Kho-Kho),<br>State level, Tamilnadu                           |
| 6                  | A.Sri Harikrishna    | Best Paper Award        | Paper Presentation<br>APJ Abdul Kalam Research Foundation             |
| <b>2016 – 2017</b> |                      |                         |                                                                       |
| 7                  | Bharathan. P         | Best Paper Award        | Paper Presentation<br>Karunya University<br>Coimbatore                |
| 8                  | Kumaresh. P          | Best Paper Award        | Paper Presentation<br>Karunya University<br>Coimbatore                |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

| S.NO               | Event<br>(Seminars/<br>Conferences/<br>Workshops) | Title                                 | Duration | Sources<br>of funds | Participants |
|--------------------|---------------------------------------------------|---------------------------------------|----------|---------------------|--------------|
| <b>2012 - 2013</b> |                                                   |                                       |          |                     |              |
| 1                  | Conference                                        | Advancement in<br>Electrical Sciences | 1 day    | SNSCT               | 70           |
| 2                  | Symposium                                         | PHASOR 2K14                           | 1 day    | SNSCT               | 106          |
| <b>2013-2014</b>   |                                                   |                                       |          |                     |              |
| 3                  | Conference                                        | Advancement in<br>Electrical Sciences | 1 day    | SNSCT               | 75           |
| 4                  | Symposium                                         | PHASOR 2K14                           | 1 day    | SNSCT               | 102          |
| <b>2014 - 2015</b> |                                                   |                                       |          |                     |              |
| 5                  | Conference                                        | Advancement in<br>Electrical Sciences | 1 day    | SNSCT               | 60           |
| <b>2015 - 2016</b> |                                                   |                                       |          |                     |              |
| 6                  | Conference                                        | Advancement in<br>Electrical Sciences | 1 day    | SNSCT               | 40           |

**21. Student profile course-wise:**

| Year      | Name of the Course | Application Received | Selected |        | Pass percentage |        |
|-----------|--------------------|----------------------|----------|--------|-----------------|--------|
|           |                    |                      | Male     | Female | Male            | Female |
| UG        |                    |                      |          |        |                 |        |
| 2009-2013 | B.E EEE            | NA                   | 45       | 20     | 62.2            | 100    |
| 2010-2014 | B.E EEE            |                      | 46       | 20     | 73.9            | 100    |
| 2011-2015 | B.E EEE            |                      | 49       | 20     | 40.8            | 95     |
| 2012-2016 | B.E EEE            |                      | 55       | 13     | 63.6            | 100    |
| PG        |                    |                      |          |        |                 |        |
| 2011-2013 | M.E. PSE           | NA                   | 7        | 10     | 85.7            | 100    |
| 2012-2014 | M.E. PSE           |                      | 10       | 7      | 70              | 100    |
| 2013-2015 | M.E. PSE           |                      | 10       | 7      | 90              | 100    |
| 2014-2016 | M.E. PSE           |                      | 11       | 6      | 100             | 100    |

**22. Diversity of Students**

| Name of the Course | Batch   | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| <b>B.E. EEE</b>    | 2012-16 | -                              | 95.6                         | 4.4                             | -                                  |
|                    | 2013-17 | -                              | 100                          | -                               | -                                  |
|                    | 2014-18 | -                              | 98.5                         | 1.5                             | -                                  |
|                    | 2015-19 | -                              | 100                          | -                               | -                                  |
|                    | 2016-20 | -                              | 100                          | -                               | -                                  |
| <b>ME PSE</b>      | 2012-14 | -                              | 70.6                         | 29.4                            | -                                  |
|                    | 2013-15 | 5.8                            | 82.3                         | 11.8                            | -                                  |
|                    | 2014-16 | -                              | 88.2                         | 11.8                            | -                                  |
|                    | 2015-17 | -                              | 100                          | -                               | -                                  |
|                    | 2016-18 | -                              | 50                           | 50                              | -                                  |

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

| Sl. No | Year of Passed out | Name of the Competitive Exam | No. of students cleared |         |
|--------|--------------------|------------------------------|-------------------------|---------|
|        |                    |                              | Appeared                | Cleared |
| 1      | 2012               | TANCET                       | 10                      | -       |
|        |                    | GATE                         | 12                      | -       |
|        |                    | CAT                          | 2                       | -       |
|        |                    | GRE                          | 2                       | -       |
|        |                    | IELTS                        | 1                       | -       |
| 2      | 2013               | TANCET                       | 10                      | -       |
|        |                    | GATE                         | 6                       | -       |
| 3      | 2014               | TANCET                       | 7                       | 7       |
|        |                    | GATE                         | 9                       | -       |
| 4      | 2015               | TANCET                       | 6                       | 6       |
|        |                    | MAT                          | 1                       | 1       |
|        |                    | IELTS / GRE                  | 1                       | 1       |
| 5      | 2016               | GATE                         | 11                      | -       |
|        |                    | IELTS                        | 1                       | 1       |
|        |                    | GRE                          | 1                       | 1       |

**24. Student progression**

| Student Progression                    | Percentage against enrolled |       |        |       |
|----------------------------------------|-----------------------------|-------|--------|-------|
|                                        | 2013                        | 2014  | 2015   | 2016  |
| <b>UG to PG</b>                        | 1.47%                       | 4.47% | 4.54%  |       |
| <b>PG to Ph.D.</b>                     | -                           | -     | -      | -     |
| <b>Employed</b>                        | 50%                         | 47.7% | 50%    | 39.4% |
| • <b>Campus selection</b>              |                             |       |        |       |
| • <b>Other than campus recruitment</b> | 16.1%                       | 7.4%  | 15.15% | 19.7% |
| <b>Entrepreneurs</b>                   | -                           | -     | -      | -     |

**25. Diversity of staff**

| UG                                        |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | 85.7    | 88.3    | 85.7    | 85.7    | 84.7    |
| from other universities within the State  | 14.3    | 11.7    | 14.3    | 14.3    | 15.3    |
| from other universities from other States | -       | -       | -       | -       | -       |
| PG                                        |         |         |         |         |         |
| of the same parent university             | 100     | 66.66   | 66.66   | 66.66   | 66.66   |
| from other universities within the State  | -       | 33.33   | 33.3    | 33.3    | 33.3    |
| from other universities from other States | -       | -       | -       | -       | -       |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

| S.No | Year of Award | No. of Ph.D. |
|------|---------------|--------------|
| 1    | 2012          | 1            |

**27. Present details about infrastructural facilities**

**a) Library**

Total No. of books available in department library is 876 and it has project reports of all the students.

| S.No | Academic Year | Book Titles (in nos.) | Book Volumes (in nos.) |
|------|---------------|-----------------------|------------------------|
| 1    | 2012 – 13     | 710                   | 179                    |
| 2    | 2013 – 14     | 781                   | 185                    |
| 3    | 2014 – 15     | 843                   | 188                    |
| 4    | 2015 – 16     | 908                   | 192                    |
| 5    | 2016 - 17     | 923                   | 193                    |

**b) Internet facilities for staff and students**

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in all labs and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel.

**c) Total number of class rooms : 5**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|------|----------------|-------------------------------|--------------------|-------------------------------------------------------------|
| 1    | B208           | 83.7                          | Exclusive          | LCD Projector, PC, White screen, Black board, tables, chair |
| 2    | B209           | 83.7                          | Exclusive          | LCD Projector, PC, White screen, Black board, tables, chair |
| 3    | B210           | 83.7                          | Exclusive          | Black board, desks                                          |
| 4    | A309           | 41.8                          | Exclusive          | Black board, desks                                          |
| 5    | A310           | 41.8                          | Exclusive          | Black board, desks                                          |

**d) Class rooms with ICT facility: 2**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|------|----------------|-------------------------------|--------------------|-------------------------------------------------------------|
| 1    | B208           | 83.7                          | Exclusive          | LCD Projector, PC, White screen, Black board, tables, chair |
| 2    | B209           | 83.7                          | Exclusive          | LCD Projector, PC, White screen, Black board, tables, chair |

**e) Students' laboratories : 8**

| S.No | Lab No.               | Area in Sq.m | Name of the Lab                        |
|------|-----------------------|--------------|----------------------------------------|
| 1    | B010                  | 83.7         | Engineering Practices laboratory       |
| 2    | B009                  | 83.7         | Electrical Circuits laboratory         |
| 3    | B009                  | 83.7         | Control Systems laboratory             |
| 4    | B004, B005, B006,B007 | 280.9        | Electrical Machines laboratory         |
| 5    | B003                  | 69.7         | Electronic Design laboratory           |
| 6    | B002                  | 83.7         | Power Electronics laboratory           |
| 7    | B002                  | 83.7         | Electric Drives and Control laboratory |
| 8    | B001                  | 83.7         | Power System Simulation laboratory     |

**f) Research laboratories : 1**

| S.No | Year of Establishment | Name of the Lab | Description of the Equipments |
|------|-----------------------|-----------------|-------------------------------|
| 1    | 2012 – 13             | Research Lab    | Computers                     |

**28. Number of students of the department getting financial assistance from College.**

Total Number of Students : 105

Total Amount : 18,78,115

| Academic Year | Government        |        | Management        |        |
|---------------|-------------------|--------|-------------------|--------|
|               | Student benefited | Amount | Student benefited | Amount |
| 2012 - 13     | 8                 | 41100  | -                 | -      |
| 2013 – 14     | 18                | 280800 | -                 | -      |
| 2014 – 15     | 52                | 665312 | 2                 | 46450  |
| 2015 – 16     | 24                | 443003 | 1                 | 6450   |
| 2016 - 17     | -                 | -      | 13                | 395000 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Nil; Necessity not raised

**30. Does the department obtain feedback from**

**a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes. Discussions made in the department meeting and the suggestions from the faculty members are forwarded to Board of Studies and then to Standing committee meeting. The final recommendations are placed before the Academic council for approval with or without modifications for implementation.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

In order to assess the performance of the course teacher, a written feedback from the students for all courses is collected at the end of the semester by the class chair person. Apart from the written feedback, an online feedback is collected after each internal assessment test so that any corrective measures can be provided. In addition to these, feedback is taken from class committee meetings after internal assessment test 1 and 2.

**c. Alumni and employers on the programmes and what is the response of the department to the same?**

- Feedback from alumni and employers are taken in a questionnaire format each year and the same is used to assess the program objectives and outcomes.
- Also the alumni share their experience through guest lectures organized in the department.

**31. List the distinguished alumni of the department (maximum 10)**

| S.No | Name of the Alumni | Batch | Current Position   | Company                     |
|------|--------------------|-------|--------------------|-----------------------------|
| 1    | C.Chandramouli     | 2009  | Project Manager    | Tata Elxsi, UK              |
| 2    | Pauly Varghese     | 2009  | Design engineer    | Robert Bosch, Germany       |
| 3    | N.Surya            | 2010  | Product Specialist | CTS, Chennai                |
| 4    | M.Mirunalini       | 2011  | Lieutenant         | Indian Navy                 |
| 5    | A.Navauga          | 2012  | Assistant Engineer | MKN Engineering, Singapore  |
| 6    | O.Obuli Srinivasan | 2012  | Software Developer | Nagravision, Kudelski Group |
| 7    | K.Yavanasundar     | 2013  | System Engineer    | Biocon                      |
| 8    | B.Aparna           | 2014  | Software Engineer  | Infosys, Bangalore          |
| 9    | R.Narendran        | 2014  | MEP Engineer       | Reem Capital LLC, Dubai     |
| 10   | A.Dhivya           | 2015  | Business Head      | Naturals Salon              |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| S. No              | Name of Event | Title                           | Date       | External Experts                                               | No. of Beneficiary |
|--------------------|---------------|---------------------------------|------------|----------------------------------------------------------------|--------------------|
| <b>2012 - 2013</b> |               |                                 |            |                                                                |                    |
| 1                  | Guest Lecture | Overseas Education              | 17.07.2012 | Mr.Sivakumar<br>Domain Overseas education                      | 120                |
| 2                  | Guest Lecture | Programmable logic controllers  | 17.07.2012 | Mr. A. Ezlanchezhiyan<br>Prolific Systems Embedded Engineering | 40                 |
| 3                  | Guest Lecture | Electric Drives and Control lab | 07.07.2012 | Mr. K.Angappan<br>Megatech scientific instruments              | 56                 |
| 4                  | Guest Lecture | Energy Conservation             | 31.08.2012 | Er. R. Jegadeesan, M.D.,                                       | 62                 |

|                    |                           |                                                        |                          |                                                                                       |     |
|--------------------|---------------------------|--------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------|-----|
|                    |                           |                                                        |                          | Indus Electronics Pvt Ltd.,                                                           |     |
| 5                  | Guest Lecture             | Solar Technology and Business Development              | 21.02.2013               | Mr. Devarajan Sree Dev Solar                                                          | 70  |
| 6                  | Guest Lecture             | Conservation of Energy                                 | 22.02.2013               | Mr.K.Nagaraju, Sr.Manager, Technical of MAS Solar Systems                             | 82  |
| 7                  | Hands on training program | NI LabVIEW Core 1 & 2                                  | 11.03.13 to 15.03.13     | National Instruments Systems (India) Pvt. Ltd, Bangalore                              | 46  |
| 8                  | Workshop                  | Embedded Control Communication Devices                 | 12.02.2013               | Department of EEE                                                                     | 61  |
| 9                  | Workshop                  | PCB Design and development                             | 28.08.2012               | Department of EEE                                                                     | 48  |
| <b>2013 - 2014</b> |                           |                                                        |                          |                                                                                       |     |
| 1                  | Guest Lecture             | Electrical Drives and Control                          | 25.07.2013               | Mr.K.Angappan, Megatech scientific Instruments, Coimbatore                            | 66  |
| 2                  | Guest Lecture             | Higher Education in India & Abroad                     | 07.08.2013               | Mr.Krishna Kumar, Academic Instructor & Mr.Kannan, Assistant Manager, IMS, Coimbatore | 66  |
| 3                  | Guest Lecture             | Programmable Logic Controllers                         | 17.08.2013               | Mr.S.Ramachandran M/s.Vee Explore, Coimbatore                                         | 66  |
| 4                  | Guest Lecture             | International Certificate for Management Studies(ICMS) | 26.08.2013               | Mr.K.R.Sivakumar M/s. ICMS, Coimbatore                                                | 66  |
| 5                  | Guest Lecture             | Embedded System                                        | 29.08.2013               | Mr.A.Tamil Alakan, M/s. S Forge LLP,Coimbatore                                        | 67  |
| 6                  | Guest Lecture             | GATE and Core job Opportunities                        | 11.09.2013               | Mr.A.Saravana Kumar M/s. GATEFORUM, Coimbatore                                        | 67  |
| 7                  | Guest Lecture             | Job opportunities in defence                           | 28.09.2013               | Mr.Ashid/ Major-Defence                                                               | 133 |
| 8                  | Guest Lecture             | Embedded System and Applications                       | 7.10.2013                | B.A.Basha Coimbatore                                                                  | 67  |
| 9                  | Guest Lecture             | Recent Trends in Industrial Automation                 | 10.02.2014               | Mr.A.Siva Sakthi, Director of M/s Axis Global Automation, Coimbatore                  | 67  |
| 10                 | Workshop                  | Basic Electrical Switches and Panel Wiring             | 28.01.2014 to 01.02.2014 | Mr.Vijay, M/s. Vijay Controls, Coimbatore                                             | 56  |



|                    |                    |                                                         |                                   |                                                                                                              |     |
|--------------------|--------------------|---------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------|-----|
| 11                 | Value Added Course | Embedded Systems Design                                 | 30.09.2013 to 07.10.2013          | Mr. G.Ramesh, Director, M/s. BETA Technologies India Pvt. Ltd, Coimbatore                                    | 53  |
| 12                 | Value Added Course | Program on chip level service and repair of cell phones | Entire Semester / 12 Hrs/ student | Mr. R.Vijaya Kumar, AP/EEE, SNSCT, Coimbatore                                                                | 112 |
| <b>2014 - 2015</b> |                    |                                                         |                                   |                                                                                                              |     |
| 1                  | Guest Lecture      | Industrial Automation                                   | 05.07.2014                        | Mr. R. Madhusoothanan, Manager, Siemens, Coimbatore Division, Coimbatore.                                    | 68  |
| 2                  | Guest Lecture      | Industrial Automation using Embedded system and PLC     | 15.07.2014                        | Mr. R. Ravirajapandian and Perumal, i Tech Automation, Vellore                                               | 200 |
| 3                  | Guest Lecture      | Power Plant Engineering                                 | 05.07.2014                        | Er.R.Selvakumar, General Manager, KG Denim limited, Coimbatore                                               | 90  |
| 4                  | Guest Lecture      | Industrial PLC and SCADA                                | 01.08.2014                        | Mr. R. Sathyamoorthy, Manager-Technical, Sunrise Automation and Solutions, Coimbatore                        | 68  |
| 5                  | Guest Lecture      | Making of an Engineer                                   | 04.08.2014                        | Prof.J.Asha, Dean Placement, IFET College of Engineering, Villupuram                                         | 200 |
| 6                  | Guest Lecture      | Industry and Internet                                   | 14.08.2014                        | Dr. Pradeep V Desai, Technology Leader,Software Science and Analytics, G.E. Global Research India, Bengaluru | 200 |
| 7                  | Guest Lecture      | PCB development & Electronics components                | 04.09.2014                        | Ms. Shylaja,Trainer ,Beta Technologies, Coimbatore                                                           | 67  |
| 8                  | Guest Lecture      | MATLAB Simulink                                         | 15.09.2014                        | Ms. M. Anju, Asst Professor /Department of EEE, Engineering College, Trissur                                 | 34  |
| 9                  | Guest Lecture      | GATE and Job Opportunities in PSU                       | 19.09.2014                        | Mr. N. Gowri Shankar, Centre Director, ProGATE Coaching by IIT/IISc GATE toppers, Coimbatore                 | 67  |
| 10                 | Guest Lecture      | Opportunities in Core Industries                        | 11.10.2014                        | Mr.Sivakumar, HR, Alstom,Coimbatore Division, Coimbatore                                                     | 200 |
| 11                 | Guest Lecture      | Renewable Energy systems                                | 24.01.2015                        | Mr. Rohit Srivastava , Business Development Head, Cares Renewables Pvt Ltd., Coimbatore                      | 200 |
| 12                 | Guest              | MATLAB                                                  | 31.01.2015                        | Mr. P. Kasirajan, Business                                                                                   | 67  |

|                    |                          |                                                                                               |                             |                                                                                                                                              |     |
|--------------------|--------------------------|-----------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                    | Lecture                  |                                                                                               |                             | Development Executive<br>PriroschInfotech,<br>Coimbatore                                                                                     |     |
| 13                 | Guest<br>Lecture         | Education in<br>Abroad                                                                        | 13.02.2015                  | Mrs. Neharika Kataria,<br>International Officer,<br>University of Glasgow,<br>Scotland, The United<br>Kingdom                                | 200 |
| 14                 | Guest<br>Lecture         | Launching<br>yourself into Core<br>Industries in India<br>and Gulf                            | 10.03.2015                  | Mr. Syed Ibrahim,<br>Managing Director,<br>Mecton Training and<br>Technical services Pvt.<br>Limited, Chennai, Offices<br>at India and Qatar | 200 |
| 15                 | Workshop                 | PCB Design and<br>Development                                                                 | 28.01.2014 to<br>01.02.2014 | Mr. R..Senthil Kumar,<br>AP(SG) /EEE and Mr.<br>R.Vijaya kumar, AP/EEE<br>of SNSCT, Coimbatore                                               | 56  |
| 16                 | Workshop                 | Introduction to<br>ORCAD                                                                      | 05.03.2015                  | Mr. J. Ashley Jebasingh,<br>Executive- Business<br>Development,<br>Live wire, Coimbatore.                                                    | 56  |
| 17                 | Value<br>Added<br>Course | PLC and SCADA                                                                                 | 27.01.2015 to<br>29.01.2015 | Mr. R. Sathyamoorthy,<br>Manager-Technical,<br>M/s. Sunrise Automation<br>and Solutions, Coimbatore                                          | 68  |
| <b>2015 - 2016</b> |                          |                                                                                               |                             |                                                                                                                                              |     |
| 1                  | Guest<br>Lecture         | Importance Of<br>Wind And Solar<br>Energy                                                     | 17.07.2015                  | Mr.S.Govindarajan<br>Plant Head<br>SUZLON Energies Pvt Ltd,<br>Coimbatore                                                                    | 200 |
| 2                  | Guest<br>Lecture         | PLC Automation                                                                                | 10.08.2015                  | Mr.J.Prabhu<br>Manager - Technical<br>Atlantic Drives and<br>Control, Gandhipuram,<br>Coimbatore                                             | 67  |
| 3                  | Guest<br>Lecture         | Renewable<br>Energy & Grid<br>Installation<br>Challenges &<br>Latest Mitigation<br>Techniques | 13.08.2015                  | Mr.B. Somasundaram,<br>Manager<br>Plant Engineering &<br>Maintanence<br>ZF Wind Power,<br>Coimbatore.                                        | 67  |
| 4                  | Guest<br>Lecture         | Key Drivers &<br>Opportunities In<br>Solar PV System                                          | 13.08.2015                  | Mr.R. Yuvaraj,<br>Manager<br>CARES Renewable Pvt.<br>Ltd., Coimbatore.                                                                       | 67  |

| S. No | Name of Event | Title                                                 | Date       | External Experts                                                                            | No. of Beneficiary |
|-------|---------------|-------------------------------------------------------|------------|---------------------------------------------------------------------------------------------|--------------------|
| 5     | Guest Lecture | Solar-Wind Grid Integration Issues                    | 13.08.2015 | Dr. L. Ashok Kumar, Professor/Department of EEE, PSG College of Technology, Coimbatore      | 67                 |
| 6     | Guest Lecture | Opportunities In Abroad                               | 08.09.2015 | Mr.A.G.Kumar, Automation Expert, ECL France, Silver Towers,Coimbatore - 35                  | 133                |
| 7     | Guest Lecture | High Voltage DC Transmission                          | 16.09.2015 | Mr.K.P.Thanusre, Head - R&D, Atandra Energy Pvt Ltd, Ganapathy, Coimbatore                  | 17                 |
| 8     | Guest Lecture | Basics Of Electricals                                 | 21.09.2015 | Mr. Surrender, Time Gate Faculty From IIT Mumbai Hyderabad                                  | 67                 |
| 9     | Guest Lecture | Electromagnetic Induction                             | 23.09.2015 | Mr. J. Vijayaraj, Manager,CRI Pumps Coimbatore-35                                           | 67                 |
| 10    | Guest Lecture | VHDL Programming Language                             | 28.09.2015 | Mr. V.A. Saravanan, Technical Head Quadki Technologies Chennai                              | 67                 |
| 11    | Guest Lecture | Special Electrical Machines                           | 06.10.2015 | Mr. S. Murugesan, General Manager ASIA Motors,Coimbatore                                    | 68                 |
| 12    | Guest Lecture | Higher Studies In Abroad                              | 13.10.2015 | Mr. M. Dhinesh Kumar, Relationship Officer Edwise Consultants Pvt. Ltd., Coimbatore         | 67                 |
| 13    | Guest Lecture | Advancements In Microprocessors And Micro Controllers | 16.10.2015 | Dr.A.Vasuki Professor/Head, Department of ECE, Kumaraguru College of Technology, Coimbatore | 67                 |
| 14    | Guest Lecture | Tactics to crack GATE exams                           | 07.01.2016 | Mr. Gandhi Santhosh Kumar, GATE Academy, Bangalore – 560011.                                | 67                 |
| 15    | Guest Lecture | GATE and Job opportunities in PSU                     | 07.01.2016 | Mr. Santhosh Kumar Gandhi., GATE Academy, Bangalore – 560011.                               | 67                 |

| S. No              | Name of Event      | Title                                                                            | Date                     | External Experts                                                                                                                                              | No. of Beneficiary |
|--------------------|--------------------|----------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 16                 | Guest Lecture      | Career Opportunities for Engineers                                               | 10.02.2016               | Mr. Ramasundhar, STARS, Peelamedu, Coimbatore – 4                                                                                                             | 68                 |
| 17                 | Guest Lecture      | Solar PV cell based UPS                                                          | 11.02.2016               | Mr. Sasikumar & Mr. Sivakumar SS Systems                                                                                                                      | 67                 |
| 18                 | Guest Lecture      | Introduction to MATLAB - Simulink                                                | 16.02.2016               | Mr. Ponraj and Mr. Vasanth, M/s AZETECH, Ganapathy, Coimbatore                                                                                                | 67                 |
| 19                 | Guest Lecture      | LED based Illuminaries                                                           | 22.02.2016               | Mr. V. Angappan MegaTech Scientific Instruments, Coimbatore                                                                                                   | 67                 |
| 20                 | Guest Lecture      | Internet of Things (IOT)                                                         | 23.02.2016               | Ms. A. Padmapriya & Mr. R. Ramesh Matcom Systems, Coimbatore                                                                                                  | 67                 |
| 21                 | Guest Lecture      | Embedded System and Robotics                                                     | 02.03.2016               | Mr. J. Prabhu Atlantic Drives and Control                                                                                                                     | 67                 |
| 22                 | Guest Lecture      | Dreams and Aspirations                                                           | 02.04.2016               | Mr. Santhosh Avvannavar Counsellor and Trainer                                                                                                                | 67                 |
| 23                 | Workshop           | Alternative Energy Integration and Power Electronics for Sustainable Development | 13.08.2015 & 14.08.2015  | Dr. L. Ashok Kumar, Professor, Department of EEE, PSG College of Technology, Coimbatore<br>Mr. Saravanan, Technical Head, M/s. Mighty Electronics, Coimbatore | 67                 |
| 24                 | Workshop           | Industrial Automation using PLC                                                  | 26.08.2015               | Mr. Surender, M/s, Ingenious Power Control Systems (P) Ltd, Coimbatore                                                                                        | 67                 |
| 25                 | Workshop           | Introduction to Matlab - Simulink                                                | 16.02.2016               | Mr. Ponraj & Mr. Vasanth, The Trainers, AZETECH, Ganapathy, Coimbatore                                                                                        | 66                 |
| 26                 | Value Added Course | Relay based Automation, PLC and SCADA                                            | 21.09.2015 to 23.09.2015 | Mr. R. Sathyamoorthy, Manager-Technical, M/s. Sunrise Automation and Solutions, Coimbatore                                                                    | 55                 |
| <b>2016 - 2017</b> |                    |                                                                                  |                          |                                                                                                                                                               |                    |
| 1                  | Guest Lecture      | Pranayama                                                                        | 05.07.2016               | Dr. R. Subramanian, Professor and Dean Department of EEE SNSCT, Cbe                                                                                           | 67                 |

|    |               |                                                       |                     |                                                                                                                          |     |
|----|---------------|-------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------|-----|
| 2  | Guest Lecture | Comfort Zone in Industrial Environment                | 14.07.2016          | Mr. N. Shiva Subramaniam, Director & Technical Head, M/s. Jalaganga Electricals, Rajkot, Gujarat                         | 61  |
| 3  | Guest Lecture | Career Opportunities for EEE                          | 08.08.2016          | Mr.Ramasundar, LT Switch Gear, Chennai                                                                                   | 106 |
| 4  | Guest Lecture | Opportunities for Higher Education                    | 10.08.2016          | Mr.N.V.Subramanian, TIME – Director                                                                                      | 60  |
| 5  | Guest Lecture | Practical Power Quality Issues on Distribution System | 26.08.2016          | Mr.M.Vaidheeswaran,AEE, TamilNadu Electricity Board, Coimbatore                                                          | 67  |
| 6  | Guest Lecture | How to Crack GATE Examination                         | 30.08.2016          | Mr.K.Amuthan, Academic Coordinator, GATE Forum, Coimbatore                                                               | 45  |
| 7  | Guest Lecture | Basics of Electronic Devices and Circuits             | 07.09.2016          | Dr.A.Vasuki, Professor, Dept of EEE, Kumaraguru College of Technology, Coimbatore                                        | 63  |
| 8  | Guest Lecture | Quality Management                                    | 07.09.2016          | Mr.B.Dinesh, Manager, 20/16 Arokiya Swamy Street, Saibaba Colony, N.S.R. Road, Cpoimbatore-641038                        | 67  |
| 9  | Guest Lecture | Book Engineering to Product Engineering               | 21.09.2016          | Mr.S.Sundaramoorthy Proprietor, M/s Sunshiv Electronic Solutions Coimbatore                                              | 160 |
| 10 | Guest Lecture | UK based Education                                    | 01.10.2016          | Mrs.Keerthi Abdhul, Sr. Liason Officer, Career Zone, Coimbatore                                                          | 67  |
| 11 | Guest Lecture | PLC, SCADA & HMI for Oil and Gas Industries           | 07.10.2016          | Mr.S.Kumaresan, Lead, Safety System Engineer, Yokogowa, Abudhabi                                                         | 160 |
| 12 | Workshop      | Entrepreneurship on Fabrication of LED Lights         | 31.08.16            | Mr.V.Angappa , Proprietor, MegaTech Instruments Pvt Ltd, Coimbatore                                                      | 69  |
| 13 | Workshop      | Arduino based Wink and Ringo Robots                   | 17.09.16            | 1.Mr.T.Manikandamural Engineer/Embedded Systems<br>2. Ms.Subhasree , Engineer/Electronics, Beta Technologies, Coimbatore | 67  |
| 14 | Workshop      | Product Development using Arduino                     | 14.10.16 - 15.10.16 | Mr.R.Vijayakumar, Assistant Professor/EEE                                                                                | 67  |

**33. List the teaching methods adopted by the faculty for different programmes.**

The teachers apart from conventional chalk and board method of teaching adopt the following innovative teaching methodologies:

- NPTEL videos, Simulations, Virtual Labs, PPTs and Charts are extensively used to supplement the conventional black board teaching.
- Working prototype models are also shown in the class rooms.
- Role plays, simulation studies, field visits, case studies and demonstrative models are also incorporated in teaching methodology.
- Quiz, crossword puzzles and analogy methods are also incorporated in teaching methodologies.
- Apart from classroom interactions, the students undergo in-plant training, visit industries, present papers, carry out in-house projects, and take up paper publication etc., and faculty give them guidance in all such activities so that the class room learning is effectively and innovatively supplemented.

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

- The department has constituted a Programme Assessment Cell (PAC) where the Dean, HoD, Academic Members from reputed institutions, Industrial Experts, Alumni, Faculty members are members of the cell.
- The PAC assesses the program objectives and outcomes of each course after the end semester results are published at the end of each semester.
- The outcome results are analyzed in the cell and further course of action to be implemented is discussed elaborately. Accordingly the action steps are implemented in forth coming semesters.

**35. Highlight the participation of students and faculty in extension activities.**

- Students are participated in the Extension Activities through NSS and NCC Camps.
- Students are actively Participated in the social awareness programmes
- Faculty members are involved in doing consultancy works with industries and participating social awareness programmes

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- One Credit Courses
- Self-study Electives
- Design Based Experiments in Laboratory Courses
- Mini-projects
- Value Added Courses

- Technical Seminars
- Workshops and Expert's Lectures
- Industrial visits and internships are arranged for both students

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

**Yes,** The UG Programme, B.E. EEE is accredited for 3 years by NBA, New Delhi with effect from July 2014. File No. 33-211/2010/NBA dated 08/07/2014

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

|                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;"><b>STRENGTHS</b></p> <ul style="list-style-type: none"> <li>• Qualified and Experienced faculty members</li> <li>• Well established laboratories</li> <li>• Training students for industrial needs</li> <li>• Well-disciplined students</li> <li>• Electronics Design laboratory for doing hard ware project works</li> </ul>                                               | <p style="text-align: center;"><b>WEAKNESSES</b></p> <ul style="list-style-type: none"> <li>• Lack of Competitive skill at national and International level</li> <li>• Less number of students pursuing higher studies</li> <li>• Less number of placements in core industries</li> <li>• Less number of books authored</li> <li>• Research activities are at premature level</li> </ul>                                                         |
| <p style="text-align: center;"><b>OPPORTUNITIES</b></p> <ul style="list-style-type: none"> <li>• Consistent encouragement for R&amp;D activities</li> <li>• Rewards for publications and Patents</li> <li>• Availability of research funds from national and international agencies</li> <li>• Collaboration with leading MNCs</li> <li>• More Research and Consultancy work can be under taken</li> </ul> | <p style="text-align: center;"><b>CHALLENGES</b></p> <ul style="list-style-type: none"> <li>• Competition with other institutions</li> <li>• Placement for all the students Completing the programme</li> <li>• Promoting academic standard of students at par with international students</li> <li>• Students getting diversions due to media and electronic gadgets</li> <li>• Easy access of drugs and liquor to student community</li> </ul> |

**39. Future plans of the department**

- To establish a centre for excellence in renewable energy systems
- To obtain Five Years accreditation from NBA
- Incubation centre for product development
- At least 50percent faculty with doctoral degree
- Tie up with international universities for exchange of programme
- 100 percent placement in the department
- Certified energy auditors in the department
- Establishing skill development centre
- Filing more patent

## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment :

**Name of the Department** : Electronics and Communication Engineering

**Year of establishment** : 2002

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| S.No. | Program Level | Program offer                             | Year of establishment | Initial intake | Year of increase intake strength | NBA Accredited / Others       |
|-------|---------------|-------------------------------------------|-----------------------|----------------|----------------------------------|-------------------------------|
| 1.    | UG            | Electronics and Communication Engineering | 2002                  | 60             | 2005-120<br>2010-180             | NBA Accredited till July 2017 |
| 2.    | PG            | Communication Systems                     | 2007                  | 18             | Nil                              |                               |
|       |               | VLSI Design                               | 2009                  | 18             | Nil                              | -                             |
|       |               | ECE                                       | 2013                  | 18             | Nil                              |                               |

### 3. Interdisciplinary courses and departments involved

| S.No. | Interdisciplinary Courses                            | Semester | Department             |
|-------|------------------------------------------------------|----------|------------------------|
| 1.    | Technical English – I                                | I        | Science and Humanities |
| 2.    | Engineering Mathematics – I                          |          | Science and Humanities |
| 3.    | Engineering Physics                                  |          | Science and Humanities |
| 4.    | Engineering Chemistry                                |          | Science and Humanities |
| 5.    | Basic Civil & Mechanical Engineering                 |          | Mechanical Engineering |
| 6.    | Physics Laboratory                                   |          | Science and Humanities |
| 7.    | Engineering Practices Laboratory                     |          | Mechanical Engineering |
| 8.    | Fundamentals of Computing and Programming            |          | Information Technology |
| 9.    | Fundamentals of Computing and Programming Laboratory |          | Information Technology |
| 10.   | Technical English – II                               | II       | Science and Humanities |
| 11.   | Engineering Mathematics-II                           |          | Science and Humanities |
| 12.   | Physics of Materials                                 |          | Science and Humanities |
| 13.   | Environmental Science and Engineering                |          | Science and Humanities |
| 14.   | Engineering Graphics                                 |          | Mechanical Engineering |
| 15.   | Communication skills Laboratory                      |          | Science and Humanities |
| 16.   | Chemistry Laboratory                                 |          | Science and Humanities |
| 17.   | Advanced C Programming                               |          | Computer Science and   |



|     |                                                   |     |                                        |
|-----|---------------------------------------------------|-----|----------------------------------------|
| 18. | Advanced C Programming Laboratory                 |     | Engineering                            |
| 19. | Transforms and partial Differential Equations     | III | Science and Humanities                 |
| 20. | Data Structures and Algorithms                    |     | Information Technology                 |
| 21. | Data Structures and Algorithms Laboratory         |     | Information Technology                 |
| 22. | Electrical Machines and control system Laboratory | IV  | Electrical and Electronics Engineering |
| 23. | Probability and Random Process                    |     | Science and Humanities                 |
| 24. | Object oriented Programming Using C++             | V   | IT/CSE                                 |
| 25. | Object oriented Programming Using C++ Laboratory  |     | IT/CSE                                 |

**4. Annual/ semester/choice based credit system :**

| S.No | Academic Year | Years / Semester      | System followed                  |
|------|---------------|-----------------------|----------------------------------|
| 1    | 2013 – 14     | All years & Semesters | Semester System R2013            |
| 2    | 2014 – 15     | All years & Semesters | Semester System R2013            |
| 3    | 2015 – 16     | II, III, & IV years   | Semester System R2013            |
|      |               | First year            | Choice Based Credit System R2015 |
| 4    | 2016 - 17     | III & IV years        | Semester System R2013            |
|      |               | I years               | Choice Based Credit System R2015 |
|      |               | II years              | Choice Based Credit System R2016 |

**5. Participation of the department in the courses offered by other departments**

| S.No | Courses offered                                 | Departments involved |
|------|-------------------------------------------------|----------------------|
| 1.   | Digital Electronics                             | B.E -CSE,B.TECH -IT  |
| 2.   | Digital Electronics Laboratory                  |                      |
| 3.   | Analog and Digital Communication                |                      |
| 4.   | Microprocessors and Microcontrollers            |                      |
| 5.   | Microprocessors and Microcontrollers Laboratory |                      |
| 6.   | Digital Signal Processing                       | B.E (CSE, EEE )      |
| 7.   | Digital Signal Processing Laboratory            | B.TECH -IT           |
| 8.   | Electronics and Microprocessor                  | B.E (MECH)           |
| 9.   | Electronics and Microprocessor Laboratory       |                      |

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors / Asst. Professors)**

| Academic year | 2012-2013 |    |    |   | 2013-2014 |    |    |   | 2014-2015 |    |    |   | 2015-2016 |    |    |   | 2016-2017 |    |    |   |
|---------------|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|
|               | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   |
| Teaching Post | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F |
| PROF.         | 3         | 3  | 0  | 0 | 4         | 1  | 1  | 1 | 5         | 2  | 2  | 2 | 5         | 3  | 1  | 1 | 2         | 2  | 2  | 2 |
| ASP           | 7         | 4  | 0  | 0 | 8         | 2  | 1  | 1 | 8         | 2  | 2  | 2 | 10        | 8  | 1  | 1 | 6         | 6  | 0  | 0 |
| AP            | 21        | 26 | 6  | 6 | 26        | 40 | 4  | 4 | 29        | 38 | 4  | 4 | 29        | 33 | 4  | 4 | 36        | 36 | 4  | 4 |
| TOTAL         | 31        | 34 | 6  | 6 | 38        | 43 | 6  | 6 | 42        | 42 | 8  | 8 | 44        | 44 | 6  | 6 | 44        | 44 | 6  | 6 |

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

**2016-2017**

| Name                     | Qualification | Designation         | Specialization                | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|--------------------------|---------------|---------------------|-------------------------------|----------------------------|---------------------------------------------------|
| Dr.T.Ravichandran        | M.E., Ph.D    | DEAN& HOD/ECE       | Computer Networks             | 21                         | Guided:26<br>Guiding:4                            |
| Dr.D.Mohana Geetha       | M.E., Ph.D    | Professor           | Optical communication         | 20                         | Guiding:5                                         |
| Dr.T.Prabakaran          | M.E Ph.D      | Associate Professor | CSE                           | 19                         | -                                                 |
| Dr.V.J.Arul Karthick     | M.E Ph.D      | Associate Professor | Applied Electronics           | 13                         | -                                                 |
| Mrs.R.Prabha             | M.E           | Associate Professor | Communication Systems         | 12                         | -                                                 |
| Dr..J.Geetha Ramani      | M.E Ph.D      | Associate Professor | Communication Systems         | 9                          | -                                                 |
| Mrs.E.Shanthini          | M.E           | Associate Professor | Embedded Systems Technologies | 17                         | -                                                 |
| Mrs.J.Jayageetha         | M.E (Ph.D)    | Associate Professor | Communication Systems         | 14                         | -                                                 |
| Ms.E. Christina Dally    | M.E           | Assistant Professor | Communication Systems         | 9                          | -                                                 |
| Mrs.K. Sumathi           | M.E           | Assistant Professor | Communication Systems         | 9                          | -                                                 |
| Mrs.B.Sivasankari        | M.E (Ph.D)    | Assistant Professor | VLSI Design                   | 15                         | -                                                 |
| Mr.M.Saravanan           | M.E           | Assistant Professor | VLSI Design                   | 7                          | -                                                 |
| Mr.S.Prabu Venkateswaran | M.E           | Assistant Professor | VLSI Design                   | 7                          | -                                                 |
| Mr.R.Arunsekar           | M.E (Ph.D)    | Assistant Professor | VLSI Design                   | 8                          | -                                                 |
| Mr.M.Jagadesh            | M.E           | Assistant Professor | Applied Electronics           | 8                          | -                                                 |
| Mr.A.Santhosh Kumar      | M.E (Ph.D)    | Assistant Professor | VLSI Design                   | 5                          | -                                                 |
| Mr.S.Vigneshwaran        | M.E           | Assistant Professor | VLSI Design                   | 6                          | -                                                 |

|                                 |            |                     |                                      |    |                         |
|---------------------------------|------------|---------------------|--------------------------------------|----|-------------------------|
| Mr.A.Karthikeyan                | M.E (Ph.D) | Assistant Professor | VLSI Design                          | 6  | -                       |
| Mr.K.Boopathiraja               | M.E (Ph.D) | Assistant Professor | Communication Systems                | 5  | -                       |
| Mrs.N.Pradeepa                  | M.E (Ph.D) | Assistant Professor | Applied Electronics                  | 3  | -                       |
| Mr.S.Srikanth                   | M.E        | Assistant Professor | VLSI Design                          | 4  | -                       |
| Mrs.R.Karthikamani              | M.E        | Assistant Professor | Electrical Drives & Embedded Control | 7  |                         |
| Mrs.A.Gautami                   | M.E (Ph.D) | Assistant Professor | VLSI Design                          | 4  | -                       |
| Mr.T.Prabhu                     | M.E (Ph.D) | Assistant Professor | Communication Systems                | 5  | -                       |
| Mr.R.Sathishkumar               | M.E        | Assistant Professor | VLSI Design                          | 3  | -                       |
| Mrs S.Priya                     | M.E        | Assistant Professor | Communication Systems                | 4  |                         |
| Mr.S.M.Swamynathan              | M.E (Ph.D) | Assistant Professor | Applied Electronics                  | 7  | -                       |
| Mrs.G.V.Asmini                  | M.E (Ph.D) | Assistant Professor | Communication Systems                | 5  | -                       |
| Mr.G.Naveen Balaji              | M.E (Ph.D) | Assistant Professor | VLSI Design                          | 3  | -                       |
| Ms.C.Gokilavani                 | M.E        | Assistant Professor | ECE                                  | 1  | -                       |
| Mrs.D.Ruth Anitha Shirley       | M.E        | Assistant Professor | VLSI Design                          | 1  | -                       |
| Ms M.Indu                       | M.E        | Assistant Professor | VLSI Design                          |    | -                       |
| Ms G.Kalaivani                  | M.E        | Assistant Professor | Communication Systems                |    | -                       |
| Ms A.Sindhu                     | M.E        | Assistant Professor | VLSI Design                          |    | -                       |
| Ms C.Yamunarani                 | M.E        | Assistant Professor | VLSI Design                          |    | -                       |
| Ms S.Hasma shruthi              | M.E        | Assistant Professor | VLSI Design                          |    | -                       |
| Ms A.Mythili                    | M.E        | Assistant Professor | Communication Systems                |    | -                       |
| Ms B.Sangamithra                | M.E        | Assistant Professor | Communication Systems                |    | -                       |
| Ms N.Banupriya                  | M.E        | Assistant Professor | VLSI Design                          | 3  |                         |
| Ms E.Divya                      | M.E        | Assistant Professor | VLSI Design                          |    | -                       |
| <b>PG –COMMUNICATION SYSTEM</b> |            |                     |                                      |    |                         |
| Dr.Chandramathi                 | M.E., Ph.D | Professor           | Applied Electronics                  | 29 | Guided :14<br>Guiding:2 |
| Mr.M.Srinivasaperumal           | M.E        | Assistant Professor | Communication Systems                | 1  | -                       |
| Mrs M.Poornima                  | M.E        | Assistant Professor | VLSI Design                          | 1  | -                       |
| <b>PG –VLSI DESIGN</b>          |            |                     |                                      |    |                         |
| Dr.A.Shanmugam                  | M.E., Ph.D | Professor           | Computer Networks                    | 41 | Guided :12<br>Guiding:2 |
| Ms.S.Mythili                    | M.E        | Assistant Professor | VLSI Design                          | 1  | -                       |
| Mrs S.Shyamala                  | M.E        | Assistant Professor | VLSI Design                          |    | -                       |

**8. Percentage of classes taken by temporary faculty – programme-wise information**

**NIL**-The department has always been adequately staffed and therefore there is no need for temporary faculty

**9. Programme-wise Student Teacher Ratio**

| S.No. | Programme | Academic Year | Student Teacher ratio |
|-------|-----------|---------------|-----------------------|
| 1     | UG        | 2012-2013     | 14:1                  |
|       |           | 2013-2014     | 15:1                  |
|       |           | 2014-2015     | 14.4:1                |
|       |           | 2015-2016     | 15:1                  |
|       |           | 2016-2017     | 15:1                  |
| 2     | PG        | 2012-2013     | 12:1                  |
|       |           | 2013-2014     | 12:1                  |
|       |           | 2014-2015     | 12:1                  |
|       |           | 2015-2016     | 12:1                  |
|       |           | 2016-2017     | 12:1                  |

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

| Support Staff (technical) and administrative staff | 2012 - 13 |   | 2013 – 14 |   | 2014 – 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 8         | 8 | 8         | 8 | 6         | 6 | 7         | 7 | 5         | 5 |

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.- Nil**

| S.No | Year | Name of the Faculty | Funding Agency (National / International) | Name of the Project | Amount Sanctioned | Status Completed or Ongoing |
|------|------|---------------------|-------------------------------------------|---------------------|-------------------|-----------------------------|
| NIL  |      |                     |                                           |                     |                   |                             |

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received : NIL****13. Research facility / centre with**

- state recognition : **Applied for Anna University Chennai and waiting for approval**

| S.No | Description                                                               | Sanctioned Period | Recognized University    | File No & Date |
|------|---------------------------------------------------------------------------|-------------------|--------------------------|----------------|
| 1    | Applied for Recognition for research centre to do Ph.D & M.S(By Research) | -                 | Anna University, Chennai | Applied        |

- national recognition : **NIL**
- international recognition : **NIL**

#### 14. Publications:

|                                                                                                                                                                                         | 2012 - 13        | 2013 - 14        | 2014 - 15                    | 2015 - 16        | 2016 - 17        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------------------|------------------|------------------|
| Number of papers published in peer reviewed journals (national / international)                                                                                                         | 40               | 32               | 12                           | 49               | 19               |
| Monographs                                                                                                                                                                              | -                | -                | -                            | -                | -                |
| Chapter(s) in Books                                                                                                                                                                     | -                | -                | -                            | -                | -                |
| Editing Books                                                                                                                                                                           | -                | -                | -                            | -                | -                |
| Books with ISBN numbers with details of publishers                                                                                                                                      | -                | -                | -                            | -                | -                |
| number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) | 8-Google Scholar | 2-Google Scholar | 1-Scopus<br>4-Google Scholar | 7-Google Scholar | 2-Google Scholar |
| Citation Index [ Range]                                                                                                                                                                 | 1-8              |                  |                              |                  |                  |
| SNIP                                                                                                                                                                                    | -                | -                | -                            | -                | 8                |
| SIR                                                                                                                                                                                     | -                | -                | -                            | -                | -                |
| Impact Factor [ Range]                                                                                                                                                                  | 0.27 – 7.82      |                  |                              |                  |                  |
| h – index [ Range]                                                                                                                                                                      | 1                | -                | -                            | 2                | 5                |

#### 15. Details of patents and income generated

|                     |   |     |
|---------------------|---|-----|
| No.of Patents filed | : | 1   |
| Income generated    | : | NIL |

| S.No. | Date of filing | Patent No | Title                  | Status    |
|-------|----------------|-----------|------------------------|-----------|
| 1     | 21.6.2016      | 284598    | Mobile Charging Holder | Completed |

#### 16. Areas of consultancy and income generated

| S.No | Year      | Name of the Faculty(s)                                    | Title of the Work               | Name of the Organization             | Amount    |
|------|-----------|-----------------------------------------------------------|---------------------------------|--------------------------------------|-----------|
| 1    | 2016-2017 | Mrs.E.Shanthini<br>Mrs.R.Karthikamani<br>Mrs.J.Jayageetha | PCB Design                      | Comtustec India Private Limited      | Rs.23,000 |
| 2    | 2016-2017 | Mr.M.Saravanan<br>Mr.M.Jagadesh                           | Oil Level Indicator             | J.K.Technologi, Pvt.Ltd. Coimbatore. | Rs.15,000 |
| 3    | 2016-2017 | Dr.D.Mohana Geetha<br>Mrs.J.Geetha Ramani<br>Mrs.S.Priya  | Coding for fingerprint security | Yagnamayaya techsuite                | Rs.5100   |

#### 17. Faculty recharging strategies

- External Academic and industrial experts are invited to give lectures in research oriented, industry Oriented and societal oriented problems and on topics related to emerging areas to motivate the faculty.

- Training based on Bloom's Taxonomy on teaching.
- Measures of recharging include, sponsorship to conferences, seminars / workshops, internships in industry or premier institutions (IITs / NITs / Central Laboratories), encouraging research & providing seed money, paper presentation in seminars, conferences and publications in accredited journals(Annexure-I/II,scopus),participation in career advancement programmes (PG & Ph D), refresher / orientation programme on teaching-learning,

Faculty members are deputed to

a) Attend Workshop/ Seminar/ FDP/Webinar/ National & International Conferences/NPTEL Programs

b) Participate in Industry, research Orientation Programmes

| S.No | Events                                                                                                             | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|------|--------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1    | Workshops/ Seminars /Conference / Industry Orientation Programs / Industrial Visits / Faculty Development Programs | 70      | 62      | 63      | 61      | 45      |

### 18. Student Projects-

Percentage of students who have done in-house projects including inter departmental  
Percentage of students doing projects in collaboration with industries / institutes

| Year      | Student Strength |            |          |           | Percentage of Students Project            |            |          |           |                               |            |          |           |
|-----------|------------------|------------|----------|-----------|-------------------------------------------|------------|----------|-----------|-------------------------------|------------|----------|-----------|
|           | UG               | PG         |          |           | In-house projects and inter- departmental |            |          |           | Collaboration with industries |            |          |           |
|           |                  | M.E (VLSI) | M.E (CS) | M.E (ECE) | UG                                        | PG         |          |           | UG                            | PG         |          |           |
|           |                  |            |          |           |                                           | M.E (VLSI) | M.E (CS) | M.E (ECE) |                               | M.E (VLSI) | M.E (CS) | M.E (ECE) |
| 2012 - 13 | 124              | 19         | 19       | NIL       | 100                                       | 100        | 100      | NIL       | NIL                           | NIL        | NIL      | NIL       |
| 2013 - 14 | 144              | 19         | 17       | NIL       | 100                                       | 100        | 100      | NIL       | NIL                           | NIL        | NIL      | NIL       |
| 2014 - 15 | 192              | 16         | 18       | 18        | 72.9                                      | 100        | 44.44    | 100       | 27                            | NIL        | 65.66    | NIL       |
| 2015 - 16 | 208              | 13         | 17       | NIL       | 92.4                                      | 100        | 94.66    | NIL       | 7.5                           | NIL        | 5.44     | NIL       |
| 2016 - 17 | 194              | 8          | NIL      | NIL       | 76.9                                      | 100        | NIL      | NIL       | 23.1                          | NIL        | NIL      | NIL       |

**19. Awards / recognitions received at the national and international level by**

- Faculty : **NIL**
- Doctoral / post doctoral fellows :

| S No | Faculty name         | Year of completion | University                             |
|------|----------------------|--------------------|----------------------------------------|
| 1.   | Dr.V.Ayyempillai     | 2014               | Anna University-Chennai                |
| 2.   | Dr.K.Jayanthi        | 2015               | Anna University-Chennai                |
| 3.   | Dr.N.Rajeshwaran     | 2016               | Jawaharlal Nehru University, Hyderabad |
| 4.   | Dr.V.J.Arul karthick | 2016               | Anna University-Chennai                |
| 5.   | Dr.T.Prabakaran      | 2016               | Anna University-Chennai                |
| 6.   | Dr.Geetharamani      | 2017               | Anna University-Chennai                |

**Students**

| S.no           | Name of the students               | Prize/univ.rank | Event name                                                                       |
|----------------|------------------------------------|-----------------|----------------------------------------------------------------------------------|
| <b>2012-13</b> |                                    |                 |                                                                                  |
| 1              | P.Nivetha                          | I               | Paper Presentation - SRM University, Chennai                                     |
| 2              | P.Nivetha                          | I               | Project Presentation - Jansons Institute of Technology, Coimbatore               |
| 3              | Sangeetha Devi.B                   | 23              | Anna University Rank                                                             |
| 4              | Gowtham.S                          | 39              | Anna University Rank                                                             |
| 5              | Sangeetha.S                        | 45              | Anna University Rank                                                             |
| <b>2013-14</b> |                                    |                 |                                                                                  |
| 3              | M.Madhan Kumar                     | I               | Paper Presentation - Coimbatore Institute of Technology, Coimbatore              |
| 4              | V.A.Saravanan & S.Santhosh         | I               | Paper Presentation - Paavai College of Engineering, Namakal                      |
| <b>2014-15</b> |                                    |                 |                                                                                  |
| 5              | Riyaz Ahamed.L                     | I               | Technical Event - PPG Institute of Technology, Coimbatore                        |
| 6              | S.Prabhu                           | I               | Technical Event - KGISL Institute of Technology, Coimbatore                      |
| 7              | Aarthi.A                           | I               | Technical Event - KPR Institute of Engineering & Technology, Coimbatore          |
| 8              | Harish.Y                           | I               | English Poetry - Sri Krishna college of Engineering & Technology, Coimbatore     |
| <b>2015-16</b> |                                    |                 |                                                                                  |
| 9              | S.M.Dinesh                         | I               | Paper Presentation - SNS College of Engineering, Coimbatore                      |
| 10             | Sruthi.V                           | I               | Technical Event – SNS College of Engineering, Coimbatore                         |
| 11             | K.Prasanna Venkatesh & K.Ram Kumar | I               | Technical Event - Sri Sakthi Institute of Engineering and Technology, Coimbatore |

|                |                                 |   |                                                                             |
|----------------|---------------------------------|---|-----------------------------------------------------------------------------|
| 12             | Harish.Y                        | I | Paper Presentation - Sri Krishna College of Technology, Coimbatore          |
| 13             | A.Priyanka & M.Manoj Kumar      | I | Technical Event - Kongu Engineering College, Erode                          |
| 14             | Mercy.J & Ms.Lawanya.B          | I | Paper Presentation - Sri Krishna College of Technology, Coimbatore          |
| 15             | A.Priyanka                      | I | Technical Event - Kongu Engineering College, Erode                          |
| <b>2016-17</b> |                                 |   |                                                                             |
| 16             | D.Rajesh                        | I | Paper Presentation - Aishwarya College of Engineering and Technology, Erode |
| 17             | Monali.G & Ms. Priyadharshini.M | I | Technical Event - SNS College of Engineering, Coimbatore                    |
| 18             | Sanjeev.K                       | I | Paper Presentation - M.Kumarasamy College of Engineering, Karur.            |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants if any**

| S. No              | Event (Seminars/ Conferences/ Workshops) | Title                                                             | Duration | Sources of funds | Participants |
|--------------------|------------------------------------------|-------------------------------------------------------------------|----------|------------------|--------------|
| <b>2012 – 2013</b> |                                          |                                                                   |          |                  |              |
| 1                  | Guest Lecture                            | Telecommunication Switching                                       | 1 day    | SNSCT            | 80           |
| 2                  | Guest Lecture                            | Recent trends in Embedded systems                                 | 1 day    | SNSCT            | 100          |
| 3                  | Guest Lecture                            | Mobile Communication                                              | 1 day    | SNSCT            | 60           |
| 4                  | Guest Lecture                            | Low power VLSI Using Adiabatic Logic                              | 1 day    | SNSCT            | 80           |
| <b>2013-2014</b>   |                                          |                                                                   |          |                  |              |
| 1                  | Guest Lecture                            | Entrepreneurship                                                  | 1 day    | SNSCT            | 150          |
| 2                  | Guest Lecture                            | Wireless Network                                                  | 1 day    | SNSCT            | 120          |
| 3                  | Guest Lecture                            | Signification of GATE Examination                                 | 1 day    | SNSCT            | 150          |
| 4                  | Guest Lecture                            | CADENCE for Analog and Digital Design                             | 1 day    | SNSCT            | 150          |
| 5                  | Guest Lecture                            | Industry Ready Engineering                                        | 1 day    | SNSCT            | 150          |
| 6                  | Guest Lecture                            | Fundamentals of PCB Design                                        | 1 day    | SNSCT            | 120          |
| 7                  | Guest Lecture                            | Recent trends in Electronics                                      | 1 day    | SNSCT            | 230          |
| 8                  | Workshop                                 | VLSI Design Techniques                                            | 1 day    | SNSCT            | 18           |
| 9                  | Workshop                                 | Software Skills for Wireless Networking system & Image processing | 1 day    | SNSCT            | 18           |
| 10                 | Workshop                                 | Effective handling of practical classes                           | 1 day    | SNSCT            | 45           |
| 11                 | Workshop                                 | Introduction to Medical Electronics & its Applications            | 1 day    | SNSCT            | 75           |



|                    |               |                                                                                                          |       |       |     |
|--------------------|---------------|----------------------------------------------------------------------------------------------------------|-------|-------|-----|
| 12                 | Conference    | National Conference on Innovations in communication and computing                                        | 1 day | SNSCT | 40  |
| <b>2014 – 2015</b> |               |                                                                                                          |       |       |     |
| 1                  | Guest Lecture | PCB Design                                                                                               | 1 day | SNSCT | 200 |
| 2                  | Guest Lecture | Welcome to the world of ECE                                                                              | 1 day | SNSCT | 400 |
| 3                  | Guest Lecture | DSP Applications                                                                                         | 1 day | SNSCT | 200 |
| 4                  | Guest Lecture | Core Industrial aspects of Digital Electronics                                                           | 1 day | SNSCT | 220 |
| 5                  | Guest Lecture | Importance of GATE Exam and its various Opportunities                                                    | 1 day | SNSCT | 200 |
| 6                  | Guest Lecture | Avenues open in communication domain                                                                     | 1 day | SNSCT | 53  |
| 7                  | Guest Lecture | Avenues open in VLSI domain                                                                              | 1 day | SNSCT | 53  |
| 8                  | Guest Lecture | Analog VLSI Design and its application                                                                   | 1 day | SNSCT | 45  |
| 9                  | Guest Lecture | Real Time Embedded System                                                                                | 1 day | SNSCT | 220 |
| 10                 | Guest Lecture | Sequential Circuits                                                                                      | 1 day | SNSCT | 220 |
| 11                 | Guest Lecture | Design and Analysis of Asynchronous Sequential Circuits                                                  | 1 day | SNSCT | 240 |
| 12                 | Guest Lecture | Industrial Robotics                                                                                      | 1 day | SNSCT | 300 |
| 13                 | Guest Lecture | Electronic CAD                                                                                           | 1 day | SNSCT | 200 |
| 14                 | Guest Lecture | Industrial Automation                                                                                    | 1 day | SNSCT | 180 |
| 15                 | Guest Lecture | PCB Design and Fabrication                                                                               | 1 day | SNSCT | 180 |
| 16                 | Guest Lecture | ANN and its Applications                                                                                 | 1 day | SNSCT | 500 |
| 17                 | Guest Lecture | Satcom Services                                                                                          | 1 day | SNSCT | 210 |
| 18                 | Guest Lecture | Mobile Apps for Electronic Professionals                                                                 | 1 day | SNSCT | 60  |
| 19                 | Guest Lecture | Avenues Open in MATLAB & VLSI Domain Project Areas                                                       | 1 day | SNSCT | 210 |
| 20                 | Seminar       | International Seminar on “Opportunities of Higher studies in foreign universities”                       | 1 day | SNSCT | 550 |
| 21                 | Seminar       | Research seminar on “Cloud computing: A Game changer Services, Applications, Opportunities & Challenges” | 1 day | SNSCT | 400 |
| 22                 | Seminar       | Gate Awareness                                                                                           | 1 day | SNSCT | 170 |
| 23                 | Workshop      | VLSI Design Techniques                                                                                   | 1 day | SNSCT | 18  |
| 24                 | Workshop      | Software Skills for Wireless Networking system & Image processing                                        | 1 day | SNSCT | 18  |
| 25                 | Workshop      | Effective handling of practical classes                                                                  | 1 day | SNSCT | 45  |
| 26                 | Workshop      | Introduction to Medical Electronics & its applications                                                   | 1 day | SNSCT | 75  |

|                    |               |                                                                       |       |       |     |
|--------------------|---------------|-----------------------------------------------------------------------|-------|-------|-----|
| 27                 | Conference    | National Conference on Innovations in communication and computing     | 1 day | SNSCT | 50  |
| <b>2015 – 2016</b> |               |                                                                       |       |       |     |
| 1                  | Guest Lecture | Industry needs from the students                                      | 1 day | SNSCT | 200 |
| 2                  | Guest Lecture | Applications of Microprocessor and Microcontroller                    | 1 day | SNSCT | 150 |
| 3                  | Guest Lecture | Gate Online Test Series                                               | 1 day | SNSCT | 140 |
| 4                  | Guest Lecture | Gateway to Government Exam                                            | 1 day | SNSCT | 150 |
| 5                  | Guest Lecture | Analysis of ECG Signal: Applied of Digital Signal Processing          | 1 day | SNSCT | 160 |
| 6                  | Guest Lecture | Asynchronous Sequential Circuits                                      | 1 day | SNSCT | 170 |
| 7                  | Guest Lecture | Applications of Embedded Systems                                      | 1 day | SNSCT | 150 |
| 8                  | Guest Lecture | Advanced MATLAB                                                       | 1 day | SNSCT | 140 |
| 9                  | Guest Lecture | Advanced Technologies of ARM Microcontroller                          | 1 day | SNSCT | 140 |
| 10                 | Guest Lecture | Electrical Machines                                                   | 1 day | SNSCT | 140 |
| 11                 | Guest Lecture | Digital Signal Processing: Filter design                              | 1 day | SNSCT | 120 |
| 12                 | Guest Lecture | Advanced Wireless transceiver schemes                                 | 1 day | SNSCT | 120 |
| 13                 | Guest Lecture | Waveguides and its Applications                                       | 1 day | SNSCT | 120 |
| 14                 | Guest Lecture | Recent trends in Multicore Processor                                  | 1 day | SNSCT | 120 |
| 15                 | Guest Lecture | Microprocessor and Microcontroller Applications                       | 1 day | SNSCT | 120 |
| 16                 | Guest Lecture | HDL Programming for combinational & sequential circuits               | 1 day | SNSCT | 140 |
| 17                 | Guest Lecture | Digital Principles and System Design                                  | 1 day | SNSCT | 140 |
| 18                 | Guest Lecture | Telecommunication Principles                                          | 1 day | SNSCT | 150 |
| 19                 | Guest Lecture | Industry Ready Engineers                                              | 1 day | SNSCT | 130 |
| 20                 | Guest Lecture | Digital Image Processing                                              | 1 day | SNSCT | 160 |
| 21                 | Guest Lecture | Instrumentation & Control Systems                                     | 1 day | SNSCT | 140 |
| 22                 | Guest Lecture | Opportunities in Research and IT sector                               | 1 day | SNSCT | 130 |
| 23                 | Guest Lecture | Electromagnetic Interference and Compatibility                        | 1 day | SNSCT | 140 |
| 24                 | Guest Lecture | Electronic Instrument Cluster                                         | 1 day | SNSCT | 130 |
| 25                 | Guest Lecture | Bio Medical Instrumentation Techniques used for Hospital Measurements | 1 day | SNSCT | 140 |
| 26                 | Guest Lecture | Bio Medical Instrumentation Techniques                                | 1 day | SNSCT | 140 |
| 27                 | Guest Lecture | Electromagnetic Fields and its Applications                           | 1 day | SNSCT | 130 |

|                    |               |                                                                                       |        |       |     |
|--------------------|---------------|---------------------------------------------------------------------------------------|--------|-------|-----|
| 28                 | Guest Lecture | Antennas and Wave propagation                                                         | 1 day  | SNSCT | 140 |
| 29                 | Guest Lecture | Industrial applications of control systems                                            | 1 day  | SNSCT | 150 |
| 30                 | Guest Lecture | Applications of Analog and Digital Communication                                      | 1 day  | SNSCT | 160 |
| 31                 | Guest Lecture | IC 555 timer and its applications                                                     | 1 day  | SNSCT | 120 |
| 32                 | Seminar       | Bank Exam Awareness Program                                                           | 1 day  | SNSCT | 140 |
| 33                 | Seminar       | Recent trends in IOT                                                                  | 1 day  | SNSCT | 150 |
| 34                 | Seminar       | Emerging Trends in Embedded Linux technology                                          | 1 day  | SNSCT | 150 |
| 35                 | Workshop      | VLSI Design Using Cadence tools suite                                                 | 2 Days | SNSCT | 50  |
| 36                 | Workshop      | PCB Design & fabrication                                                              | 2 Days | SNSCT | 40  |
| 37                 | Workshop      | Antenna Design using HFSS Software                                                    | 1 Day  | SNSCT | 60  |
| 38                 | Workshop      | PCB Design & fabrication                                                              | 2 Days | SNSCT | 60  |
| 39                 | Workshop      | MATLAB for image processing                                                           | 2 Days | SNSCT | 60  |
| 40                 | Workshop      | Computer Networks and Hands on Training in CISCO Packet Tracker                       | 2 Days | SNSCT | 100 |
| 41                 | Workshop      | Hands on training in PCB designing                                                    | 1 Days | SNSCT | 50  |
| 42                 | Workshop      | Microwind                                                                             | 1 Day  | SNSCT | 40  |
| 43                 | Workshop      | Network Simulator(NS2)                                                                | 2 Days | SNSCT | 40  |
| 44                 | Workshop      | Mobile Servicing                                                                      | 2 Days | SNSCT | 30  |
| 45                 | Workshop      | VLSI Design using CADENCE tool                                                        | 2 Days | SNSCT | 40  |
| 46                 | Workshop      | LED Bulb manufacturing                                                                | 1 Day  | SNSCT | 30  |
| 47                 | Workshop      | Hands on training workshop on "PROTEUS SOFTWARE"                                      | 1 Day  | SNSCT | 50  |
| 48                 | Workshop      | Hands on training in QUICKER MATHS (VEDIC MAGIC)                                      | 2 Days | SNSCT | 50  |
| 49                 | Conference    | National Level conference on "Innovations in communication and computing(NCICC-20126) | 1 Day  | SNSCT | 50  |
| <b>2016 – 2017</b> |               |                                                                                       |        |       |     |
| 1                  | Guest Lecture | Wireless Sensor Networks                                                              | 1 Day  | SNSCT | 140 |
| 2                  | Guest Lecture | Real time applications of Microprocessor and Microcontroller                          | 1 Day  | SNSCT | 140 |
| 3                  | Guest Lecture | Advances in RF Design                                                                 | 1 Day  | SNSCT | 130 |
| 4                  | Guest Lecture | Applications of Signals & Systems                                                     | 1 Day  | SNSCT | 140 |
| 5                  | Guest Lecture | Industrial sensors and Automation                                                     | 1 Day  | SNSCT | 150 |
| 6                  | Guest Lecture | IoT & its applications                                                                | 1 Day  | SNSCT | 160 |

|    |               |                                                                                             |        |       |     |
|----|---------------|---------------------------------------------------------------------------------------------|--------|-------|-----|
| 7  | Guest Lecture | Practical Scenario existing in software industries                                          | 1 Day  | SNSCT | 140 |
| 8  | Seminar       | Low Power VLSI Design                                                                       | 1 Day  | SNSCT | 120 |
| 9  | Seminar       | Opportunities in government sector                                                          | 1 Day  | SNSCT | 120 |
| 10 | Seminar       | Embedded Computation in core companies                                                      | 1 Day  | SNSCT | 140 |
| 11 | Workshop      | Hands on training in “Analog & Digital VLSI Design using CADENCE Tools”                     | 2 Days | SNSCT | 50  |
| 12 | Workshop      | Hands on training in “PCB Designing”                                                        | 2 Days | SNSCT | 50  |
| 13 | Workshop      | Hands on training in “MATLAB Programming”                                                   | 2 Days | SNSCT | 40  |
| 14 | Workshop      | Workshop in “Electronic equipment servicing and Lab up gradation program for Lab assistants | 1 Day  | SNSCT | 20  |
| 15 | Workshop      | Three days workshop on “Arduino Robotics”                                                   | 3 Days | SNSCT | 50  |
| 16 | Workshop      | Workshop on “Graphic Design”                                                                | 1 Day  | SNSCT | 30  |
| 17 | Workshop      | Hands on training on “Communication based home automation system”                           | 2 Days | SNSCT | 40  |
| 18 | Workshop      | IETE Sponsored one day national level workshop on “IoT”                                     | 1 Day  | IETE  | 50  |
| 19 | Workshop      | Workshop on “LED Manufacturing”                                                             | 1 Day  | SNSCT | 30  |

## 21. Student profile course-wise:

| Year      | Name of the Course | Application Received | Selected |        | Pass percentage |        |
|-----------|--------------------|----------------------|----------|--------|-----------------|--------|
|           |                    |                      | Male     | Female | Male            | Female |
| UG        |                    |                      |          |        |                 |        |
| 2009-2013 | B.E ECE            | NA                   | 63       | 61     | 74.60           | 88.52  |
| 2010-2014 |                    |                      | 75       | 69     | 69.33           | 94.20  |
| 2011-2015 |                    |                      | 119      | 73     | 38.65           | 86.11  |
| 2012-2016 |                    |                      | 109      | 99     | 51.37           | 96.96  |
| PG        |                    |                      |          |        |                 |        |
| 2011-2013 | M.E VLSI           | NA                   | 13       | 23     | 100             | 100    |
| 2012-2014 |                    |                      | 14       | 40     | 100             | 100    |
| 2013-2015 |                    |                      | 3        | 26     | 100             | 100    |
| 2014-2016 |                    |                      | 3        | 6      | 100             | 100    |
| P.G       |                    |                      |          |        |                 |        |
| 2011-2013 | M.E CS             | NA                   | 3        | 15     | 100             | 100    |
| 2012-2014 |                    |                      | 6        | 11     | 83.3            | 100    |
| 2013-2015 |                    |                      | 4        | 14     | 100             | 100    |
| 2014-2016 |                    |                      | 2        | 15     | 100             | 100    |
| P.G       |                    |                      |          |        |                 |        |
| 2013-2015 | M.E ECE            | NA                   | 4        | 14     | 100             | 100    |

## 22. Diversity of Students

| Name of the Course                | Batch     | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|-----------------------------------|-----------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| <b>B.E ECE</b>                    | 2012-16   | NA                             | 98.6                         | 1.4                             | -                                  |
|                                   | 2013-17   | NA                             | 99.5                         | 1.5                             | -                                  |
|                                   | 2014-18   | NA                             | 98.89                        | 1.08                            | -                                  |
|                                   | 2015-19   | NA                             | 99.29                        | 0.70                            | -                                  |
|                                   | 2016-20   | NA                             | 99.21                        | 0.62                            | -                                  |
| <b>M.E VLSI DESIGN</b>            | 2012-14   | 5.5                            | 83.3                         | 16.6                            | 0                                  |
|                                   | 2013-15   | 12.5                           | 87.5                         | 12.5                            | 0                                  |
|                                   | 2014-16   | 15.38                          | 92.30                        | 7.69                            | 0                                  |
|                                   | 2015-17   | -                              | 87.5                         | 12.5                            | 0                                  |
|                                   | 2016-18   | -                              | 100                          | 0                               | 0                                  |
| <b>M.E- COMMUNICATION SYSTEMS</b> | 2012-14   | -                              | 89                           | 11                              | -                                  |
|                                   | 2013-15   | 11                             | 78                           | 19                              | -                                  |
|                                   | 2014-16   | -                              | 81                           | 19                              | -                                  |
| <b>M.E-ECE</b>                    | 2013-2015 | 16.66                          | 100                          | 0                               | 0                                  |

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

| S.No | Year of Passed out | Name of the Competitive Exam | No. of students cleared |         |
|------|--------------------|------------------------------|-------------------------|---------|
|      |                    |                              | Appeared                | Cleared |
| 1.   | 2012               | TANCET                       | 4                       | 4       |
| 2.   | 2013               | TANCET                       | 21                      | 21      |
| 3.   | 2014               | TANCET                       | 9                       | 9       |
| 4.   | 2015               | TANCET                       | 4                       | 4       |
| 5.   | 2016               | GATE                         | 15                      | 1       |
|      |                    | TANCET                       | 4                       | 4       |
|      |                    | DEFENCE SERVICES             | 1                       | 1       |

## 24. Student progression

| Student Progression             | Percentage against enrolled |      |      |      |
|---------------------------------|-----------------------------|------|------|------|
|                                 | 2013                        | 2014 | 2015 | 2016 |
| <b>UG to PG</b>                 | 16.53                       | 6.2  | 2.08 | 2.57 |
| <b>PG to Ph.D.</b>              | NIL                         |      |      |      |
| <b>Employed</b>                 | 59                          | 34.3 | 56.2 | 52   |
| • Campus selection              |                             |      |      |      |
| • Other than campus recruitment | 24                          | 55.9 | 15.6 | 15.4 |
| <b>Entrepreneurs</b>            | NIL                         | 2.09 | 1.03 | 4.1  |

**25. Diversity of staff**

| UG                                        |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | 65      | 67.4    | 66.6    | 70.4    | 79.5    |
| from other universities within the State  | 32.5    | 30.2    | 30.9    | 27.2    | 20.5    |
| from other universities from other States | 2.5     | 2.3     | 2.3     | 2.2     | --      |
| PG                                        |         |         |         |         |         |
| of the same parent university             | 33.3    | 33.3    | 50      | 50      | 50      |
| from other universities within the State  | 66.6    | 66.6    | 50      | 50      | 50      |
| from other universities from other States | -       | -       | -       | -       | -       |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

| S No | Faculty name         | Year of completion | University                                           |
|------|----------------------|--------------------|------------------------------------------------------|
| 1.   | Dr.V.Ayyempillai     | 2014               | Anna University-Chennai                              |
| 2.   | Dr.K.Jayanthi        | 2015               | Anna University-Chennai                              |
| 3.   | Dr.N.Rajeshwaran     | 2016               | Jawaharlal Nehru Technological University, Hyderabad |
| 4.   | Dr.V.J.Arul karthick | 2016               | Anna University-Chennai                              |
| 5.   | Dr.T.Prabakaran      | 2016               | Anna University-Chennai                              |
| 6.   | Dr.J.Geetharamani    | 2017               | Anna University-Chennai                              |

**27. Present details about infrastructural facilities****a) Library**

Total No. of books available in department library is and it has project reports of all the students.

| S.No | Academic Year | Book Titles (in nos.) | Book Volumes (in nos.) |
|------|---------------|-----------------------|------------------------|
| 1    | 2012 – 13     | 218                   | 218                    |
| 2    | 2013 – 14     | 20                    | 238                    |
| 3    | 2014 – 15     | 59                    | 297                    |
| 4    | 2015 – 16     | 8                     | 305                    |
| 5    | 2016 - 17     | 305                   | 305                    |

**b) Internet facilities for staff and students**

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in all labs and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel.

**c) Total number of class rooms : 9**

| S.No | Class Room No. | Description of Room<br>(in Sq.m) | Shared /<br>Exclusive | Details of<br>Facility<br>Available |
|------|----------------|----------------------------------|-----------------------|-------------------------------------|
| 1.   | B201           | 83.7                             | Exclusive             | Black board,<br>Tables, Chair       |
| 2.   | B202           | 83.7                             | Exclusive             |                                     |
| 3.   | B203           | 83.7                             | Exclusive             |                                     |
| 4.   | B204           | 83.7                             | Exclusive             |                                     |
| 5.   | B205           | 83.7                             | Exclusive             |                                     |
| 6.   | B206           | 83.7                             | Exclusive             |                                     |
| 7.   | B305           | 83.7                             | Exclusive             |                                     |
| 8.   | B306           | 83.7                             | Exclusive             |                                     |
| 9.   | B307           | 83.7                             | Exclusive             |                                     |

**d) Class rooms with ICT facility: 6**

| S.No | Class Room No. | Description of Room<br>(in Sq.m) | Shared /<br>Exclusive | Details of Facility<br>Available                                  |
|------|----------------|----------------------------------|-----------------------|-------------------------------------------------------------------|
| 1    | B201           | 83.7                             | Exclusive             | LCD Projector, PC,<br>White screen, Black<br>board, Tables, Chair |
| 2    | B202           | 83.7                             | Exclusive             |                                                                   |
| 3    | B203           | 83.7                             | Exclusive             |                                                                   |
| 4    | B204           | 83.7                             | Exclusive             |                                                                   |
| 5    | B205           | 83.7                             | Exclusive             |                                                                   |
| 6    | B206           | 83.7                             | Exclusive             |                                                                   |

**e) Students' laboratories :**

| S.No | Lab No.   | Area in Sq.m | Name of the Lab           |
|------|-----------|--------------|---------------------------|
| 1    | B101,B102 | 144.9        | ELECTRONICS LAB           |
| 2    | B103,104  | 114          | VLSI LAB                  |
| 3    | B105      | 85           | DSP / NETWORKS LAB        |
| 4    | B106      | 87           | MICROPROCESSOR LAB        |
| 5    | B107      | 87.3         | OPTICAL AND MICROWAVE LAB |
| 6    | B112      | 85           | COMMUNICATION LAB         |
| 7    | AE41,42   | 141          | DIGITAL LAB               |

|    |                |       |                                 |
|----|----------------|-------|---------------------------------|
| 8  | AW41,42        | 141   | LIC LAB                         |
| 9  | B301,B302,B303 | 197.9 | EDC / ESD LAB                   |
| 10 | B304           | 89.22 | HARDWARE & TROUBLE SHOOTING LAB |

**f) Research laboratories :**

| S.No | Year of Establishment | Name of the Lab | Description of the Equipments                      |
|------|-----------------------|-----------------|----------------------------------------------------|
| 1    | 2012 – 13             | Project Lab     | Computers<br>LCD Projector<br>Printers<br>Software |

**28. Number of students of the department getting financial assistance from College.**

Total Number of Students : 517

Total Amount : 7457597

| Academic Year | Government        |         | Management        |         |
|---------------|-------------------|---------|-------------------|---------|
|               | Student benefited | Amount  | Student benefited | Amount  |
| 2012 - 13     | 57                | 1438015 | 5                 | 125000  |
| 2013 – 14     | 57                | 516400  | 8                 | 75000   |
| 2014 – 15     | 273               | 423000  | 9                 | 130000  |
| 2015 – 16     | 192               | 3395182 | 8                 | 305000  |
| 2016 - 17     | In Progress       |         | 30                | 1050000 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Need assessment exercise was carried out for starting M.E. (VLSI design) programme by

- Based on the demand of the program.
- Interaction with higher education institutions like NIT and IIT.
- Interaction with experts from industries.
- Feedback received and considering the suggestion given by the Stakeholders.
- Referring to the curriculum of Anna University, Chennai, Stanford Universities on Internet.

**30. Does the department obtain feedback from**

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**



Yes, we have obtained feedback from faculty on curriculum and teaching learning evaluation. The feedback on curriculum inputs is incorporated in the Board of Studies meetings for further analysis and discussions. These changes are then incorporated into the syllabus.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

The students give feedback on both the curriculum and the teaching – learning-evaluation.

The students can come and discuss with head of the department. The issue is taken up with the help of the teachers. This include problems faced by the students in academics or any other personal issue

Tutor ward System : Every faculty is assigned a small group of 15-22 students and they are mentors for these students. This will be a very effective tool in obtaining feedback from students both on the academic and personal front.

**c. Alumni and employers on the programmes and what is the response of the department to the same?**

Both the alumni and the employers play a vital role in adding value to the ECE programme.

The alumni share their experiences on a forum and this gives us an insight as to how the programme has molded them to fit in the corporate world.

The employers have always given us a very positive feedback about our students. We have industry experts from the field of Electronics and Communication on our Board of Studies and so their feedback on the course and case studies helps us in designing the programme.

**31. List the distinguished alumni of the department (maximum 10) –mixed alumni needed year wise also include contact no.**

| S.No | Name of the Alumni | Batch        | Current Position  | Contact Details                                                                               |
|------|--------------------|--------------|-------------------|-----------------------------------------------------------------------------------------------|
| 1.   | C.Ramalingham      | B.E<br>2012  | Program analyst,  | Robert bosch, Thudiyalur road,365,Saravanampatti, Coimbatore-35                               |
| 2.   | Divya.K            | B.E.<br>2013 | Program analyst   | CTS ,c3-chil special economiczone, Keeranatham village, Saravanampatti(po), Coimbatore-641006 |
| 3.   | S.V.L.Gowtham      | B.E-<br>2012 | software engineer | HCL Technologies, Bangalore                                                                   |
| 4.   | Gowtham.S          | B.E<br>2013  | HR                | Hirotech India Private Ltd,Saravanampatti                                                     |
| 5.   | Manju.S            | B.E-<br>2013 | HR                | CTS,c3-chil special economiczone, Keeranatham Village, Saravanampatti(po), Coimbatore-641006  |
| 6.   | Vivek.R            | B.E-         | Junior            | L&T,Chennai                                                                                   |

|     |                   |           |                 |                           |
|-----|-------------------|-----------|-----------------|---------------------------|
|     |                   | 2014      | Executive       |                           |
| 7.  | Jumana Thahasin.S | B.E. 2015 | Program analyst | Tech Mahindra, Chennai    |
| 8.  | Sowmya.M          | B.E-2014  | Program analyst | IBM, Bangalore            |
| 9.  | S.Prabhu          | B.E-2015  | Program analyst | Zoho corporation, Chennai |
| 10. | Madhan Kumar R    | B.E-2015  | Program analyst | HP, Bangalore             |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| S. No              | Name of Event | Title                                 | Date       | External Experts                                                        | No. of Beneficiary |
|--------------------|---------------|---------------------------------------|------------|-------------------------------------------------------------------------|--------------------|
| <b>2012 – 2013</b> |               |                                       |            |                                                                         |                    |
| 1                  | Guest Lecture | Telecommunication Switching           | 24.08.2012 | Er.S.Rajakumar-BSNL Chennai                                             | 80                 |
| 2                  | Guest Lecture | Recent trends in Embedded systems     | 19.10.2012 | Dr.T.Purushothaman Government College of Technology, Coimbatore         | 100                |
| 3                  | Guest Lecture | Mobile Communication                  | 18.01.2013 | Prof.R.Uday Kumar Sri Krishna College Coimbatore                        | 60                 |
| 4                  | Guest Lecture | Low power VLSI Using Adiabatic Logic  | 10.04.2013 | Mr.S.Saravanakumar Caliber Embedded Technology, Coimbatore              | 80                 |
| <b>2013 – 2014</b> |               |                                       |            |                                                                         |                    |
| 1                  | Guest Lecture | Entrepreneurship                      | 07.08.2013 | Mr.C.Sundramoorthy, Managing Director, Sunshiv Electronics, Coimbatore. | 150                |
| 2                  | Guest Lecture | Wireless Network                      | 31.08.2013 | Mr.Quin Sing Janner Accenture Pvt.Ltd Bangalore                         | 120                |
| 3                  | Guest Lecture | Significance of GATE examination      | 07.01.2014 | Mr.A.Saravanakumaran GATE Forum Coimbatore                              | 150                |
| 4                  | Guest Lecture | CADENCE for Analog and Digital Design | 08.01.2014 | Mr.S.Vinothkumar VI Microsystems Coimbatore                             | 150                |
| 5                  | Guest Lecture | Industry Ready Engineering            | 11.01.2014 | Mr.C.Sundramoorthy, Managing Director, Sunshiv Electronics, Coimbatore. | 150                |
| 6                  | Guest Lecture | Fundamentals of PCB Design            | 10.03.2014 | Mr.S.Lakshmanan PRECITRON, Coimbatore                                   | 120                |
| 7                  | Guest Lecture | Recent trends in Electronics          | 29.04.2014 | Mr.J.Shyam Analog & Digital Labs Coimbatore.                            | 230                |

|                    |                  |                                                                            |            |                                                                                         |     |
|--------------------|------------------|----------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------|-----|
| 8                  | Workshop         | VLSI Design Techniques                                                     | 08.08.2013 | Mr.Prakash<br>Pantech Education Private<br>Limited, Coimbatore                          | 18  |
| 9                  | Workshop         | Software Skills for<br>Wireless Networking<br>system & Image<br>processing | 10.09.2013 | Mr.Vinoth Chawan<br>Pantech Education Private<br>Limited, Coimbatore                    | 18  |
| 10                 | Workshop         | Effective handling of<br>practical classes                                 | 03.12.2013 | Dr.S.Poornachandran<br>SNS College of<br>Engineering, Coimbatore                        | 45  |
| 11                 | Workshop         | Introduction to Medical<br>Electronics & its<br>applications               | 03.02.2014 | Dr.S.Poornachandran<br>SNS College of<br>Engineering, Coimbatore                        | 75  |
| <b>2014 – 2015</b> |                  |                                                                            |            |                                                                                         |     |
| 1                  | Guest<br>Lecture | PCB Design                                                                 | 15.07.2014 | Mr.S.Saravanakumar,<br>Caliber Embedded<br>Technologies<br>Coimbatore                   | 200 |
| 2                  | Guest<br>Lecture | Welcome to the world of<br>ECE                                             | 21.07.2014 | Mr.A.K.Mohammed<br>AzadReach Information<br>and communication<br>systems, Coimbatore    | 400 |
| 3                  | Guest<br>Lecture | DSP Applications                                                           | 22.07.2014 | Mr.S.Satheeskumaran<br>Vee Xplore, Coimbatore                                           | 200 |
| 4                  | Guest<br>Lecture | Core Industrial aspects of<br>Digital Electronics                          | 08.08.2014 | Mr.C.Sundramoorthy,<br>Managing Director,<br>Sunshiv Electronics,<br>Coimbatore.        | 220 |
| 5                  | Guest<br>Lecture | Importance of GATE<br>Exam and its various<br>Opportunities                | 08.08.2014 | Mr.R.Gowri Shankar<br>Progate<br>Coimbatore                                             | 200 |
| 6                  | Guest<br>Lecture | Avenues open in<br>communication domain                                    | 19.08.2014 | Mr.P.Perumal<br>Technical Lead<br>Tech I Automation<br>Coimbatore                       | 53  |
| 7                  | Guest<br>Lecture | Avenues open in VLSI<br>domain                                             | 26.08.2014 | Mr.R.Moorthy<br>VLSI Design Engineer<br>Caliber Embedded<br>Technologies<br>Coimbatore. | 53  |
| 8                  | Guest<br>Lecture | Analog VLSI Design and<br>its application                                  | 26.08.204  | Mr.S.Manoj<br>Pantech Pro Ed Pvt. Ltd<br>Chennai                                        | 45  |
| 9                  | Guest<br>Lecture | Real Time Embedded<br>System                                               | 10.09.2014 | Mr.A.Tamilalakan<br>Director-Workflow<br>S FORGE LLP,<br>Coimbatore                     | 220 |
| 10                 | Guest<br>Lecture | Sequential Circuits                                                        | 29.09.2014 | Mr.S.Baskar<br>Technical Engineer<br>Caliber Technologies<br>Pvt.Ltd, Coimbatore        | 220 |
| 11                 | Guest            | Design and Analysis of                                                     | 30.09.2014 | Mr.S.Lokesh kumar                                                                       | 240 |

|    |               |                                                                                                          |            |                                                                                                                                                |     |
|----|---------------|----------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|    | Lecture       | Asynchronous Sequential Circuits                                                                         |            | Assistant Professor /ECE/Kumaraguru College of Technology, Coimbatore                                                                          |     |
| 12 | Guest Lecture | Industrial Robotics                                                                                      | 01.10.2014 | Mr.R.Sivasakthi<br>Director-Technical<br>Axis Global Automation<br>Coimbatore                                                                  | 300 |
| 13 | Guest Lecture | Electronic CAD                                                                                           | 08.10.2014 | Mr.C.Sundramoorthy,<br>Managing Director,<br>Sunshiv Electronics,<br>Coimbatore.                                                               | 200 |
| 14 | Guest Lecture | Industrial Automation                                                                                    | 17.10.2014 | Mrs.Nandhini &<br>Ms.Unmai<br>Embedded Engineers<br>Beta technologies pvt. Ltd,<br>Coimbatore                                                  | 180 |
| 15 | Guest Lecture | PCB Design and Fabrication                                                                               | 18.10.2014 | Mr.A.Moorthy<br>Director-Technical<br>Nitan Technologies<br>Coimbatore                                                                         | 180 |
| 16 | Guest Lecture | ANN and its Applications                                                                                 | 18.03.2015 | Dr.Paulraj Murugesu<br>Pandiyar,Professor<br>School of Mechatronics<br>Engineering University<br>Malaysia Perlis, Ulu Pauh<br>Campus, Malaysia | 500 |
| 17 | Guest Lecture | Satcom Services                                                                                          | 20.03.2015 | Mrs.K.Malarmani<br>Manager, Satcom Services<br>ISRO, Bangalore                                                                                 | 210 |
| 18 | Guest Lecture | Mobile Apps for Electronic Professionals                                                                 | 24.04.2015 | Mr.Kannan kathirvel<br>Technical & Design Lead,<br>J.K.Technology,<br>Coimbatore                                                               | 60  |
| 19 | Guest Lecture | Avenues Open in MATLAB & VLSI Domain Project Areas                                                       | 09.04.2015 | Mr.K.Moorthy<br>Product Manager<br>Enthu Technology<br>Solutions India Pvt.Ltd<br>Coimbatore                                                   | 210 |
| 20 | Seminar       | International Seminar on “Opportunities of Higher studies in foreign universities”                       | 26.08.2014 | Oregon State University<br>Corvillas, Australia                                                                                                | 550 |
| 21 | Seminar       | Research seminar on “Cloud computing: A Game changer Services, Applications, Opportunities & Challenges” | 08.12.2014 | BRITE Professional<br>Services, Australia                                                                                                      | 400 |
| 22 | Seminar       | Gate Awareness                                                                                           | 23.01.2015 | Mr.N.V.Subramanian<br>Chairman, T.I.M.E<br>Pvt.Ltd, Coimbatore                                                                                 | 170 |
| 23 | Workshop      | VLSI Design Techniques                                                                                   | 08.08.2013 | Mr.Prakash, Pantech<br>Education Private Limited,<br>Coimbatore                                                                                | 18  |

|                    |               |                                                                   |            |                                                                                                                    |     |
|--------------------|---------------|-------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------|-----|
| 24                 | Workshop      | Software Skills for Wireless Networking system & Image processing | 10.09.2013 | Mr.Vinoth Chawan<br>Pantech Education Private Limited<br>Coimbatore                                                | 18  |
| 25                 | Workshop      | Effective handling of practical classes                           | 03.12.2013 | Dr.S.Poornachandran<br>SNS College of Engineering, Coimbatore                                                      | 45  |
| 26                 | Workshop      | Introduction to Medical Electronics & its applications            | 03.02.2014 | Dr.S.Poornachandran<br>SNS College of Engineering, Coimbatore                                                      | 75  |
| <b>2015 – 2016</b> |               |                                                                   |            |                                                                                                                    |     |
| 1                  | Guest Lecture | Industry needs from the students                                  | 15.07.2015 | Dr.Anbalagan Thangavel,<br>Software Architect,<br>Robert Bosch,<br>Coimbatore.                                     | 200 |
| 2                  | Guest Lecture | Applications of Microprocessor and Microcontroller                | 26.08.2015 | Mr.T.Lokesh Kumar,<br>AP/ECE<br>Kumaraguru College of Technology,<br>Coimbatore.                                   | 120 |
| 3                  | Guest Lecture | Gate Online Test Series                                           | 14.09.2015 | Ms.Shashikala,<br>Manager-Academic,<br>The Gate Academy,<br>Coimbatore.                                            | 140 |
| 4                  | Guest Lecture | Gateway to Government Exam                                        | 15.09.2015 | Mr.A.SaravanakumaranDir<br>ector-Gateforum,<br>Radian IAS Academy &<br>Bankers leader Institutions,<br>Coimbatore. | 130 |
| 5                  | Guest Lecture | Analysis of ECG Signal: Applied of Digital Signal Processing      | 18.09.2015 | Mr.Vishnu,<br>Project Engineer,<br>Matcom Systems,<br>Coimbatore.                                                  | 150 |
| 6                  | Guest Lecture | Asynchronous Sequential Circuits                                  | 19.09.2015 | Ms.R.Hemalatha,<br>Assistant Professor/ECE<br>Kumaraguru College of Technology,<br>Coimbatore.                     | 140 |
| 7                  | Guest Lecture | Applications of Embedded Systems                                  | 21.09.2015 | Mr.T.S.Balamurugan,<br>Technical Head,<br>Apex Integrated Systems,<br>Coimbatore.                                  | 140 |
| 8                  | Guest Lecture | Advanced MATLAB                                                   | 22.09.2015 | Mr.Dhanasekar,<br>Product Specialist,<br>Livewire,<br>Coimbatore.                                                  | 120 |
| 9                  | Guest Lecture | Advanced Technologies of ARM Microcontroller                      | 25.09.2015 | Mr.A.Gopinath<br>Corporate Trainer<br>Xplore IT Corp,                                                              | 160 |

|    |               |                                                               |            |                                                                                                         |     |
|----|---------------|---------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------|-----|
|    |               |                                                               |            | Coimbatore.                                                                                             |     |
| 10 | Guest Lecture | Electrical Machines                                           | 28.09.2015 | Dr.C.Kumar,<br>Associate Professor/EEE,<br>Bannari Amman Institute<br>of Technology,<br>Sathyamangalam. | 160 |
| 11 | Guest Lecture | Digital Signal Processing:<br>Filter design                   | 06.10.2015 | Dr.P.T.Vanathi,<br>Associate Professor/ECE,<br>PSG College of<br>Technology,<br>Coimbatore.             | 170 |
| 12 | Guest Lecture | Advanced Wireless<br>transceiver schemes                      | 07.10.2015 | Er.T.R.Madavan,<br>Sub Divisional<br>Engineer,BSNL,<br>Coimbatore.                                      | 160 |
| 13 | Guest Lecture | Waveguides and its<br>Applications                            | 15.10.2015 | Dr.B.Nataraj,<br>Associate Professor,<br>Sri Ramakrishna<br>Engineering College,<br>Coimbatore.         | 120 |
| 14 | Guest Lecture | Recent trends in Multicore<br>Processor                       | 16.10.2015 | Mr.T.Saravanakumar,<br>Senior Engineer,<br>Techgurukul,<br>Chennai.                                     | 120 |
| 15 | Guest Lecture | Microprocessor and<br>Microcontroller<br>Applications         | 16.10.2015 | Mr.T.Boobalan,<br>Assistant Professor/ECE,<br>Sri Eshwar College of<br>Engineering,<br>Coimbatore.      | 140 |
| 16 | Guest Lecture | HDL Programming for<br>combinational &<br>sequential circuits | 17.10.2015 | Dr.K.RajalakshmiAssociate<br>Professor/ECE,<br>PSG College of<br>Technology,<br>Coimbatore.             | 140 |
| 17 | Guest Lecture | Digital Principles and<br>System Design                       | 26.10.2015 | Mr.M.Arulkumar,<br>Senior programmer<br>Vee Xplore,<br>Coimbatore.                                      | 150 |
| 18 | Guest Lecture | Telecommunication<br>Principles                               | 30.10.2015 | Mr.K.Narasimman,<br>Assistant Professor/ECE<br>SNS College of<br>Engineering,<br>Coimbatore.            | 150 |
| 19 | Guest Lecture | Industry Ready Engineers                                      | 09.02.2016 | C.Sundramoorthy,<br>Managing Director,<br>Sunshiv Electronics,<br>Coimbatore.                           | 150 |
| 20 | Guest Lecture | Digital Image Processing                                      | 12.02.2016 | Dr.B.Gopinath,<br>HoD/EEE,<br>Info Institute of Engg,                                                   | 150 |

|    |               |                                                                       |            |                                                                                                          |     |
|----|---------------|-----------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------|-----|
|    |               |                                                                       |            | Coimbatore.                                                                                              |     |
| 21 | Guest Lecture | Instrumentation & Control Systems                                     | 18.02.2016 | Dr. S. Thangaprakash, Professor & Head, Dept of EEE, SVS College of Engineering, Coimbatore.             | 150 |
| 22 | Guest Lecture | Opportunities in Research and IT sector                               | 20.02.2016 | M.A.Arun kumar, A.Amuthan, C.Vidhya, Alumni, ECE-HCL,TCS.                                                | 160 |
| 23 | Guest Lecture | Electromagnetic Interference and Compatibility                        | 05.03.2016 | K.Sathish Kumar, Senior Hardware Engineer, Robert Bosch, cbe.                                            | 160 |
| 24 | Guest Lecture | Electronic Instrument Cluster                                         | 05.03.2016 | C.Ramalingam, Software Developer, Robert Bosch, Coimbatore.                                              | 160 |
| 24 | Guest Lecture | Bio Medical Instrumentation Techniques used for Hospital Measurements | 08.03.2016 | Dr.B.Lekshmana Kumar, Kurinji Hospital, Coimbatore.                                                      | 160 |
| 25 | Guest Lecture | Bio Medical Instrumentation Techniques                                | 15.03.2016 | Dr.S.Prabakar, Prof & Head, Dept.of Bio Medical Engineering, Dr.NGP Institute of Technology, Coimbatore. | 140 |
| 26 | Guest Lecture | Electromagnetic Fields and its Applications                           | 15.03.2016 | Mr.B.Sabarish Narayanan, Amrita Viswa Vidhyapeetham, Coimbatore.                                         | 140 |
| 27 | Guest Lecture | Antennas And Wave propagation                                         | 15.03.2016 | S.B.Sapna, Assistant Professor/ECE, Info Institute of Engineering, Coimbatore.                           | 150 |
| 28 | Guest Lecture | Industrial applications of control systems                            | 16.03.2016 | Dr.Anbalagan Thangavel, Software Architect, Robert Bosch, Coimbatore.                                    | 150 |
| 29 | Guest Lecture | Applications of Analog and Digital Communication                      | 17.03.2016 | Dr.V.Bhanumathi, Assistant Professor/ECE, Anna University Regional Centre, Coimbatore.                   | 130 |
| 30 | Guest Lecture | IC 555 timer and its applications                                     | 29.03.2016 | P.Gowtham, HoD/ECE, Jansons Institute of Technology, Coimbatore.                                         | 120 |
| 31 | Seminar       | Bank Exam Awareness Program                                           | 26.08.2015 | Mr.N.Hari Haran Director Shine School of Banking, Coimbatore.                                            | 120 |

|    |          |                                                                 |                         |                                                                                                                                          |     |
|----|----------|-----------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 32 | Seminar  | Recent trends in IOT                                            | 01.03.2016              | Mr.Ramesh, Technical Lead, Matcom Systems, Coimbatore.                                                                                   | 120 |
| 33 | Seminar  | Emerging Trends in Embedded Linux technology                    | 10.03.2016              | J.Shyam, Technical, Analog & Digital Labs, Coimabtoe.                                                                                    | 120 |
| 34 | Workshop | VLSI Design Using Cadence tools suite                           | 13.07.2015 & 14.07.2015 | Mr.Srihar, Design Engineer, Entuple Technologies Private Limited, Bangalore.                                                             | 50  |
| 35 | Workshop | Antenna Design using HFSS Software                              | 15.09.2015              | Mr.S.Srikanth Project Manager Vee Eee Technologies Solution Pvt.Ltd, Coimbatore.                                                         | 40  |
| 36 | Workshop | MATLAB for image processing                                     | 22.01.2016 & 23.01.2016 | Dr.D.Somasundaram, Dr.B.Gopinath, Sri sakthi college of Engineering & Info Institute of Engineering Coimbatore.                          | 50  |
| 37 | Workshop | Computer Networks and Hands on Training in CISCO Packet Tracker | 09.02.2016 & 10.02.2016 | Mr.V.Anantha Narayanan, AP/CSE<br>Mrs.K.Abirami, AP/CSE<br>Mr.Vamsee Krishnan, AP/CSE<br>Ms.R.Archanaa, AP/ECE -Amrita Univ. Coimbatore. | 100 |
| 38 | Workshop | Hands on training in PCB designing                              | 22.02.2016 & 23.02.2016 | Dr.D.Ramesh, CEO, Chip craft, technologies, Coimbatore.                                                                                  | 50  |
| 39 | Workshop | Microwind                                                       | 05.03.2016              | Mr.M.Arul Kumar, Project Leader, Vee Xplore, Coimbatore.                                                                                 | 40  |
| 40 | Workshop | Network Simulator(NS2)                                          | 09.03.2016 & 10.03.2016 | C.Gowthami, Project Leader, Vee Xplore, Coimbatore.                                                                                      | 30  |
| 41 | Workshop | Mobile Servicing                                                | 09.03.2016 & 10.03.2016 | B.Loganath, Final year, United Institute of Technology, Coimbatore.                                                                      | 30  |



|                    |                  |                                                                    |            |                                                                                                            |     |
|--------------------|------------------|--------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------|-----|
| 42                 | Workshop         | LED Bulb manufacturing                                             | 17.03.2016 | V.Angappa,<br>Proprieter,<br>Mega tech. Coimbatore.                                                        | 30  |
| 43                 | Workshop         | Hands on training<br>workshop on “PROTEUS<br>SOFTWARE”             | 31.03.2016 | S.Parthibara,<br>Senior Design,<br>A.Jayamoha, Design,<br>JRM, Coimbatore.                                 | 40  |
| <b>2016 – 2017</b> |                  |                                                                    |            |                                                                                                            |     |
| 1                  | Guest<br>Lecture | Wireless Sensor Networks                                           | 16.08.2016 | Dr.N.Radhika<br>Prof/CSE Amrita Vishwa<br>Vidapeetham College,<br>Coimbatore.                              | 120 |
| 2                  | Guest<br>Lecture | Real time applications of<br>Microprocessor and<br>Microcontroller | 26.08.2016 | Mr.T.Boobalan<br>Assistant Prof./ECE<br>Akshaya College of<br>Engineering &<br>Technology ,<br>Coimbatore. | 140 |
| 3                  | Guest<br>Lecture | Advances in RF Design                                              | 31.08.2016 | Dr.B.Nataraj<br>Associate professor/ECE<br>Sri Ramakrishna<br>Engineering College<br>Coimbatore.           | 150 |
| 4                  | Guest<br>Lecture | Applications of Signals &<br>Systems                               | 01.10.2016 | Dr.S.Essaikkirajan<br>Associate Professor/ICE<br>PSG College of<br>Technology, Coimbatore.                 | 140 |
| 5                  | Guest<br>Lecture | Industrial sensors and<br>Automation                               | 24.08.2016 | Mr.Thilaban Babu<br>Inventor Automation<br>Coimbatore.                                                     | 150 |
| 6                  | Guest<br>Lecture | IoT & its applications                                             | 02.09.2016 | Mr.T.S.Balamurugan<br>Technical Head<br>Apex integrated systems<br>Coimbatore.                             | 160 |
| 7                  | Guest<br>Lecture | Practical Scenario existing<br>in software industries              | 07.10.2016 | Mr.R.Vivek (Alumni)<br>L&T Info tech<br>Ms.S.Manju (Alumni)<br>CTS Private Limited<br>Chennai.             | 160 |
| 8                  | Seminar          | Low Power VLSI Design                                              | 25.07.2016 | Dr.S.Jayanthi<br>Prof/ECE<br>Sri Ramakrishna<br>Engineering<br>Collge,Coimbatore.                          | 150 |
| 9                  | Seminar          | Opportunities in<br>government sector                              | 17.08.2016 | Mr.M.A.Arun Kumar<br>Alumni<br>Competitive Exam<br>trainer,Chennai.                                        | 150 |

|    |          |                                                                                                     |                          |                                                                                                                        |     |
|----|----------|-----------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|-----|
| 10 | Seminar  | Embedded Computation in core companies                                                              | 30.09.2016               | Mr.R.Mathan Kumar<br>Embedded Design Engineer<br>Vee Eee Technologies Coimbatore.                                      | 150 |
| 11 | Workshop | Two days Hands on training in “Analog & Digital VLSI Design using CADENCE Tools”                    | 29.07.2016 & 30.07.2016  | Dr.R.Sakthivel<br>Sr.IEEE Member<br>VLSI Head, VIT University, Vellore.                                                | 50  |
| 12 | Workshop | Two days Hands on training in “PCB Designing”                                                       | 09.08.2016 & 10.08.2016  | Mr.D.Ramesh<br>Chief technical officer<br>Chip craft Coimbatore.                                                       | 50  |
| 13 | Workshop | Two days Hands on training in “MATLAB Programming”                                                  | 11.08.2016 & 12.08.2016  | Ms.M.Moortheeswari<br>Mr.N.Arun Pandiyan<br>Caliber Embedded technologies Coimbatore.                                  | 50  |
| 14 | Workshop | One day workshop in “Electronic equipment servicing and Lab up gradation program for Lab assistants | 11.08.2016               | Er.S.P.Senthil Subramanian<br>Research and Development team<br>Mighty Electronics and Equipment Corporation Coimbatore | 20  |
| 15 | Workshop | Three days workshop on “Arduino Robotics”                                                           | 31.08.2016 to 02.09.2016 | Mr.R.Prabhu<br>Embedded Design Engineer Caliber Embedded Technologies Coimbatore.                                      | 40  |
| 16 | Workshop | One day workshop on “Graphic Design”                                                                | 31.08.2016               | Mr.S.Thiyagarajan<br>Operation Head<br>Image Creative Education Coimbatore.                                            | 30  |
| 17 | Workshop | Two days hands on training on “Communication based home automation system”                          | 22.09.2016               | Mr.Jagadesh Chandra borse, Managing Director, Yagnamaya Tech Suite, Coimbatore.                                        | 40  |
| 18 | Workshop | IETE Sponsored one day national level workshop on “IoT”                                             | 30.09.2016               | Mr.V.Anantha Narayanan<br>TAG Lead-Predictive Analytics and IoT Lab<br>Amrita University Coimbatore.                   | 40  |

**33. List the teaching methods adopted by the faculty for different programmes.**

1. Teaching through chalk and Board Conventional methods.
2. Use of ICT
3. Puzzles
4. Role Play

5. Mini Projects,
6. Quiz
7. Seminar
8. Guest Lectures

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

- Three internal exams are conducted prior to the end semester examination to continuously monitor the learning depth of students.
- Mini projects are made to check and analyze the application knowledge of students.
- Mock interviews and group discussions are organized for the pre-final year and final year students to measure their performance.
- Performance indicators of students are defined and reviewed constantly after each Internal test. Remedial action taken accordingly.
- Periodic auditing by internal and external audit teams is done twice a year. The report is considered by the department and suitable action is taken to set right deficiencies if any.

**35. Highlight the participation of students and faculty in extension activities.**

- In addition to the active participation in regular NSS, NCC, YRC and RRC activities, the Department of ECE has also organized the following extension activities
- Awareness Rally on “**Dengue fever prevention**” has been conducted at Kovilpalayam on 23.01.2016
- Awareness Rally on “**Cancer Awareness**” has been conducted at Kovilpalayam Village on 23.01.2015
- Awareness Rally on “**Organ donation**” has been conducted at Oraikalpalayam on 02.04.2016

**36. Give details of “beyond syllabus scholarly activities” of the department.**

Students are encouraged to participate

- Mini Projects
- Workshops, Seminars
- National and International Conferences.
- Active seminar presentation and Some of the activities like project exhibition
- One credit courses, Special courses
- Hosting workshops and conferences on issues of key domain interests
- Internships in Industries/software organizations

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

**Yes**, the programme has been accredited by NBA for 2 Years with effect from 01.07.2014 to 30.06.2016 and the same has been extended for one more year up to 30.06.2017

Ref: File No. 33-211/2010/NBA dated 08.07.2016

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>STRENGTH:</u></b><br><br>1. Well qualified, committed and experienced Faculty members.<br>2. Excellent infrastructure with well-equipped, sufficient laboratories and library facility<br>3. Good numbers of technical interactions like Guest Lectures, Workshops & Seminars are conducted by the Department Association<br>4. Every year “Project Contest conducted in symposium “TEXPERIA”for recognizing the students innovative thinking.<br>5. Value Added courses are carried out to prepare the students for achieving Placements in core company/GATE&IES/IBPS & SSC Examination.               | <b><u>WEAKNESS:</u></b><br><br>1. Lack of recognized funded research, Grants.<br>2. Utilization of research laboratories may to be improved<br>3. Consultancy and industry collaborated students project need to be improved<br>4. Lack of Foreign University Collaborated Program<br>5. Lack of Patent utilization from faculty and students.                                                        |
| <b><u>OPPORTUNITIES:</u></b><br><br>1. Provide better opportunities for our faculty and students to engage their research activities<br>2. Encourage Faculty members for contributing professional consultancy services to the industries and government sectors.<br>3. Faculty and students Interacted with industry person for updating the recent trends in market also knowing about the needed skills<br>4. Fast track courses is taken for good academic performance students.<br>5. Financial assistance is given for students for their innovative project also given for faculty research publication | <b><u>CHALLENGES</u></b><br><br>1. To promote study-abroad and student exchange programme for higher semester students<br>2. To get financial assistance from various funding agencies<br>3. Patenting the innovative research work carried out in the department.<br>4. To encourage the students to become entrepreneurs.<br>5. To motivate the students for creating their society useful projects |

**39. FUTURE PLANS OF THE DEPARTMENT:**

- To enhance industry oriented projects
- To encourage students to qualify in competitive examination examinations like GATE.
- To take-up R & D projects from funding agencies like DST, UGC and AICTE.
- To establish Modern Embedded systems lab.
- To make students capable to appear in MNC’s and more employable.
- To strengthen the industry-institute interaction.

## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

Name of the Department : **Electronics and Instrumentation Engineering**

Year of Establishment : **2011**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| Programme level | Programmes offered | Year of Establishment | Initial Intake | Year of Increase in Intake/ Strength |
|-----------------|--------------------|-----------------------|----------------|--------------------------------------|
| UG Programme    | B.E. EIE           | 2011                  | 60             | -                                    |

### 3. Interdisciplinary courses and departments involved

| S.No | Interdisciplinary Courses                             | Semester | Department                                |
|------|-------------------------------------------------------|----------|-------------------------------------------|
| 1    | Technical English – I                                 | I        | Science and Humanities                    |
| 2    | Engineering Mathematics – I                           |          | Science and Humanities                    |
| 3    | Engineering Physics                                   |          | Science and Humanities                    |
| 4    | Engineering Chemistry                                 |          | Science and Humanities                    |
| 5    | Basic Civil & Mechanical Engineering                  |          | Mechanical Engineering                    |
| 6    | Physics Laboratory                                    |          | Science and Humanities                    |
| 7    | Engineering Practices Laboratory                      |          | Mechanical Engineering                    |
| 8    | Technical English – II                                | II       | Science and Humanities                    |
| 9    | Engineering Mathematics-II                            |          | Science and Humanities                    |
| 10   | Physics of Materials                                  |          | Science and Humanities                    |
| 11   | Environmental Science and Engineering                 |          | Science and Humanities                    |
| 12   | Engineering Graphics                                  |          | Mechanical Engineering                    |
| 13   | Communication skills Laboratory                       |          | Science and Humanities                    |
| 14   | Chemistry Laboratory                                  |          | Science and Humanities                    |
| 15   | Transforms and partial Differential Equations         | III      | Science and Humanities                    |
| 16   | Data Structures and Algorithms                        |          | Computer Science & Engineering            |
| 17   | Data Structures and Algorithms Laboratory             |          | Computer Science and Engineering          |
| 18   | Statistics and Numerical Methods                      | IV       | Science and Humanities                    |
| 19   | Fluid Mechanics and Applied Thermodynamics            |          | Mechatronics                              |
| 20   | Fluid Mechanics and Applied Thermodynamics Laboratory |          | Mechatronics                              |
| 21   | Object Oriented Programming using C++                 | V        | Computer Science and Engineering          |
| 22   | Object Oriented Programming using C++ Laboratory      |          | Computer Science and Engineering          |
| 23   | Communication and DSP Laboratory                      | VI       | Electronics and Communication Engineering |

#### 4. Annual/ semester/choice based credit system

| S.No | Academic Year | Years / Semester      | System followed                  |
|------|---------------|-----------------------|----------------------------------|
| 1    | 2013 – 14     | All years & Semesters | Semester System R2013            |
| 2    | 2014 – 15     | All years & Semesters | Semester System R2013            |
| 3    | 2015 – 16     | II, III, & IV years   | Semester System R2013            |
|      |               | First year            | Choice Based Credit System R2015 |
| 4    | 2016 - 17     | III & IV years        | Semester System R2013            |
|      |               | I years               | Choice Based Credit System R2015 |
|      |               | II years              | Choice Based Credit System R2016 |

#### 5. Participation of the department in the courses offered by other departments

| S.No | Courses offered                              | Departments involved |
|------|----------------------------------------------|----------------------|
| 1    | Electronics and Microprocessor               | B.E. AUTO            |
| 2    | Basic Electrical and Electronics Engineering | Science & Humanities |
| 3    | Electric Circuit Analysis                    | Science & Humanities |
| 4    | Electric Circuits Laboratory                 | Science & Humanities |
| 5    | Engineering Practices Laboratory             | Science & Humanities |

#### 6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors) S : Sanctioned F : Filled

|                             | 2012 - 13 |   | 2013 – 14 |    | 2014 – 15 |    | 2015 - 16 |    | 2016 - 17 |    |
|-----------------------------|-----------|---|-----------|----|-----------|----|-----------|----|-----------|----|
|                             | UG        |   | UG        |    | UG        |    | UG        |    | UG        |    |
|                             | S         | F | S         | F  | S         | F  | S         | F  | S         | F  |
| <b>Professors</b>           | 1         | 1 | 1         | 1  | 1         | 1  | 1         | 1  | 1         | 1  |
| <b>Associate Professors</b> | -         | - | -         | -  | -         | -  | -         | -  | -         | -  |
| <b>Assistant Professors</b> | 3         | 3 | 11        | 11 | 11        | 11 | 11        | 11 | 11        | 11 |

#### 7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

| S.No | Name                | Qualification   | Designation               | Specialization            | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|------|---------------------|-----------------|---------------------------|---------------------------|----------------------------|---------------------------------------------------|
| 1    | Dr.S.Poornachandra  | M.Tech., Ph.D.  | Professor & Dean          | Signal & Image Processing | 25 years 8 months          | Guided : 01<br>Guiding: 05                        |
| 2    | Mrs.M.Dhipa         | M.E.,(Ph.D)     | Assistant Professor (Sr.) | Applied Electronics       | 10 years 1 month           | -                                                 |
| 3    | Mr.K.Sambasiva Rao  | M.E.,           | Assistant Professor       | Control & Instrumentation | 9 years 9 months           | -                                                 |
| 4    | Mr.N.Kamala Moorthy | M.E.,(Ph.D)     | Assistant Professor       | Control & Instrumentation | 7 years 11 months          | -                                                 |
| 5    | Mr.N.Jeyakkannan    | M.Tech.,(Ph.D ) | Assistant Professor       | Instrumentation & Control | 7 years 11 months          | -                                                 |
| 6    | Ms.V.Poorani        | M.E.,           | Assistant Professor       | Control & Instrumentation | 6 years 3 months           | -                                                 |
| 7    | Ms.M.Saranya        | M.E.,           | Assistant                 | Control &                 | 5 years 7                  | -                                                 |

|    |                    |         |                     |                             |                  |   |
|----|--------------------|---------|---------------------|-----------------------------|------------------|---|
|    |                    |         | Professor           | Instrumentation             | months           |   |
| 8  | Ms.M.Brindha       | M.E.,   | Assistant Professor | Applied Electronics         | 3 years 4 months | - |
| 9  | Mrs.R.Kiruba       | M.E.,   | Assistant Professor | Control & Instrumentation   | 3 years 4 months | - |
| 10 | Mr.S.Prince Samuel | M.Tech. | Assistant Professor | Embedded system             | 2 years 2 months | - |
| 11 | Ms.U.Pavithra      | M.E.,   | Assistant Professor | Instrumentation Engineering | 1 year 4 months  | - |
| 12 | Mr. P. Arun Kumar  | M. Tech | Assistant Professor | Biomedical Engineering      | 6 Months         | - |

**8. Percentage of classes taken by temporary faculty – programme-wise information**

NIL– The department has always been adequately staffed and therefore there is no need for temporary faculty.

**9. Programme-wise Student Teacher Ratio**

| Year      | Programme | Total Students Strength | Faculty | Ratio S/T |
|-----------|-----------|-------------------------|---------|-----------|
| 2012 – 13 | UG        | 15                      | 4       | 3.6 : 1   |
| 2013 – 14 | UG        | 68                      | 8       | 8.5 : 1   |
| 2014 – 15 | UG        | 112                     | 12      | 9.3 : 1   |
| 2015 - 16 | UG        | 144                     | 12      | 12 : 1    |
| 2016 - 17 | UG        | 133                     | 12      | 11.1 : 1  |

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

**S : Sanctioned**

**F : Filled**

| Support Staff (technical) and administrative staff | 2012 - 13 |   | 2013 – 14 |   | 2014 – 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 1         | 1 | 2         | 2 | 2         | 2 | 2         | 2 | 3         | 3 |

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise : NIL**

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received :**

NIL

**13. Research facility / centre with**

- **State recognition : Nil**
- **National recognition : Nil**

- **International recognition : Nil**

#### 14. Publications:

|                                                                                                                                                                                                | 2012 - 13 | 2013 - 14 | 2014 - 15  | 2015 - 16 | 2016 - 17 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|------------|-----------|-----------|
| <b>Number of papers published in peer reviewed journals (national / international)</b>                                                                                                         | 3         | 1         | 3          | 7         | 1         |
| <b>Monographs</b>                                                                                                                                                                              | -         |           |            |           |           |
| <b>Chapter(s) in Books</b>                                                                                                                                                                     | -         |           |            |           |           |
| <b>Editing Books</b>                                                                                                                                                                           | -         |           |            |           |           |
| <b>Books with ISBN numbers with details of publishers</b>                                                                                                                                      | -         |           |            |           |           |
| <b>Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)</b> | -         | -         | Scopus: 02 | -         | -         |
| <b>Citation Index [ Range]</b>                                                                                                                                                                 | 321       |           |            |           |           |
| <b>SNIP</b>                                                                                                                                                                                    | -         |           |            |           |           |
| <b>SIR</b>                                                                                                                                                                                     | -         | -         | -          | -         | 0.17      |
| <b>Impact Factor [ Range]</b>                                                                                                                                                                  | -         | -         | -          | -         | 1.87      |
| <b>h – index [ Range]</b>                                                                                                                                                                      | -         | -         | -          | -         | 6         |

#### 15. Details of patents and income generated: NIL

#### 16. Areas of consultancy and income generated

| S.No                    | Year    | Name of the faculty                      | Area of Consultancy                                                                      | Organization                               | Income           |
|-------------------------|---------|------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------|------------------|
| 1                       | 2014-15 | Dr. K. Malarvizhi<br>Mr. Madhusudankumar | Multiple Stations garments manufacturing counter                                         | Innovative Engineering, Coimbatore         | 5,000            |
| 2                       | 2015-16 | Ms. R. Kiruba                            | Cost Effective Optimization for Personnel Monitoring System using RFID and Iris features | Vento Infotech India Pvt. Ltd., Coimbatore | 30,000           |
| 3                       |         | Mrs. M. Dhipa                            | PCB Assembling work                                                                      | KV Technologies, Coimbatore                | 5,000 (Honorary) |
| Total Income Generated: |         |                                          |                                                                                          |                                            | 35,000           |

#### 17. Faculty recharging strategies

- Financial assistance is provided to faculty members to attend workshops, conferences, seminars, etc.



- Cash prizes are awarded for the faculty members for publishing papers in referred Journals.
- Awards are given to faculty members for special achievements during college day function.

**Faculty members are motivated to attend various events. The details of event participation during last 5 years are mentioned below:**

| S.No | Events                                                                                                          | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|------|-----------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1    | Workshops/ Seminars /Conference /Industry Orientation Programs /Industrial Visits /Faculty Development Programs | 2       | 17      | 41      | 44      | 4       |

#### **18. Student projects**

- percentage of students who have done in-house projects including inter-departmental and collaboration with industries / institutes

| Year      | Student Strength | Percentage of Students Project           |                               |
|-----------|------------------|------------------------------------------|-------------------------------|
|           |                  | In-house projects and inter-departmental | Collaboration with industries |
|           | UG               | UG                                       | UG                            |
| 2014 – 15 | 13               | 7.69                                     | 23.08                         |
| 2015 – 16 | 52               | 7.69                                     | 92.31                         |
| 2016 – 17 | 46               | 76.92                                    | 23.08                         |

#### **19. Awards / recognitions received at the national and international level by**

- Faculty - NIL
- Doctoral / post doctoral fellows

| Name of the Faculty | Award    | Year |
|---------------------|----------|------|
| Dr. K. Malarvizhi   | Doctoral | 2013 |

- Students

| S.No               | Name of the Students | Prize / University Rank | Event Name                                                                                          |
|--------------------|----------------------|-------------------------|-----------------------------------------------------------------------------------------------------|
| <b>2014 – 2015</b> |                      |                         |                                                                                                     |
| 1                  | B. Surya Kannadasan  | Bronze Medal            | Otrai Kambu, Surul Vall Veechu, Vall Veechu – 3 <sup>rd</sup> World Silambam Championship, Malaysia |
| 2                  | B. Surya Kannadasan  | Silver Medal            | Vel Kambu Veechu – 3 <sup>rd</sup> World Silambam Championship, Malaysia                            |
| <b>2015- 2016</b>  |                      |                         |                                                                                                     |

|   |              |                         |                                               |
|---|--------------|-------------------------|-----------------------------------------------|
| 3 | P. Nivedhiya | 28                      | Anna University Rank                          |
| 4 | S. Indu      | 31                      | Anna University Rank                          |
| 5 | R. Venkatesh | ISTE Best Student Award | Anand Institute of Higher Technology, Chennai |
| 6 | V. Aravindan | Limca Book of Records   | -                                             |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

| S.No.              | Event<br>(Seminars/<br>Conferences/<br>Workshops) | Title                                                                     | Duration | Sources of<br>funds | Participants |
|--------------------|---------------------------------------------------|---------------------------------------------------------------------------|----------|---------------------|--------------|
| <b>2014 – 2015</b> |                                                   |                                                                           |          |                     |              |
| 1                  | Workshop                                          | Sensors for Process Instrumentation                                       | 1 day    | SNSCT               | 75           |
| <b>2015-2016</b>   |                                                   |                                                                           |          |                     |              |
| 2                  | Workshop                                          | Hands on training in Embedded System using Atmega 16 Development Board    | 2 days   | SNSCT               | 125          |
| 3                  | Workshop                                          | Hands on Training on MATLAB Scripting and Simulink Environment            | 1 day    | SNSCT               | 50           |
| 4                  | Workshop                                          | Hands on Training in Programmable Logic Controller using GE & HORNER Kits | 2 days   | SNSCT               | 50           |
| <b>2016 – 2017</b> |                                                   |                                                                           |          |                     |              |
| 5                  | Workshop                                          | Hands on Training on Internet of Things with Raspberry Pi                 | 3 days   | SNSCT               | 50           |
| 6                  | Workshop                                          | Hands on Training on PLC and Robotics                                     | 2 days   | SNSCT               | 75           |

**21. Student profile course-wise:**

| Year      | Name of the Course | Application Received | Selected |        | Pass percentage |        |
|-----------|--------------------|----------------------|----------|--------|-----------------|--------|
|           |                    |                      | Male     | Female | Male            | Female |
| UG        |                    |                      |          |        |                 |        |
| 2011-2015 | B.E EIE            | NA                   | 10       | 03     | 90              | 100    |
| 2012-2016 | B.E EIE            |                      | 34       | 18     | 73.5            | 100    |

## 22. Diversity of Students

| Name of the Course | Batch   | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| <b>B.E EIE</b>     | 2012-16 | -                              | 96                           | 04                              | -                                  |
|                    | 2013-17 | -                              | 100                          | -                               | -                                  |
|                    | 2014-18 | -                              | 98                           | 02                              | -                                  |
|                    | 2015-19 | -                              | 100                          | -                               | -                                  |
|                    | 2016-20 | -                              | 100                          | -                               | -                                  |

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

NIL

## 24. Student progression

| Student Progression             | Percentage against enrolled |       |
|---------------------------------|-----------------------------|-------|
|                                 | 2015                        | 2016  |
| <b>UG to PG</b>                 | -                           | -     |
| <b>PG to Ph.D.</b>              | -                           | -     |
| <b>Employed</b>                 |                             |       |
| • Campus selection              | 30.77                       | 89.66 |
| • Other than campus recruitment | 50                          | 10.34 |
| <b>Entrepreneurs</b>            | -                           | -     |

## 25. Diversity of staff

| UG                                        |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | 100     | 100     | 91.66   | 75      | 50      |
| from other universities within the State  | -       | -       | 8.3     | 16.67   | 25      |
| from other universities from other States | -       | -       | -       | 8.33    | 25      |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

| S.No | Year of Award | No. of Ph.D. |
|------|---------------|--------------|
| 1    | 2013          | 1            |

**27. Present details about infrastructural facilities**

**a) Library**

Total No. of books available in department library is 195 and it has project reports of all the students.

| S.No | Academic Year | Book Titles<br>(in nos.) | Book Volumes<br>(in nos.) |
|------|---------------|--------------------------|---------------------------|
| 1    | 2012 – 13     | -                        |                           |
| 2    | 2013 – 14     | 71                       | 71                        |
| 3    | 2014 – 15     | 121                      | 123                       |
| 4    | 2015 – 16     | 192                      | 195                       |
| 5    | 2016 – 17     | 192                      | 195                       |

**b) Internet facilities for staff and students**

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in Virtual Instrumentation Laboratory and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel.

**c) Total number of class rooms : 04**

| S.No | Class Room No. | Description of Room<br>(in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|------|----------------|----------------------------------|--------------------|-------------------------------------------------------------|
| 1    | C108           | 83.6                             | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 2    | C109           | 83.6                             | Exclusive          | Black Board                                                 |
| 3    | C110           | 83.6                             | Exclusive          | Black Board                                                 |
| 4    | C212           | 36.23                            | Exclusive          | Black Board                                                 |

**d) Class rooms with ICT facility: 01**

| S.No | Class Room No. | Description of Room<br>(in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|------|----------------|----------------------------------|--------------------|-------------------------------------------------------------|
| 1    | C108           | 83.6                             | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |

**e) Students' laboratories :**

| S.No | Lab No.     | Area in Sq.m | Name of the Lab                             |
|------|-------------|--------------|---------------------------------------------|
| 1    | C201 & C202 | 135.9        | Instrumentation System Design Laboratory    |
| 2    | C204 & C205 | 139.4        | Transducers and Measurements Laboratory     |
|      |             |              | Measurements and Instrumentation Laboratory |
| 3    | C208        | 88.5         | Project Laboratory                          |
| 4    | C209        | 87.8         | Virtual Instrumentation Laboratory          |
| 5    | C210        | 138.7        | Industrial Instrumentation Laboratory       |
| 6    | C211        | 138.7        | Process Control Laboratory                  |

**f) Research laboratories : NIL**

**28. Number of students of the department getting financial assistance from College.**

Total Number of Students : 21

Total Amount : 4,70,925

| Academic Year | Government        |        | Management        |        |
|---------------|-------------------|--------|-------------------|--------|
|               | Student benefited | Amount | Student benefited | Amount |
| 2013 – 14     | 01                | 10800  | 5                 | 25000  |
| 2014 – 15     | -                 | -      | 01                | 10000  |
| 2015 – 16     | 06                | 170125 | 01                | 10000  |
| 2016 - 17     | -                 | -      | 07                | 245000 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes. Department does the assessment exercise before the development of new programmes. The methodology used is

- Feedbacks are collected from the Academicians, working professionals and industrialists on the impact of implementation
- Exercises are done on possible curriculum and syllabus
- Feedbacks are collected from the society to know the demand for the programme

**30. Does the department obtain feedback from**

**a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

- Feedback is collected from faculty on curriculum during faculty meetings. Suggestions if any are taken up during BoS meetings and are ratified.
- Feedback on teaching-learning process is carried out by department dean and Teaching/ Academic Coordinators. Suggestions for improvement are conveyed to the faculty, who takes necessary steps to improve teaching-learning process.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Feedback has been collected from the students to improve the quality of the teaching-learning-evaluation through well defined feedback questions.

**Students on Staff:**

- Evaluation of staff by students is obtained from a pre-designed feedback form, containing 10 questions.
- The areas where the faculty excel and the areas where they lag are analyzed from the feedback by the Dean and suitably discussed with the faculty members.
- The faculty members receiving negative feedback are suggested to attend various programs like Faculty Development Program, Workshops, Seminars, etc.

**Students on Curriculum:**

- Suggestions are taken from Toppers, Average & Slow learners about their needs on curriculum. Based on their needs the suggestions are put forth during the Board of Studies (BoS) meeting.

**Students on Teaching-learning-Evaluation:**

The evaluation of teaching learning process is a continuous one.

- Feedback is collected from students during class committee meetings
- Confidential (personal) feedback is taken at random by dean and teaching coordinators
- A regular end semester feedback is taken to know the attainment of COs.

**Response of the Department:**

Based on the feedback from the students, the chairperson of the class committee will prepare the meeting minutes and forward it to the HoD/ Dean & Principal. The necessary actions will be initiated by the HoD/ Dean with the concern of the Principal.

**c. Alumni and employers on the programmes and what is the response of the department to the same?**

Department takes the Alumni and Employer feedback when they visit our campus. Major feedback/ suggestions collected are as follows:

- Conduction of value added programmes (both technical and soft skill)
- Conduction of communication training
- Encouraging more industrial project
- Encouraging for mini-projects

**31. List the distinguished alumni of the department (maximum 10)**

| S.No | Name of the Alumni | Batch     | Current Position | Company                       |
|------|--------------------|-----------|------------------|-------------------------------|
| 1    | J. Hari Krishnan   | 2011-2015 | QAQC Engineer    | Rotary MAC, Kuantan, Malaysia |
| 2    | C. Manoj           | 2011-2015 | QAQC Engineer    | Rotary MAC, Kuantan, Malaysia |
| 3    | D. Shree Dharsan   | 2011-2015 | QAQC Engineer    | Rotary MAC, Kuantan, Malaysia |
| 4    | M. Mohan Kumar     | 2011-2015 | QAQC Engineer    | Rotary MAC, Kuantan,          |

|    |                  |           |                             |                                                                           |
|----|------------------|-----------|-----------------------------|---------------------------------------------------------------------------|
|    |                  |           |                             | Malaysia                                                                  |
| 5  | N. Vikram        | 2011-2015 | Instrument Field Engineer   | Rotary MAC, Kuantan, Malaysia                                             |
| 6  | R. Venkatesh     | 2012-2016 | Quality Engineer            | R&D Instruments, Chennai                                                  |
| 7  | P. Nivedhiya     | 2012-2016 | Associate Software Engineer | Tech Mahindra, Chennai                                                    |
| 8  | P. Jeeva Ranjith | 2012-2016 | Application Engineer        | ECI Systems Pvt. Ltd., Coimbatore                                         |
| 9  | G. Asher Belson  | 2012-2016 | Electronic Technician       | LINSCAN Corporate office, P.O Box 49133, Hamriyah Free Zone, Sharjah, UAE |
| 10 | P. Muthu Kumar   | 2012-2016 | Application Engineer        | Wintex Engineers, Singanallur, Coimbatore                                 |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| S.No               | Name of Event | Title                                              | Date       | External Experts                                                                                         | No. of Beneficiary |
|--------------------|---------------|----------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------|--------------------|
| <b>2013 – 2014</b> |               |                                                    |            |                                                                                                          |                    |
| 1                  | Guest Lecture | Expectation of companies from Engineering Students | 12.07.2013 | Mr. Bharathi Selvaraj, Cloud Engineer, Mahendra Sathyam, Bangalore                                       | 62                 |
| 2                  | Guest Lecture | Intellectual Property Rights and Patenting         | 17.08.2013 | Mr. M.SundaraKadeswaran, Advocate & Treasurer Voice Trust, Coimbatore                                    | 62                 |
| 3                  | Guest Lecture | Industrial Automation                              | 01.03.2014 | Siva Sakthi A.K, Business Development Engineer, Axis Global Institute of Industrial Training, Coimbatore | 62                 |
| <b>2014 – 2015</b> |               |                                                    |            |                                                                                                          |                    |
| 4                  | Guest Lecture | Introduction to Automation & Drives                | 04.07.2014 | Mr. R. Chandra Sekar, Director, RSP Control Projects, Coimbatore.                                        | 58                 |
| 5                  | Guest Lecture | Electron Devices                                   | 07.07.2014 | Mr. S. Sundaramoorthy, MD, Sunshiv Electronic, Coimbatore                                                | 105                |
| 6                  | Guest Lecture | Introduction to Microcontroller                    | 10.07.2014 | Mr. M.S. Balamurugan, Quadki Technologies, Coimbatore                                                    | 58                 |
| 7                  | Guest Lecture | Industrial Automation Using Embedded & PLC         | 15.07.2014 | Mr. Ravirajapandian, Business Development & Tech. Coordinator, Tech I Automation, Coimbatore             | 62                 |
| 8                  | Guest Lecture | Introduction to Embedded Systems                   | 26.07.2014 | Mr. V. Surendar & Mr. D. Harikrishnan, RBEI, Coimbatore.                                                 | 40                 |
| 9                  | Guest Lecture | Making an Engineer                                 | 04.08.2014 | Prof. J. Asha, Dean Placement, IFET College of Engineering, Villupuram                                   | 45                 |
| 10                 | Guest Lecture | VLSI Design                                        | 05.08.2014 | Mr. S. Baskar, Project Associate, Caliber Technologies, Coimbatore.                                      | 13                 |
| 11                 | Guest Lecture | Scope for Instrumentation Engineering              | 11.08.2014 | Mr. A. Nivas, Asst. Engineer, Orchid Pharma Chemicals Pvt. Ltd., Chennai.                                | 47                 |
| 12                 | Guest Lecture | Industry & Internet                                | 14.08.2014 | Dr. Pradeep V Desai, Technology Lead, GE Global                                                          | 58                 |

|                    |               |                                                                      |            |                                                                                            |     |
|--------------------|---------------|----------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------|-----|
|                    |               |                                                                      |            | Research India, Bangalore.                                                                 |     |
| 13                 | Guest Lecture | Power of Focus                                                       | 02.09.2014 | Dr. R. Krishna Moorthy,<br>Corporate Trainer.                                              | 60  |
| 14                 | Guest Lecture | PLC                                                                  | 05.09.2014 | Mr. B. Somasundaram,<br>Manager, ZF Wind Power<br>Coimbatore Ltd.                          | 57  |
| 15                 | Guest Lecture | Communication<br>Engineering                                         | 19.09.2014 | Mr. S. Logesh Kumar, A.P<br>ECE, Kumaraguru College of<br>Techniology, Coimbatore.         | 45  |
| 16                 | Guest Lecture | Fiber Optics &<br>Laser<br>Instrumentation                           | 23.09.2014 | Dr. J. Anitha, Associate<br>Professor, ECE, Karunya<br>University, Coimbatore              | 13  |
| 17                 | Guest Lecture | Electronic Devices<br>& Circuits                                     | 23.09.2014 | Mrs. P. Vidhyalakshmi, A.P<br>(SG) EIE, Kongu<br>Engineering College, Erode                | 43  |
| 18                 | Guest Lecture | Industrial<br>Instrumentation                                        | 29.09.2014 | Mr. S. Ranganathan,<br>Instrumentation Engineer, GS<br>Software, Trichy.                   | 47  |
| 19                 | Guest Lecture | Measurements &<br>Instrumentation                                    | 30.09.2014 | Mr. S. Charles, Asst. Prof,<br>EEE, Sri Sakthi Institute of<br>Technology, Coimbatore.     | 45  |
| 20                 | Guest Lecture | Analytical<br>Instruments                                            | 01.10.2014 | Ms. S. Abirami, Asst. Prof.<br>EEE, PSG College of<br>Technology, Coimbatore.              | 38  |
| 21                 | Guest Lecture | Industrial<br>Electronics                                            | 08.10.2014 | Mr. K. Annamalai, Kamen<br>Technologies, Coimbatore.                                       | 49  |
| 22                 | Guest Lecture | Solar Energy                                                         | 24.01.2015 | Mr. Yuvaraj, Cares<br>Renewable Energy                                                     | 80  |
| 23                 | Guest Lecture | Embedded System<br>in Automation                                     | 11.02.2015 | Mr. R. Arun Kumar,<br>Research Associate, MatCom<br>Systems.                               | 58  |
| 24                 | Guest Lecture | Education In<br>Abroad                                               | 13.02.2015 | Mrs. Niharika, Internal<br>Officer, University of<br>Glasgow, UK.                          | 55  |
| 25                 | Guest Lecture | Opportunities in<br>Core Industries                                  | 10.03.2015 | Mr. S. Udaya Kumar,<br>Territory Manager, Edexcel.                                         | 64  |
| 26                 | Guest Lecture | Corporate Ethics<br>& Principles                                     | 11.03.2015 | Ms. Amritha Kailash, Talent<br>Connect Solutions,<br>Coimbatore.                           | 25  |
| 27                 | Guest Lecture | Role of<br>Instrumentation<br>Engineers in<br>Industries             | 17.03.2015 | Mr. G. Arun, Asst.<br>Instrumentation Engineer,<br>Orientational India.                    | 44  |
| <b>2015 – 2016</b> |               |                                                                      |            |                                                                                            |     |
| 28                 | Guest Lecture | Internet of Things<br>(IoT) and CREO<br>application<br>demonstration | 04.07.2015 | Mr. Anand, Matcom Systems,<br>Coimbatore                                                   | 44  |
| 29                 | Guest Lecture | Awareness<br>Program on Yoga                                         | 04.07.2015 | Dr. V.P Arivazhagan,<br>Director, Indian Institute of<br>Yoga & Naturopathy,<br>Coimbatore | 110 |
| 30                 | Guest Lecture | Basics of<br>Automation                                              | 06.07.2015 | Mr. Thilibhan Babu S,<br>Inventor Automation,<br>Coimbatore                                | 98  |
| 31                 | Guest Lecture | Education in<br>Abroad                                               | 21.07.2015 | Mr. Dhinesh Kumar .M,<br>Edwise Consultants Pvt., Ltd.,<br>Coimbatore                      | 52  |
| 32                 | Guest Lecture | Introduction to<br>Automation                                        | 21.07.2015 | Mr. S. Frantin Bruno,<br>Orbits Automation,<br>Coimbatore                                  | 45  |
| 33                 | Guest Lecture | Industrial                                                           | 23.07.2015 | Mr. Senthil,                                                                               | 46  |



|                    |               |                                                   |            |                                                                                       |     |
|--------------------|---------------|---------------------------------------------------|------------|---------------------------------------------------------------------------------------|-----|
|                    |               | Electronics                                       |            | Mighty Electronics Equipments Corporation, Coimbatore.                                |     |
| 34                 | Guest Lecture | Embedded Systems                                  | 24.07.2015 | Prof.K.Rajasekaran, HOD – EIE, Karunya University, Coimbatore                         | 85  |
| 35                 | Guest Lecture | Transforming Engineers into Entrepreneurs         | 31.07.2015 | Mr.Sudhakar Raju, Udyog Upsana, Coimbatore.                                           | 32  |
| 36                 | Guest Lecture | Communication Engineering                         | 10.08.2015 | Mr.S. Bharati, AWS Solution Architect, Chennai                                        | 42  |
| 37                 | Guest Lecture | Preplacement Introduction to Tech Mahindra        | 10.08.2015 | Mr.S. Bharati, AWS Solution Architect, Chennai                                        | 21  |
| 38                 | Guest Lecture | Mobile Application & its Importance               | 22.09.2015 | N. Sowmya, Manager - Training, Vaiha Mobile App. Training, Coimbatore.                | 44  |
| 39                 | Guest Lecture | Digital Electronics                               | 28.09.2015 | Mr. V.A. Saravanan, Technical Head, Quadki Technologies, Chennai.                     | 41  |
| 40                 | Guest Lecture | Embedded Systems Applications in Avionics         | 11.01.2016 | Mr.Sridhar Eswaran, Director, Jetnav Technologies, Bangalore.                         | 41  |
| 41                 | Guest Lecture | Linear Integrated Circuits                        | 22.03.2016 | Mrs. Kavitha B, Steps Knowledge Services Ltd., Coimbatore.                            | 40  |
| 42                 | Guest Lecture | Bio Medical Instrumentation                       | 31.03.2016 | Mrs.D.Hemapiya, Assistant Professor, Dr.N.G.P. Institute of Technology, Coimbatore.   | 39  |
| 43                 | Guest Lecture | Robotics & Automation                             | 02.04.2016 | Mr. K. Kumar, Software Specialist, Car Infotainment, Robert Bosch, Coimbatore.        | 51  |
| 44                 | Guest Lecture | Embedded Systems                                  | 18.04.2016 | Mr. Alex, Embedded Engineer, Robert Bosch Engineering Solutions, Coimbatore.          | 44  |
| 45                 | Guest Lecture | An Industrial Approach to PLC and SCADA           | 18.04.2016 | Mr.K.Ilanchezian, Technical Manager, Prolific Systems, Coimbatore.                    | 39  |
| <b>2016 – 2017</b> |               |                                                   |            |                                                                                       |     |
| 46                 | Guest Lecture | Overview of Core Industries                       | 08.07.2016 | Mr. S. Ram Prasad, Consultant Head/ Business Media Nexus, Chennai                     | 46  |
| 47                 | Guest Lecture | Career Guidance on Advanced Industrial Automation | 14.07.2016 | Mr. M. Ashok Kumar, Application Engineer, Axis Global Automation, Coimbatore          | 46  |
| 48                 | Guest Lecture | Preplacement Introduction to Tech Mahindra        | 25.07.2016 | Ms. P. Nivedhiya (Alumni), Associate Software Engineer, Tech Mahindra, Chennai        | 32  |
| 49                 | Guest Lecture | Expectations of core industries from frsher       | 26.07.2016 | Mr. P. JeevaRanjith (Alumni), Application Engineer, ECI Systems Pvt. Ltd., Coimbatore | 46  |
| 50                 | Guest Lecture | Recent Trends in Embedded Systems                 | 06.08.2016 | Dr. S. Maheswaran, AP(SG), ECE Department, Kongu Engineering College, Erode           | 44  |
| 51                 | Guest Lecture | Role of Instrumentation                           | 12.08.2016 | Mr. J. Vishnuvarthan, Chairman & MD, Trend                                            | 105 |

|    |               |                                          |            |                                                                                                  |    |
|----|---------------|------------------------------------------|------------|--------------------------------------------------------------------------------------------------|----|
|    |               | Engineer in Core Industry                |            | Instrumentation and Automation, Chennai                                                          |    |
| 52 | Guest Lecture | Internet of Things                       | 18.08.2016 | Mr. V. Surendar, Mr. K. M. Sadik Ali, Embedded Software Engineers, Azetech Solutions, Coimbatore | 44 |
| 53 | Guest Lecture | Preplacement talk – Tech Mahindra        | 19.08.2016 | Mr. K. M. Sadik Ali, Embedded Software Azetech Solutions, Coimbatore                             | 32 |
| 54 | Guest Lecture | Orientation Program of BOG               | 09.09.2016 | Mr. R. Venkatesh (Alumni), Quality Engineer, R&D Instruments, Chennai                            | 30 |
| 55 | Guest Lecture | Digital Electronics and its Applications | 13.10.2016 | Mr. X. Anitha Mary, Associate Professor, Karunya University, Coimbatore                          | 40 |

**33. List the teaching methods adopted by the faculty for different programmes.**

- Video Lectures (Eg. NPTEL)
- Technical Quiz/ Puzzles
- Analogies
- Seminars
- Case Studies
- Tutorials
- Mini projects
- Use of Demonstrable models
- Industrial Visits
- Subject specific Internships/In-Plant Training
- Subject related Guest Lectures
- Hands-On training through Workshops
- Special coaching for Slow Learners

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The department ensures the attainment of programme objectives via various direct and indirect methods like Internal Assessment Examinations, End Semester Examinations, Quiz, Puzzles, assignments, seminars, case studies, mini projects, Students Feedback, Slow Learners Coaching classes and Class committee meetings.

**35. Highlight the participation of students and faculty in extension activities.**

- Fifteen students accompanied by three faculty members conducted a social awareness programme on “Prevention of Dengue Fever” at Kovilpalayam on 21.02.2015.
- Fifteen students accompanied by five faculty members organized on social awareness programme on “Energy Conservation” at Keeranatham on 02.04.2016.

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- Mini-project
- One credit Courses
- In-plant training/ Internship
- Consultancy & Research Activities
- Delivering Guest Lectures to other colleges
- Organizing Workshops/Guest Lectures/ Seminars
- Presenting papers in Symposium/ National/ International Conferences

- Organizing Symposium/ National/ International Conferences

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

College is NAAC Accredited

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

| <b>STRENGTHS</b>                                                                                                                                                                                                                                                                                                                                              | <b>WEAKNESSES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Well Qualified Faculty with diversity in specialization</li> <li>2. Well equipped laboratories</li> <li>3. Offering Value Added Program</li> <li>4. Forming peer group (best, average and slow learners) to increase the pass percentage</li> <li>5. Wi-Fi enabled campus</li> </ol>                                | <ol style="list-style-type: none"> <li>1. Industrial linkage</li> <li>2. Heterogeneous mixture of students</li> <li>3. Un-awareness about the department among stakeholders</li> <li>4. Need to promote funding from government funding agencies for organizing seminar, workshops, conferences, etc.</li> </ol>                                                                                                                                          |
| <b>OPPORTUNITIES</b>                                                                                                                                                                                                                                                                                                                                          | <b>CHALLENGES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <ol style="list-style-type: none"> <li>1. Automation of Industrial sector which create better job opportunities</li> <li>2. Scope for strengthening funding research</li> <li>3. Scope for strengthening consultancy work</li> <li>4. Technological business incubator to create more entrepreneurs</li> <li>5. Placement in international company</li> </ol> | <ol style="list-style-type: none"> <li>1. Fluctuation in the market demand</li> <li>2. Availability of experienced professional</li> <li>3. Growing competition from nearby colleges for admission</li> <li>4. To make adequate job opportunities for students in core companies with good salary packages</li> <li>5. Faculty retention</li> <li>6. Inadequate preparation of the incoming students due to prevailing school education system</li> </ol> |

**39. Future plans of the department.**

- To establish a IOT based process automation lab
- Center of Excellence in Calibration and automation process
- To obtain NBA status
- To get top Multinational companies for Campus Recruitment
- Consultancy with leading corporate
- Collaborative Research in Emerging Areas
- Establishing Research Center in association with funding agencies and industries
- Faculty and Student Exchange Programmes with foreign universities
- More number of publications
- At least 50% of faculty with PhD qualifications

## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

Name of the Department: **Information Technology**

Year of Establishment: **2002**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| Programme level | Programmes offered | Year of Establishment | Initial Intake | Year of Increase in Intake / Strength | NBA Accredited / Others       |
|-----------------|--------------------|-----------------------|----------------|---------------------------------------|-------------------------------|
| UG Programme    | B.Tech IT          | 2002                  | 60             | -                                     | NBA Accredited Till July 2017 |
| PG Programme    | M.Tech IT          | 2009                  | 18             | -                                     | -                             |

### 3. Interdisciplinary courses and departments involved

| S.No | Interdisciplinary Courses            | Semester | Department               |
|------|--------------------------------------|----------|--------------------------|
| 1.   | Technical English – I                | I        | Science and Humanities   |
| 2.   | Engineering Mathematics – I          |          | Science and Humanities   |
| 3.   | Engineering Physics                  |          | Science and Humanities   |
| 4.   | Engineering Chemistry                |          | Science and Humanities   |
| 5.   | Basic Civil & Mechanical Engineering |          | Mechanical Engineering   |
| 6.   | Career Development Program I         |          | Skill/Career Development |
| 7.   | Physics Laboratory                   |          | Science and Humanities   |
| 8.   | Engineering Practices Laboratory     |          | Mechanical Engineering   |
| 9.   | Technical English – II               | II       | Science and Humanities   |
| 10.  | Engineering Mathematics-II           |          | Science and Humanities   |
| 11.  | Physics of Materials                 |          | Science and Humanities   |
| 12.  | Environmental Science and            |          | Science and Humanities   |

| S.No | Interdisciplinary Courses                     | Semester | Department                                |
|------|-----------------------------------------------|----------|-------------------------------------------|
|      | Engineering                                   |          |                                           |
| 13.  | Engineering Graphics                          |          | Mechanical Engineering                    |
| 14.  | Career Development Program II                 |          | Skill/Career Development                  |
| 15.  | Communication skills Laboratory               |          | Science and Humanities                    |
| 16.  | Chemistry Laboratory                          |          | Science and Humanities                    |
| 17.  | Transforms and partial Differential Equations | III      | Science and Humanities                    |
| 18.  | Digital Electronics                           |          | Electronics and Communication Engineering |
| 19.  | Electronic Devices and Circuits               |          | Electrical and Electronics Engineering    |
| 20.  | Career Development Program–III                |          | Skill/Career Development                  |
| 21.  | Digital Electronics Laboratory                |          | Electronics and Communication Engineering |
| 22.  | Statistics and Numerical Methods              | IV       | Science and Humanities                    |
| 23.  | Microprocessor and Micro controller           |          | Electronics and Communication Engineering |
| 24.  | Career Development Program–IV                 |          | Skill/Career Development                  |
| 25.  | Probability and Queuing Theory                | V        | Science and Humanities                    |
| 26.  | Career Development Program–VI                 | VI       | Skill/Career Development                  |

#### 4. Annual/ semester/choice based credit system

| S.No | Academic Year | Years / Semester    | System followed                  |
|------|---------------|---------------------|----------------------------------|
| 1    | 2013 – 14     | All years           | Semester System R2013            |
| 2    | 2014 – 15     | All years           | Semester System R2013            |
| 3    | 2015 – 16     | II, III, & IV years | Semester System R2013            |
|      |               | I year              | Choice Based Credit System R2015 |
| 4    | 2016 – 17     | III & IV years      | Semester System R2013            |
|      |               | II year             | Choice Based Credit System R2015 |
|      |               | I year              | Choice Based Credit System R2016 |

**5. Participation of the department in the courses offered by other departments**

| S.No | Courses offered                           | Departments involved               |
|------|-------------------------------------------|------------------------------------|
| 1    | Fundamentals of Computing and Programming | B.E (AERO, CIVIL, MCT, MECH, AGRI) |
| 2    | Data structures and algorithms            | B.E ECE                            |
| 3    | Data structures and algorithms Lab        | B.E ECE                            |
| 4    | Object Oriented Programming using C++     | B.E (ECE, MCT)                     |
| 5    | Object Oriented Programming using C++ Lab | B.E (ECE, MCT)                     |

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

|                             | 2012 - 13 |    |    |   | 2013 – 14 |    |    |   | 2014 – 15 |    |    |   | 2015 - 16 |    |    |   | 2016 - 17 |    |    |   |
|-----------------------------|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|
|                             | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   |
|                             | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F |
| <b>Professors</b>           | 2         | 2  | -  | - | 2         | 2  | -  | - | 1         | 1  | -  | - | 1         | 1  | -  | - | 1         | 1  | -  | - |
| <b>Associate Professors</b> | 1         | 1  | 1  | 1 | 1         | 1  | 1  | 1 | 1         | 1  | 1  | 1 | 1         | 1  | 1  | 1 | 1         | 1  | 1  | 1 |
| <b>Assistant Professors</b> | 15        | 15 | 5  | 5 | 15        | 15 | 6  | 6 | 13        | 13 | 2  | 2 | 11        | 11 | 2  | 2 | 12        | 12 | 2  | 2 |

**S: Sanctioned**

**F: Filled**

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| S.No | Name               | Qualification            | Designation         | Specialization        | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|------|--------------------|--------------------------|---------------------|-----------------------|----------------------------|---------------------------------------------------|
| 1.   | Dr.L.M.Nithya      | B.E., M.E., Ph.D         | Professor & Head    | Distributed Computing | 15                         | -                                                 |
| 2.   | Dr.J.Shanthini     | B.E., M.E., Ph.D         | Associate Professor | Grid Computing        | 12.6                       | Guiding:8                                         |
| 3.   | Prof.M.Kalimuthu   | MCA., M.Tech., (Ph.D)    | Associate Professor | Data Mining           | 11.5                       | -                                                 |
| 4.   | Ms.K.Rajakumari    | B.Tech., M.Tech., (Ph.D) | Assistant Professor | Cloud Computing       | 9.10                       | -                                                 |
| 5.   | Ms.T.Shanmugapriya | B.E., M.Tech.,           | Assistant Professor | Networks              | 8.10                       | -                                                 |

| S.No | Name                    | Qualification            | Designation         | Specialization           | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|------|-------------------------|--------------------------|---------------------|--------------------------|----------------------------|---------------------------------------------------|
| 6.   | Ms.G.Kalpana            | B.E., M.E.,              | Assistant Professor | Networks                 | 9                          |                                                   |
| 7.   | Mr.C.Senthil Kumar      | MCA., M.E., (Ph.D)       | Assistant Professor | Data Mining              | 7.11                       | -                                                 |
| 8.   | Ms. K. Sangeetha        | B.E., M.E.,              | Assistant Professor | Wireless Sensor Networks | 8.5                        | -                                                 |
| 9.   | Mr.J.T.Thirukrishna     | B.E., M.E., (Ph.D)       | Assistant Professor | Wireless Sensor Networks | 6.5                        | -                                                 |
| 10.  | Mr.M.Udhayamoorthi      | B.Tech., M.Tech., (Ph.D) | Assistant Professor | MANET                    | 8                          | -                                                 |
| 11.  | Mr. J.Rajeshkumar       | B.E., M.Tech., (Ph.D)    | Assistant Professor | Optimization Algorithms  | 5.5                        | -                                                 |
| 12.  | Ms. J. Vasuki           | B.Tech., M.E.,           | Assistant Professor | Data Sciences            | 6.5                        | -                                                 |
| 13.  | Mr.K.S.Mohan            | B.E., M.E.,              | Assistant Professor | Software Engineering     | 4.5                        | -                                                 |
| 14.  | Ms.M.Nandhini           | B.Tech., M.E.,           | Assistant Professor | Networks                 | 4.4                        | -                                                 |
| 15.  | Ms.K.Ramya Priya        | B.E., M.E.,              | Assistant Professor | Network Security         | 1.5                        | -                                                 |
| 16.  | Ms.S.Priyadarshini      | B.E., M.E.,              | Assistant Professor | Networks                 | 1.5                        | -                                                 |
| 17.  | Ms.V.S.Krithikaa Venket | B.E., M.E.,              | Assistant Professor | Networks                 | 5 Months                   | -                                                 |

#### 8. Percentage of classes taken by temporary faculty – programme-wise information

NIL– The department has always been adequately staffed and therefore there is no need for temporary faculty.

#### 9. Programme-wise Student Teacher Ratio

| Year      | Programme | Total Students Strength | Faculty | Ratio S/T |
|-----------|-----------|-------------------------|---------|-----------|
| 2012 – 13 | UG        | 183                     | 18      | 10.2:1    |
|           | PG        | 72                      | 6       | 12:1      |
| 2013 – 14 | UG        | 171                     | 18      | 9.5:1     |
|           | PG        | 53                      | 7       | 7.6:1     |
| 2014 – 15 | UG        | 152                     | 15      | 10.1:1    |
|           | PG        | 31                      | 3       | 10.3:1    |
| 2015 - 16 | UG        | 149                     | 13      | 11.5:1    |
|           | PG        | 15                      | 3       | 5:1       |
| 2016 - 17 | UG        | 134                     | 15      | 8.9:1     |
|           | PG        | 1                       | 3       | 1:3       |

**10. Number of academic support staff (technical) and administrative staff: Sanctioned and Filled**

| Support Staff (technical) and administrative staff | 2012 - 13 |   | 2013 - 14 |   | 2014 - 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 3         | 3 | 3         | 3 | 3         | 3 | 3         | 3 | 3         | 3 |

**S: Sanctioned**

**F: Filled**

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. NIL**

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received** NIL

**13. Research facility / centre with**

- state recognition - Nil
- national recognition - Nil
- international recognition - Nil

**14. Publications:**

|                                                                                                                                                                                                | 12 - 13                       | 13 - 14           | 14 - 15           | 15 - 16                        | 16 - 17           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------|-------------------|--------------------------------|-------------------|
| <b>Number of papers published in peer reviewed journals (national / international)</b>                                                                                                         | 66                            | 34                | 48                | 20                             | 6                 |
| <b>Monographs</b>                                                                                                                                                                              | -                             |                   |                   |                                |                   |
| <b>Chapter(s) in Books</b>                                                                                                                                                                     |                               |                   |                   |                                |                   |
| <b>Editing Books</b>                                                                                                                                                                           |                               |                   |                   |                                |                   |
| <b>Books with ISBN numbers with details of publishers</b>                                                                                                                                      |                               |                   |                   |                                |                   |
| <b>Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)</b> | Scopus -1<br>Google Scholar-5 | Google Scholar-10 | Google Scholar-12 | Scopus -2<br>Google Scholar-17 | Google Scholar-21 |
| <b>Citation Index [Range]</b>                                                                                                                                                                  | 1-24                          |                   |                   |                                |                   |
| <b>SNIP</b>                                                                                                                                                                                    | 0.229 - 0.531                 |                   |                   |                                |                   |
| <b>SJR</b>                                                                                                                                                                                     | 0.183 - 0.35                  |                   |                   |                                |                   |
| <b>Impact Factor [Range]</b>                                                                                                                                                                   | 1.1 - 6.57                    |                   |                   |                                |                   |
| <b>h – index [Range]</b>                                                                                                                                                                       | 1- 2                          |                   |                   |                                |                   |



**15. Details of patents and income generated – NIL****16. Areas of consultancy and income generated**

| S.No                     | Year      | Name of the faculty                 | Area of Consultancy                    | Organization                                         | Income    |
|--------------------------|-----------|-------------------------------------|----------------------------------------|------------------------------------------------------|-----------|
| 1                        | 2012-2013 | Dr.L.M.Nithya                       | Billing and Stock maintenance Software | Locks and More                                       | Good Will |
| 2                        | 2015-2016 | Dr.L.M.Nithya<br>Dr.J.Shanthini     | Website creation                       | R.J.Matricluation School, Cheran Managar, Coimbatore | 5000      |
| 3                        | 2015-2016 | Dr.L.M.Nithya<br>Mr.M.Udhayamoorthi | Billing Software                       | S.P. Associates, Sathyamangalam                      | 10000     |
| 4                        | 2016-2017 | Dr.J.Shanthini, K.S.Mohan           | Mobile App                             | Subam Clinic, Erode                                  | 25000     |
| 5                        |           | Dr.J.Shanthini, K.S.Mohan           | Defect Analysis Modules                | R.K.Cottons Tirupur                                  | 25000     |
| 6                        |           | Dr.L.M.Nithya                       | Controlling Software                   | Scube                                                | 50000     |
| Total Income Generated : |           |                                     |                                        | 1,15,000                                             |           |

**17. Faculty recharging strategies**

- Experts from industry and academia are invited to give guest lectures on research oriented, industry oriented, society oriented problems and topics related to emerging areas to motivate the faculty
- Faculty are motivated to attend various events like

| S.No | Events                                                                                                              | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 |
|------|---------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|
| 1    | Workshops / Seminars / Conference/ Industry Orientation Programs / Industrial Visits / Faculty Development Programs | 154   | 124   | 92    | 72    | 54    |

## 18. Student projects

- percentage of students who have done in-house projects including inter-departmental and collaboration with industries / institutes

| Year      | Student Strength |    | Percentage of Students Project           |      |                               |      |
|-----------|------------------|----|------------------------------------------|------|-------------------------------|------|
|           |                  |    | In-house projects and inter-departmental |      | Collaboration with industries |      |
|           | UG               | PG | UG                                       | PG   | UG                            | PG   |
| 2012 - 13 | 64               | 36 | 100                                      | 100  | -                             | -    |
| 2013 - 14 | 67               | 36 | 100                                      | 100  | -                             | -    |
| 2014 - 15 | 52               | 17 | 28.8                                     | 64.7 | 71.2                          | 35.3 |
| 2015 - 16 | 52               | 14 | 100                                      | 28.6 | -                             | 71.4 |
| 2016 - 17 | 48               | 01 | 87.5                                     | 100  | 12.5                          | 0    |

## 19. Awards / recognitions received at the national and international level by

- Faculty - NIL
- Doctoral / post doctoral fellows

| Name of the Faculty | Award    | Year |
|---------------------|----------|------|
| Dr.L.M.Nithya       | Doctoral | 2013 |

- Students

| S.No               | Name of the Students | Prize / University Rank | Event Name                                      |
|--------------------|----------------------|-------------------------|-------------------------------------------------|
| <b>2012 - 2013</b> |                      |                         |                                                 |
| 1                  | R.Mehala             | 21                      | Anna University Rank                            |
| 2                  | R.Bama Rukmani       | 28                      |                                                 |
| 3                  | R.Sowmi              | 28                      |                                                 |
| 4                  | RamyaPriya           | 38                      |                                                 |
| 5                  | S.Rubini             | 48                      |                                                 |
| 6                  | A.Anitha             | 5                       |                                                 |
| 7                  | K.Jayakumar          | 8                       |                                                 |
| 8                  | M.Manochitra         | 9                       |                                                 |
| 9                  | J.Arun Prakash       | I                       | ISTE Best Student Award                         |
| 10                 | R.Vineeth            | I                       | Best Coder – PPG Institute of Technology        |
| 11                 | M.Brinda             | I                       | Paper Presentation – CSI College of Engineering |
| 12                 | J.Arun Prakash       | I                       | Online Quiz – KSR College of Technology         |
| <b>2013- 2014</b>  |                      |                         |                                                 |
| 13                 | R.Vadivukkarasi      | 44                      | Anna University Rank                            |
| 14                 | N.Vikasini           | 44                      | Anna University Rank                            |
| 15                 | S.Ganeshpriyanka     | 44                      |                                                 |
| 26                 | V.Jothiprakash       | 6                       |                                                 |

| S.No        | Name of the Students   | Prize / University Rank | Event Name                                                                                           |
|-------------|------------------------|-------------------------|------------------------------------------------------------------------------------------------------|
| 17          | R.Ramyapriya           | 6                       | Anna University Rank                                                                                 |
| 18          | K.Sakthipriya          | 10                      |                                                                                                      |
| 2014 - 2015 |                        |                         |                                                                                                      |
| 19          | D.Yokesh               | I                       | Multimedia – KGiSL Institute of Technology                                                           |
| 20          | D.Yokesh               | I                       | Fotomontaggio – Bannari Amman Institute of Technology                                                |
| 21          | D.Yokesh               | I                       | Plakat Dizayn - Bannari Amman Institute of Technology                                                |
| 22          | P.Samyuktha            | I                       | Seizel’15 –Gagasan – Dr.G.Damodaran College of Science                                               |
| 23          | D.Ranjani              | Best Paper Award        | National Conference on Advanced Computing Systems – Hindusthan College of Engineering and Technology |
| 2015 - 2016 |                        |                         |                                                                                                      |
| 24          | P.Samyuktha            | Best Paper Award        | Paper Presentation – Sri Shakthi Institute of Engineering and Technology                             |
| 25          | Mayank Prakash Malviya | I (Cash prize)          | Paper Presentation - Sri Shakthi Institute of Engineering and Technology                             |
| 26          | Tamil selvi S          | I                       | Paper Presentation – Manchester Inn, Coimbatore                                                      |
| 27          | Samyuktha P            | I                       | Paper Presentation – Manchester Inn, Coimbatore                                                      |
| 28          | Rathiesh N             | Best Presentation Award | Paper Presentation – Manchester Inn, Coimbatore                                                      |
| 2016 - 2017 |                        |                         |                                                                                                      |
| 29          | S.Barathi              | I                       | Essay Writing                                                                                        |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

| S.NO               | Event ( Seminars/ Conferences/Work shops) | Title                                       | Duration | Sources of funds | Participants |
|--------------------|-------------------------------------------|---------------------------------------------|----------|------------------|--------------|
| <b>2012 - 2013</b> |                                           |                                             |          |                  |              |
| 1                  | Seminar                                   | Enterprise Computing with IBM               | 1 day    | SNSCT            | 111          |
| 2                  | Workshop                                  | 2D and 3D Animation                         | 1 day    | SNSCT            | 200          |
| 3                  | Seminar                                   | High Performance Computing & Cyber Security | 2 days   | CSIR             | 300          |
| 4                  | Conference                                | Advanced memory management and Networking   | 1 day    | SNSCT            | 280          |

| S.NO               | Event<br>( Seminars/<br>Conferences/Work<br>shops) | Title                                                                                               | Duration | Sources of<br>funds | Participants |
|--------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------|---------------------|--------------|
| 5                  | Symposium                                          | Employability in IT Sectors                                                                         | 1 day    | SNSCT               | 350          |
| <b>2013-2014</b>   |                                                    |                                                                                                     |          |                     |              |
| 6                  | Seminar                                            | Employability in Defense and DRDO                                                                   | 1 day    | SNSCT               | 60           |
| 7                  | Seminar                                            | Roles Deliverables in Software Development Phases in Cloud Environment                              | 1 day    | SNSCT               | 50           |
| 8                  | Seminar                                            | Green Computing for Sustainability                                                                  | 1 day    | AICTE               | 200          |
| 9                  | Symposium                                          | Current IT Industry and Recent Developments                                                         | 1 day    | SNSCT               | 112          |
| 10                 | Conference                                         | E-commerce and Entrepreneurship                                                                     | 1 day    | SNSCT               | 100          |
| <b>2014 - 2015</b> |                                                    |                                                                                                     |          |                     |              |
| 11                 | Seminar                                            | Web Designing & PHP                                                                                 | 1 day    | SNSCT               | 120          |
| 12                 | Seminar                                            | Virtualization PaaS                                                                                 | 1 day    | SNSCT               | 180          |
| 13                 | Training                                           | Cognizant Outreach-Bridge IT                                                                        | 1 day    | SNSCT               | 105          |
| 14                 | Seminar cum events                                 | Software Freedom Day                                                                                | 1 day    | SNSCT               | 27           |
| 15                 | Workshop                                           | Big Data Analytics and Hadoop                                                                       | 2 days   | SNSCT               | 60           |
| 16                 | Seminar                                            | Importance of Microsoft Certifications                                                              | 1 day    | SNSCT               | 240          |
| 17                 | Seminar                                            | Career Guidance to Higher Education                                                                 | 1 day    | SNSCT               | 60           |
| 18                 | Workshop                                           | ISTE workshop on CISCO Packet Tracer                                                                | 1 day    | SNSCT               | 50           |
| 19                 | International Conference                           | Soft computing and network security                                                                 | 3 days   | SNSCT               | 400          |
| 20                 | International Seminar                              | Andes Embedded Processor: IOT on wearable Technologies& Sharing and Controlling Internet of things” | 1 day    | SNSCT               | 320          |
| 21                 | Symposium                                          | Placement Opportunities                                                                             | 2 days   | SNSCT               | 34           |
| <b>2015 - 2016</b> |                                                    |                                                                                                     |          |                     |              |
| 22                 | International Seminar                              | Enhancement in Research and Scientific Writing                                                      | 1 day    | SNSCT               | 68           |
| 23                 | International Seminar                              | Enhancing Research Excellence                                                                       | 1 day    | SNSCT               | 68           |
| 24                 | International Seminar                              | Research Trends and opportunities in Internet of Things                                             | 1 day    | SNSCT               | 50           |
| 25                 | Seminar                                            | Higher Studies in Foreign Universities                                                              | 1 day    | SNSCT               | 240          |
| 26                 | Engineer's Day                                     | Recent Trends in IT                                                                                 | 1 day    | SNSCT               | 200          |
| 27                 | Software Freedom Day                               | Open source Softwares                                                                               | 1 day    | SNSCT               | 250          |
| 28                 | Seminar                                            | Open source Softwares:Challenges and Issues                                                         | 1 day    | SNSCT               | 250          |
| 29                 | Workshop(Hands on Training)                        | Hands on Training on Android Development                                                            | 2 days   | SNSCT               | 48           |
| 30                 | Seminar                                            | IBM Bluemix                                                                                         | 1 day    | SNSCT               | 430          |

| S.NO               | Event<br>( Seminars/<br>Conferences/Work<br>shops) | Title                                                                | Duration | Sources of<br>funds | Participants |
|--------------------|----------------------------------------------------|----------------------------------------------------------------------|----------|---------------------|--------------|
| 31                 | Symposium                                          | Opportunities for Engineers<br>in IT Sector<br>TEXPERIA 2015-16      | 2 days   | SNSCT               | 140          |
| 32                 | Workshop                                           | Ethical Hacking                                                      | 1 day    | SNSCT               | 89           |
| 33                 | Seminar                                            | IBM MAINFRAME<br>TECHNOLOGY                                          | 1 day    | SNSCT               | 200          |
| 34                 | FDP & Workshop                                     | Internet of Things                                                   | 2 days   | SNSCT               | 30           |
| 35                 | National Seminar                                   | Future of Wireless<br>Technology 5G & 6G                             | 1 day    | SNSCT               | 275          |
| 36                 | FDP                                                | Design and Analysis of<br>algorithms                                 | 1 day    | SNSCT               | 20           |
| 37                 | International<br>Seminar                           | Recent Development and<br>Emerging Trends in Research<br>Methodology | 1 day    | SNSCT               | 150          |
| 38                 | International<br>Seminar                           | IoT-Smart City Perspective                                           | 1 day    | SNSCT               | 200          |
| 39                 | Workshop                                           | Cloud Computing                                                      | 1 day    | SNSCT               | 48           |
| 40                 | National<br>Conference                             | NCNICS 16                                                            | 1 day    | SNSCT               | 200          |
| 41                 | Seminar                                            | IOT and Open Source                                                  | 1 day    | SNSCT               | 150          |
| <b>2016 - 2017</b> |                                                    |                                                                      |          |                     |              |
| 42                 | Workshop                                           | Internet of Things                                                   | 1 day    | SNSCT               | 25           |
| 43                 | Seminar                                            | Ennangalum Vannangalum                                               | 1 day    | SNSCT               | 150          |
| 44                 | Workshop                                           | Internet of Things                                                   | 1 day    | ISTE                | 35           |
| 45                 | Seminar                                            | GATE Awareness Program                                               | 1 day    | SNSCT               | 50           |
| 46                 | Workshop                                           | Hands on Training in<br>Photoshop and corel draw                     | 1 day    | SNSCT               | 37           |
| 47                 | Technical Event                                    | Engineers Day Celebration                                            | 1 day    | SNSCT               | 134          |
| 48                 | Software Freedom<br>Day-2016                       | Hands on Training in FOSS                                            | 1 day    | SNSCT               | 175          |
| 49                 | Workshop                                           | Hands on Training Cloud<br>Computing                                 | 1 day    | SNSCT               | 55           |
| 50                 | Workshop                                           | Android App Development                                              | 1 day    | SNSCT               | 48           |
| 51                 | Seminar                                            | Interview Ethics                                                     | 1 day    | SNSCT               | 48           |
| 52                 | Seminar                                            | Studies in Abroad                                                    | 1 day    | SNSCT               | 48           |

## 21. Student profile course-wise:

| Year    | Name of the Course | Application Received | Selected |        | Pass percentage |        |
|---------|--------------------|----------------------|----------|--------|-----------------|--------|
|         |                    |                      | Male     | Female | Male            | Female |
| UG      |                    |                      |          |        |                 |        |
| 2009-13 | B.Tech IT          | NA                   | 35       | 28     | 65.7            | 92.9   |
| 2010-14 | B.Tech IT          |                      | 31       | 36     | 54.8            | 88.9   |
| 2011-15 | B.Tech IT          |                      | 24       | 28     | 70.8            | 100    |
| 2012-16 | B.Tech IT          |                      | 14       | 38     | 78.6            | 100    |
| PG      |                    |                      |          |        |                 |        |
| 2011-13 | M.Tech IT          | NA                   | 14       | 22     | 100             | 100    |
| 2012-14 | M.Tech IT          |                      | 14       | 22     | 100             | 100    |
| 2013-15 | M.Tech IT          |                      | 06       | 11     | 100             | 100    |
| 2014-16 | M.Tech IT          |                      | 02       | 12     | 100             | 100    |

## 22. Diversity of Students

| Name of the Course | Year    | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| <b>B.Tech IT</b>   | 2012-16 | -                              | 100                          | -                               | -                                  |
|                    | 2013-17 | -                              | 100                          | -                               | -                                  |
|                    | 2014-18 | -                              | 97.9                         | 2.1                             | -                                  |
|                    | 2015-19 | -                              | 100                          | -                               | -                                  |
|                    | 2016-20 | -                              | 98.2                         | 1.8                             | -                                  |
| <b>M.Tech IT</b>   | 2012-14 | -                              | 100                          | -                               | -                                  |
|                    | 2013-15 | 11.8                           | 88.2                         | -                               | -                                  |
|                    | 2014-16 | 14.3                           | 85.7                         | -                               | -                                  |
|                    | 2015-17 | -                              | 100                          | -                               | -                                  |
|                    | 2016-18 | -                              | -                            | -                               | -                                  |

## 23. Students clearing Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

| S.No | Year of Passed out | Name of the Competitive Exam | No. of students cleared |         |
|------|--------------------|------------------------------|-------------------------|---------|
|      |                    |                              | Appeared                | Cleared |
| 1    | 2012               | GATE                         | 2                       | -       |
|      |                    | TANCET                       | 8                       | 8       |
|      |                    | Others                       | 1                       | 1       |
| 2    | 2013               | GATE                         | 7                       | -       |
|      |                    | TANCET                       | 8                       | 8       |
|      |                    | IELTS                        | 2                       | 2       |
|      |                    | TOFEL                        | 2                       | 2       |
| 3    | 2014               | GATE                         | 6                       | -       |
|      |                    | TANCET                       | 6                       | 6       |
|      |                    | IELTS                        | 1                       | 1       |
| 4    | 2015               | IELTS                        | 1                       | 1       |
| 5    | 2016               | GATE                         | 5                       | -       |

**24. Student progression**

| Student Progression           | Percentage against enrolled |      |      |      |
|-------------------------------|-----------------------------|------|------|------|
|                               | 2013                        | 2014 | 2015 | 2016 |
| UG to PG                      | 9.3                         | 4.4  | 3.8  | -    |
| PG to Ph.D.                   | 2.7                         | -    | -    | -    |
| Employed Campus selection     | 50                          | 59.7 | 67.3 | 78.8 |
| Other than campus recruitment | 23.4                        | 14.9 | 13.4 | 1.9  |
| Entrepreneurs                 | 1.5                         | -    | 3.8  | -    |

**25. Diversity of staff**

| UG                                        |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | 70.83   | 72      | 66.67   | 75      | 76.47   |
| from other universities within the State  | 29.17   | 28      | 33.33   | 25      | 23.53   |
| from other universities from other States | -       | -       | -       | -       | -       |
| PG                                        |         |         |         |         |         |
| of the same parent university             | 83.33   | 88      | 88.89   | 93.75   | 94.12   |
| from other universities within the State  | 16.67   | 12      | 11.11   | 6.25    | 5.8     |
| from other universities from other States | -       | -       | -       | -       | -       |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

| S.No | Year of Award | No. of Ph.D. |
|------|---------------|--------------|
| 1    | 2013          | 1            |

## 27. Present details about infrastructural facilities

### a) Library

Total No. of books available in department library is 938. Apart from this, project reports of all the students are maintained for reference purpose.

| S.No | Academic Year | Book Titles (in nos.) | Book Volumes (in nos.) |
|------|---------------|-----------------------|------------------------|
| 1    | 2012 – 13     | 724                   | 733                    |
| 2    | 2013 – 14     | 819                   | 833                    |
| 3    | 2014 – 15     | 852                   | 876                    |
| 4    | 2015 – 16     | 852                   | 876                    |
| 5    | 2016 - 17     | 914                   | 938                    |

### b) Internet facilities for staff and students

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in all labs and faculty rooms. Wi-Fi connectivity is also provided both in the college and hostel.

### c) Total number of class rooms : 6

| S.No | Class Room No. | Description of Room (in sqm) | Shared / Exclusive | Details of Facility Available                                                              |
|------|----------------|------------------------------|--------------------|--------------------------------------------------------------------------------------------|
| UG   |                |                              |                    |                                                                                            |
| 1    | A107*          | 83.6                         | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair, Wooden Cupboard, Notice board |
| 2    | A108           | 83.3                         | Exclusive          | Black board, Tables, Chair, Notice board                                                   |
| 3    | A109           | 83.3                         | Exclusive          | Black board, Tables, Chair, Notice board                                                   |
| 4    | F109           | 84                           | Exclusive          | Black board, Tables, Chair, Notice board                                                   |
| PG   |                |                              |                    |                                                                                            |
| 5    | A213*          | 56.9                         | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair, Wooden Cupboard, Notice board |
| 6    | A214           | 56.9                         | Exclusive          | Black board, Tables, Chair, Wooden Cupboard, Notice board                                  |

\* As these facilities are exclusively available for the use of the department, all classes share the facilities and utilization of resources is monitored by the HoD and senior faculty members



**d) Class rooms with ICT facility: 2\***

| S.No | Class Room No. | Description of Room (in sqm) | Shared / Exclusive | Details of Facility Available                                                              |
|------|----------------|------------------------------|--------------------|--------------------------------------------------------------------------------------------|
| 1    | A107           | 83.7                         | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair, Wooden Cupboard, Notice board |
| 2    | A213           | 57                           | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair, Wooden Cupboard, Notice board |

\* Utilization is regularly monitored by the HoD and Senior faculty members

**e) Students' laboratories :**

| S.No | Lab No. | Area in Sqm | Name of the Lab                     |
|------|---------|-------------|-------------------------------------|
| 1    | A011    | 72          | Web Technology Lab                  |
| 2    | A012    | 72          | Data Base Management Systems Lab    |
| 3    | A313    | 73          | Hardware Lab                        |
| 4    | A314    | 73          | Network Lab                         |
| 5    | C004    | 89          | Programming and Data Structures Lab |
| 6    | C005    | 72          | Cryptography and Cryptanalysis Lab  |
| 7    | AE02    | 96          | PG Research Lab                     |

**f) Research laboratories :**

| S.No | Established Year | Name of the Lab | Name of the Equipment                              | Qty. in Nos. |
|------|------------------|-----------------|----------------------------------------------------|--------------|
| 1    | 2012 – 13        | Research Lab    | High Configuration PC's connected with RACK server | 20           |

**28. Number of students of the department getting financial assistance from College.**

Total Number of Students : **114**

Total Amount : **12,60,225**

| Academic Year | Government        |                                      | Management        |          |
|---------------|-------------------|--------------------------------------|-------------------|----------|
|               | Student benefited | Amount                               | Student benefited | Amount   |
| 2012 - 13     | 18                | 1,35,000                             | -                 | -        |
| 2013 – 14     | 4                 | 1,88,000                             | 5                 | 35,000   |
| 2014 – 15     | 9                 | 61,250                               | 3                 | 40,000   |
| 2015 – 16     | 44                | 5,00,975                             | 4                 | 55,000   |
| 2016 - 17     | 20                | Not Yet Sanctioned by the Government | 7                 | 2,45,000 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes, Need assessment is done before development of any new programme.

- Opinions and suggestions from Employers, Alumni and Industries are obtained regularly
- Programmes offered by other foreign Universities are referred, and interaction with professors of IITs, NITs and Research Centers helps to identify the need.
- All the inputs obtained from stakeholders regarding curriculum and syllabi are placed in the BOS and Academic Council for approval.

**30. Does the department obtain feedback from**

**a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

- Yes, feedback from faculty on curriculum and syllabi are obtained, they are forwarded to Board of Studies Meeting and included in composing the syllabus. The recommendations of the Board of Studies is placed in the Academic Council for approval
- Feedback and Suggestions on teaching methodology and mode of evaluation are obtained in the department meetings. The necessary modifications and changes are incorporated. Faculty members are given orientation regarding the changes and modifications.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

- **Students on Staff:** Regular feedbacks are obtained from the students on faculty. If any defects are indicated, then the concerned faculty is suitably advised by the HOD and properly counselled and mentored by other senior faculty members.
- **Students on Curriculum:** Student members participate in Board of Studies (BoS) Meeting to offer their feedback on curriculum. The BoS forwards this with or without modification to the Academic Council for approval and implementation.
- **Students on Teaching Learning Evaluation:** The college obtains frequent feedback from students on the teaching – learning process and feedback details are discussed in department meetings. Suitable remedial actions are taken if necessary under the supervision of the HoD.

**c. Alumni and employers on the programmes and what is the response of the department to the same?**

- Informal feedback from Alumni is obtained and utilized to improve the content and offer new courses which facilitates placement and opportunities for higher studies of the current students.
- Surveys are collected from Alumni and the employers on the programme (Programme Educational Objectives, POs curriculum, performance of the

students in industry). Necessary changes are made to the curriculum and syllabus which are then sent to the BOS and Academic Council for approval for implementation.

**31. List the distinguished alumni of the department (maximum 10)**

| S.No | Name of the Alumni | Batch   | Current Position         | Company                             |
|------|--------------------|---------|--------------------------|-------------------------------------|
| 1    | L. AswanthPrabhu   | 2002-06 | Team Leader              | CTS, Bangalore                      |
| 2    | A. Rajesh          | 2003-07 | Senior Software Engineer | CTS, Coimbatore                     |
| 3    | T. Saravana Kumar  | 2004-08 | CEO                      | Mystic Studios, Chennai             |
| 4    | K. Anitha          | 2005-09 | Senior Software Engineer | Accenture, Bangalore                |
| 5    | B. Surendren       | 2006-10 | Associate Engineer       | Wipro, Singapore                    |
| 6    | R. Suganya         | 2007-11 | Assistant Manager        | The Royal Bank of Scotland, Chennai |
| 7    | K. Gogul           | 2008-12 | Software Engineer        | IBM, Chennai                        |
| 8    | J. Iyswarya        | 2009-13 | Software Engineer        | Tech Mahindra, Chennai              |
| 9    | M. Nitheesh        | 2010-14 | Software Engineer        | NDOT Technologies, New York         |
| 10   | K. Durga Devi      | 2011-15 | Software Engineer        | HP Technologies, Bangalore          |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| S.No               | Name of Event | Title                                       | Date                       | External Experts                                                                                                                                                                                  | No. of Beneficiary |
|--------------------|---------------|---------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>2012 - 2013</b> |               |                                             |                            |                                                                                                                                                                                                   |                    |
| 1                  | Seminar       | Enterprise Computing with IBM               | 25.09.2012                 | Ms.Priya, B.Sathish<br>IBM Carrier Education Sytems                                                                                                                                               | 111                |
| 2                  | Guest Lecture | Non Linear Data Structure                   | 29.09.2012                 | Mrs.A.Annalakshmi, AP/CSE,<br>KSR College of Engineering                                                                                                                                          | 120                |
| 3                  | Workshop      | 2D and 3D Animation                         | 28.09.2012                 | Mr.R.Vinoth,<br>IMAAC 3D Animation Academy, Coimbatore                                                                                                                                            | 200                |
| 4                  | Seminar       | High Performance Computing & Cyber Security | 22.01.2013<br>& 23.01.2013 | Dr.V.Lashmi Prabha,<br>Principal, GCT, Coimbatore.<br>Dr.T.Purusothaman, Professor,<br>GCT, Coimbatore.<br>Prof.M.Nageshwara Gupta,<br>Prof. and Head, United Institute of Technology, Coimbatore | 300                |

| S.No               | Name of Event | Title                                                                  | Date       | External Experts                                                                                                                                           | No. of Beneficiary |
|--------------------|---------------|------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 5                  | Seminar       | Computer Networks                                                      | 14.02.2013 | Dr.S.Prakash, HOD-IT, Sri Sakthi Institute of Engineering and Technology, Coimbatore                                                                       | 40                 |
| 6                  | Seminar       | Wireless Networking                                                    | 14.02.2013 | Dr.V.Vanitha, Professor, Dept. of CSE, KCT, Coimbatore                                                                                                     | 50                 |
| 7                  | Seminar       | Employability in IT sector                                             | 15.02.2013 | Mr.Thiruvurul Mohanan, Head-Presales [Aero and Defence Division], Mahindra Satyam, Chennai.                                                                | 350                |
| <b>2013 - 2014</b> |               |                                                                        |            |                                                                                                                                                            |                    |
| 8                  | Seminar       | Employability in Defense and DRDO                                      | 24.08.2013 | Lt.Esan.S, Director, Defence Academy Coimbatore (DAC)                                                                                                      | 60                 |
| 9                  | Seminar       | Roles Deliverables in Software Development Phases in Cloud Environment | 06.09.2013 | Mr.ONP.Selvanayagam, Head-Product Development, Payoda Technologies,Coimbatore                                                                              | 50                 |
| 10                 | Seminar       | Green Computing for Sustainability                                     | 24.01.2014 | Mr.Mayank Gupta,Team Member Relations Site Lead,Dell International Services, Coimbatore                                                                    | 200                |
| 11                 | Seminar       | Current IT Industry and Recent Developments                            | 07.02.2014 | Mr.Ram Rajagopalan,Development Manager,IBM India Private Limited,Bangalore<br>Mrs.Chriahanthi Christhudhas Managing Director,Trinity Solutions, Coimbatore | 112                |
| 12                 | Guest Lecture | Cryptography and Network Security                                      | 01.03.2014 | Dr.T.Purusothaman, Associate Professor, Department of CSE, GCT, Coimbatore                                                                                 | 60                 |
| 13                 | Guest Lecture | Data Mining                                                            | 26.03.2014 | Ms.D.Lakshmi, Assistant Professor,Department of CSE, Adithya Institute of technology,n Coimbatore                                                          | 40                 |
| <b>2014 - 2015</b> |               |                                                                        |            |                                                                                                                                                            |                    |
| 14                 | Guest Lecture | Graphics and Multimedia                                                | 10.07.2014 | Mr.Jawahar, Graphics Designer Chennai                                                                                                                      | 60                 |
| 15                 | Seminar       | IT Everywhere                                                          | 16.07.2014 | Mr.M.Manivannan, General Manager, Product Development Engineering, Pricol Limited, Coimbatore                                                              | 220                |
| 16                 | Guest Lecture | Employability in IT sectors                                            | 18.07.2014 | Mr.Suresh Venkatasamy, Managing Director, Vaanam Technologies,                                                                                             | 60                 |

| S.No | Name of Event        | Title                                  | Date                   | External Experts                                                                                                                                                                                                                                                                                                                                            | No. of Beneficiary |
|------|----------------------|----------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|      |                      |                                        |                        | Coimbatore                                                                                                                                                                                                                                                                                                                                                  |                    |
| 17   | Seminar              | Web Designing & PHP                    | 02.08.2014             | Mr.Ramesh,Managing Head,Kalvi Technologies,Coimbatore                                                                                                                                                                                                                                                                                                       | 120                |
| 18   | Seminar              | Virutalization PaaS                    | 05.08.2014             | Mr.G.Ravishankar, SeniorHardware Architect, HCL Infosystems Ltd, Noida                                                                                                                                                                                                                                                                                      | 180                |
| 19   | Seminar cum Training | Cognizant Outreach-Bridge IT           | 06.09.2014             | CTS Employees, Chennai                                                                                                                                                                                                                                                                                                                                      | 105                |
| 20   | Seminar cum events   | Software Freedom Day                   | 19.09.2014             | Mr.Harishankar Rangaraj, Founder & Director Open source Academy India Pvt.Ltd, Coimbatore                                                                                                                                                                                                                                                                   | 27                 |
| 21   | Guest Lecture        | Data Structures and algorithms         | 29.09.2014             | Dr.T.Senthilkumar Associate Professor/CSE, Amrita University, Coimbatore                                                                                                                                                                                                                                                                                    | 48                 |
| 22   | Workshop             | Big Data Analytics and Hadoop          | 29.09.2014& 30.09.2014 | :Mr.Ajay viswanathan, CEO & Founder, Superfect solutions, Coimbatore<br>Session -I :Introduction to Big data and its components,mapreduce- Mr.Murali,Superfect Solutions, Coimbatore<br>Session-II: HDFS & HBASE- Dr.T.Senthilkumar,Associate Professor,Amrita University,Coimbatore<br>Session-III & IV: Hands on training -Datadotz Professionals,chennai | 60                 |
| 23   | Guest Lecture        | Java Programming                       | 1.11.2014              | Mr.Jeyakumar Software Engineer, Robert Bosch, Coimbatore                                                                                                                                                                                                                                                                                                    | 47                 |
| 24   | Seminar              | Importance of Microsoft Certifications | 5.1.2015               | Dr.Vijaya Lakshmi, Head,Vijayalakshmi Hitech Solutions (VHS), Madurai                                                                                                                                                                                                                                                                                       | 240                |
| 25   | Seminar              | Career Guidance to Higher Education    | 6.1.2015               | Mr.Subash Marketing Executive Triumphant Institute of Management Education Private Limited (TIME), Coimbatore                                                                                                                                                                                                                                               | 60                 |
| 26   | Guest Lecture        | Real Time Designing of                 | 24.1.2015              | Mrs.Malliga Senior Embedded System                                                                                                                                                                                                                                                                                                                          | 100                |

| S.No               | Name of Event | Title                                                                                              | Date       | External Experts                                                                                                                                                     | No. of Beneficiary |
|--------------------|---------------|----------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|                    |               | Embedded systems with Microprocessor and Microcontroller                                           |            | Design Engineer , Priosch Infotech, Coimbatore                                                                                                                       |                    |
| 27                 | Guest Lecture | Design and Analysis of Algorithms                                                                  | 07.2.2015  | Dr.K.Kousalya<br>Professor/CSE, Kongu Engineering College, Erode                                                                                                     | 48                 |
| 28                 | Guest Lecture | GRASP-OOAD                                                                                         | 12.02.2015 | Dr.T.Senthil Kumar,<br>Associate Professor,<br>Department of CSE, Amrita University, Coimbatore                                                                      | 52                 |
| 29                 | Workshop      | CISCO Packet Tracer                                                                                | 19.02.2015 | Mr.Srivignesh<br>Senior Trainer,<br>LiveWire Technologies,<br>Coimbatore                                                                                             | 60                 |
| 30                 | Guest Lecture | Network Programming and management                                                                 | 24.02.2015 | Dr.M.Sangeetha,<br>Associate Professor,<br>Department of CSE, CIT, Coimbatore                                                                                        | 52                 |
| 31                 | Seminar       | Andes Embedded Processor:IOT on wearable Technologies& Sharing and Controlling Internet of things” | 26.02.15   | Session-I<br>Dr.Chiang Yung –Chuan<br>Andes Technology Corporation,<br>Taiwan<br>Session-II<br>Dr.T.N.Kasun De Zoysa<br>Professor,<br>University of Colombo,Srilanka | 320                |
| 32                 | Guest Lecture | XML, JSP and Web Services                                                                          | 23.03.2015 | Mr.P.Prakash,<br>Assistant Professor(SG),<br>Amritha University,<br>Coimbatore                                                                                       | 52                 |
| 33                 | Guest Lecture | Opearting Systems                                                                                  | 24.04.2015 | Ms.M.Rajeshwari<br>Assistant Professor /CSE,<br>Angel College of Engineering and Technology, Tirupur                                                                 | 52                 |
| <b>2015 - 2016</b> |               |                                                                                                    |            |                                                                                                                                                                      |                    |
| 34                 | Seminar       | Skill Factors behind Employability                                                                 | 15.7.2015  | Mr.Muthukumar Valavandhan<br>Technical director,<br>Vaanam technologies,<br>Coimbatore                                                                               | 200                |
| 35                 | Seminar       | Enhancement in Research and Scientific Writing                                                     | 17.7.2015  | Dr.Anand Paul,<br>Director,Connected Computing & Multimedia Processing Lab,<br>Professor/CSE,                                                                        | 68                 |

| S.No | Name of Event | Title                                                   | Date              | External Experts                                                                                                                                                                                                                                                                                   | No. of Beneficiary |
|------|---------------|---------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|      |               |                                                         |                   | Kyungpook National university,south Korea                                                                                                                                                                                                                                                          |                    |
| 36   | Seminar       | Enhancing Research Excellence                           | 23.7.2015         | Dr.Seyed Mohamed Buhari,<br>Assistant Professor/IT,<br>King Abdulaziz University(KAU),<br>Jeddah,Saudi Arabia                                                                                                                                                                                      | 68                 |
| 37   | Seminar       | Research Trends and opportunities in Internet of Things | 12.8.2015         | 1.Dr.Madhan Kumar Srinivasan<br>Assistant Director & Principal Consultant,<br>Training & Research Unit,<br>Global Science and Technology Forum,Singapore<br>2.Mrs.Revathy Padmanaban<br>Big Data Automation Consultant,<br>Big Data Analytics Assurance Unit,<br>Tata Consultancy Services,Chennai | 50                 |
| 38   | Seminar       | Skill Factors behind Employability                      | 15.7.2015         | Mr.Muthukumar Valavandhan<br>Technical director, Vaanam technologies, Coimbatore                                                                                                                                                                                                                   | 200                |
| 39   | Guest Lecture | System Software and Compiler Design                     | 21.8.2015         | Mr.K.Venkatesh,<br>Design Engineer,Symantech, Chennai                                                                                                                                                                                                                                              | 48                 |
| 40   | Seminar       | Higher Studies in Foreign Universities                  | 3.9.2015          | Mr.K.Sasidharan Nambiyar<br>Managing Director,<br>IMTP Consultancy Services, Chennai                                                                                                                                                                                                               | 240                |
| 41   | Seminar       | Recent Trends in IT                                     | 15.9.2015         | Mr.S.Manickavasagam,<br>Sr.Engineer-syatem Engineering<br>Research co-ordinator-India,<br>Cameron India Private Ltd                                                                                                                                                                                | 200                |
| 42   | Seminar       | Open source Softwares:Challenges and Issues             | 19.9.2015         | Mr.Vigneshwar Dhinakaran<br>ReMo REP at Mozilla<br>Decision Scientist,<br>Musigma Innovation and Development,<br>Bangalore & Team                                                                                                                                                                  | 250                |
| 43   | Workshop      | Hands on Training on Android                            | 22.9.15 & 23.9.15 | Mr.Ganesh Babu,<br>Director,                                                                                                                                                                                                                                                                       | 48                 |

| S.No | Name of Event  | Title                                                          | Date                  | External Experts                                                                                                                                                                                                                       | No. of Beneficiary |
|------|----------------|----------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|      |                | Development                                                    |                       | Keys Lab Software India Pvt.Ltd<br>Coimbatore                                                                                                                                                                                          |                    |
| 44   | seminar        | IBM Bluemix                                                    | 23.9.15               | 1.R.S.Sachin Kumar,<br>IBM India Private Limited,<br>Bangalore<br>2.Srinath Ranga,<br>Founder & Director<br>Opteamize Cloud Solutions Private Limited, Bangalore                                                                       | 430                |
| 45   | Workshop       | Ethical Hacking                                                | 30.9.15               | Mr.Vignesh<br>CEO<br>Sculpteclat Technologies<br>Coimbatore                                                                                                                                                                            | 89                 |
| 46   | Engineer's Day | Recent Trends in IT                                            | 15.9.2015             | Mr.S.Manickavasagam,<br>Sr.Engineer-syatem<br>Engineering<br>Research co-ordinator-India,<br>Cameron India Private Ltd                                                                                                                 | 200                |
| 47   | Guest Lecture  | Various aspects of Local Computer Networks                     | 5.10.2015             | Mr.P.Praveen<br>Senior Software Developer,<br>UST Global, Cochin                                                                                                                                                                       | 48                 |
| 48   | Guest Lecture  | Software Testing                                               | 8.10.2015             | Mr.Balaji Jaganathan,<br>Associate-Project,Cognizant<br>Technology Solutions,<br>Coimbatore                                                                                                                                            | 52                 |
| 49   | Seminar        | IBM MAINFRAME TECHNOLOGY                                       | 06.01.2016            | Mr.Amarnath ashok,Senior<br>System Engineer,IBM India<br>Private Ltd,Chennai                                                                                                                                                           | 200                |
| 50   | FDP & WORKSHOP | Internet of Things                                             | 04.02.16<br>&05.02.16 | Dr.R.Kanmani,Professor,Sri<br>Krishna College of<br>Technology,Coimbatore.<br>Dr.Latha,Professor,Kumaraguru<br>College of<br>Technology,Coimbatore<br>Mr.P.Ganesh Kumar,Software<br>Architect,Infence Technology<br>Pvt Ltd,Coimbatore | 30                 |
| 51   | Seminar        | Future of Wireless Technology 5G & 6G                          | 08.02.16              | Dr.K.Giridhar,Professor,Department of Electrical Engineering, IIT Madras                                                                                                                                                               | 275                |
| 52   | Seminar        | Recent Development and Emerging Trends in Research Methodology | 07.01.2016            | Dr.Vijayaraghavan<br>Viswanathan,Scientist<br>&Researcher,CERN-<br>ARDENT, Switzerland                                                                                                                                                 | 150                |
| 53   | Seminar        | IoT-Smart City Perspective                                     | 20.01.2016            | Dr.A.Paul,Director,CCMP<br>Lab&Professor,School of<br>CSE,Kyunkpook National<br>University(KNU),Daegu,                                                                                                                                 | 200                |



| S.No               | Name of Event           | Title                                                      | Date       | External Experts                                                                                                      | No. of Beneficiary |
|--------------------|-------------------------|------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------|--------------------|
|                    |                         |                                                            |            | South Korea                                                                                                           |                    |
| 54                 | Guest Lecture           | Challenges in Microprocessors and Embedded Systems         | 17.02.16   | Dr.S.Uma Maheswari, Professor, Department of ECE, CIT, Coimbatore                                                     | 100                |
| 55                 | Guest Lecture           | Real Time Functions of Windows and Linux Operating Systems | 05.03.2016 | Mr.S.Bharathi, Cloud Solution Architect, Amazon Web Services, Bangalore                                               | 50                 |
| 56                 | Guest Lecture           | Embedded Web Technology                                    | 15.03.2016 | VINEETH.R, Associate Software Engineer, Tech Mahindra, Bangalore.                                                     | 48                 |
| 57                 | Workshop                | Cloud Computing                                            | 16.03.2016 | Geetha.C & P.J.Joshua Jabadishon, Software Developers, UNIQ Technologies                                              | 48                 |
| 58                 | Guest Lecture           | XML and Data Mining                                        | 02.04.2016 | K.Jeyakumar, Senior Software Engineer, Robert Bosch Engineering and Business Solution, Coimbatore                     | 50                 |
| 59                 | Seminar                 | Open Source software and challenges                        | 16.04.2016 | Mr.Vigneshwar Dhinakaran ReMo REP at Mozilla Decision Scientist, Musigma Innovation and Development, Bangalore & Team | 150                |
| <b>2016 - 2017</b> |                         |                                                            |            |                                                                                                                       |                    |
| 60                 | Seminar                 | Current Trends in IT and Android Scope                     | 15.07.2016 | Mr.V.Vishal , CEO & Co-Founder, Tech BreakThrough , Coimbatore.                                                       | 160                |
| 61                 | Workshop                | Internet of Things                                         | 16.07.2016 | Er.Vigneswar Dinakaran, Mozilla Representative, Decision Scientist, MuSigma Pvt Ltd, Bangalore                        | 25                 |
| 62                 | Seminar                 | Ennangalum Vannangalum                                     | 28.07.2016 | Er.PaariVallal, General Manager, DMW Machine Works, Perundurai.                                                       | 150                |
| 63                 | ISTE Sponsored Workshop | ARDUINO PROGRAMMING                                        | 30.07.2016 | Dr.V.Vanitha , Professor , Ms.V.P.Sumathi , AP, Ms.D.Ashwini , AP, Department of CSE, KCT                             | 35                 |
| 64                 | Seminar                 | GATE Awareness Program                                     | 17.08.2016 | Mr.Ganesh , Branch Manager, TIME Institution, Coimbatore                                                              | 50                 |
| 65                 | Workshop                | Hands on Training in Photoshop and corel draw              | 03.09.2016 | Mr. S.Mohamed Raffi Creative Director, vitamin7designs, Coimbatore                                                    | 37                 |
| 66                 | Technical               | Engineers Day                                              | 15.09.2016 | Ms.Amirtha Kailesh, Co-Founder, The                                                                                   | 134                |

| S.No | Name of Event                 | Title                             | Date       | External Experts                                                                                      | No. of Beneficiary |
|------|-------------------------------|-----------------------------------|------------|-------------------------------------------------------------------------------------------------------|--------------------|
|      | Events                        | Celebration                       |            | LEAD (Social Organisation), Coimbatore                                                                |                    |
| 67   | Software Freedom Day Workshop | Hands on Training in FOSS         | 17.09.2016 | Mr. Syedkhaleel Jageer & Mr. Gautam Raj Mozilla Representatives, Mozilla Foundation                   | 175                |
| 68   | Guest Lecture                 | Web Services, XML & ADO.Net       | 30.09.2016 | Mr.K.Jeyakumar, Senior Software Engineer, Robert Bosch Engineering and Business Solutions, Coimbatore | 49                 |
| 69   | Workshop                      | Hands on Training Cloud Computing | 01.10.2016 | Mr.P.Magesh kumar, Cloud Architect, HP Solutions, Chennai.                                            | 55                 |
| 70   | Workshop                      | Android App Development           | 06.10.2016 | Mr.G.Jaganathan, Android Engineer, Tech BreakThrough, Coimbatore                                      | 48                 |
| 71   | Guest Lecture                 | Code Optimization and Debugging   | 15.10.2016 | Mr.K.Venkatesh, QA Engineer, ADS Solutions, Chennai                                                   | 49                 |
| 72   | Seminar                       | Interview Ethics                  | 15.10.2016 | Mr.Santhosh Avvanavar, Counsellor and Trainer, SNS College of Engineering, Coimbatore                 | 48                 |
| 73   | Seminar                       | Studies in Abroad                 | 24.10.2016 | Milton D.Rajashekar, Manager, Career Zone, Coimbatore                                                 | 48                 |

### 33. List the teaching methods adopted by the faculty for different programmes.

The teaching methods adopted by both the UG/PG faculty for different programmes are described below:

- **Smart Class Lectures:** Visually attractive methods of teaching to students are conducted through smart class lectures.
- **Tutorials:** Faculty members encourage students to solve problems or develop programs during the tutorial sessions.
- **Black Board activity:** It is a conventional course delivery method to convey knowledge in the learning process.
- **Guest Lectures:** Lectures by renowned academicians, IT professionals and alumni are organized through Association activity for students in upcoming technologies. The students actively organize and participate in various professional societies and club activities to update their knowledge.
- **Group Assignment:** The students form groups to identify, describe and present technical presentation on assignment topics.

- **Mini Project and Project:** The students form groups to develop mini projects I laboratory classes. Mini Project demonstration and oral examination are also conducted as a part of the end semester evaluation. During the final year, the students identify, analyze, design and develop projects in the areas of emerging trends.
- **E-Journals:** Notable E-Journals like IEEE, Elsevier, Springer, J-gate and EBSCO are available in the Library for the benefit of students and faculty to enhance their knowledge.
- **Problem Based Learning:** Engaging & motivating students with the process of problem learning, any faculty can create an existing, active classroom where students themselves eagerly build problem-solving skills while learning the content necessary to apply them. This motivational feature is vital as students define the what, where and how to resolve the problem situation.
- **Project Based Learning:** Students were motivated to do a professional quality projects. Each student use a wide variety of media to report his or her findings, including writing, shooting videos and working on websites.
- **Activity Based Learning:** Learning by doing is the main focus of this method. Organizing activities on curricular, aims to bring the needs, ideas, skill and interests of students within in the environment.

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

- Class committees consist of students and faculty members teaching the courses. Three meetings are conducted per semester to ensure the programme objectives are met
- Feedbacks from the students are obtained on regular intervals. The student's performances in the tests as well as staff performance are analyzed. Remedial actions are promptly taken if any deficiency is observed. The performance indicators of the staff are updated accordingly.
- Project review committee constituted to review project progress.
- Special classes are conducted for the slow learners to ensure their academic performance.
- The learning outcomes are evaluated through Course end survey and Program Outcomes are measured through Exit Survey
- Assessment of the learning outcomes is done by direct and indirect assessment methods using the Rubrics.
  - Direct Assessment method includes
    - Internal assessments – thrice in a semester
    - Tutorials – once in a week
    - Assignments – once in a semester
    - Projects – last semester of the programme
    - University examinations – once in a semester
    - Lab viva voce- in each lab class

- Programme Outcome Achievement Test- end of the programme
- Indirect Assessment method includes
  - Exit Survey – once in a year
  - Alumni Survey – once in a year
  - Employer Survey– once in a year
  - Academic Peer Survey– once in a year
  - Faculty Survey– once in a year

**35. Highlight the participation of students and faculty in extension activities.**

Students participated in activities such as Swacch Bharath, Blood Donation, Interacting with Orphans, Tree Plantation and organizing Medical Camps under NSS and NCC schemes.

**Students:**

- Participation in inter and intra-college symposiums – programming contest, paper presentations, project presentations and technical events etc.
- Participation in cultural events and competitions.
- Active participation in department level and University level Students associations.
- Organization of national level symposium as part of students’ association activities.

**Faculty:**

- Participation in administrative activities
- Participation in student welfare activities
- Helping students in association and club activities
- Participation in Social welfare activities to create awareness of
  - H1N1-Influenza
  - Safety usage of electronic Equipments
  - 100% Vote etc.

**36. Give details of “beyond syllabus scholarly activities” of the department.**

Scholarly activities are undertaken, beyond the syllabi, to inculcate research and industry orientation by the students with the help of faculty members. Some of the initiatives are

- Soft skill training
- Depute students to various programmes that are held within the state
- Industrial visit for students
- In-plant training/internships for students
- Conducting technical and project design contest
- Guest lectures
- One Credit Courses
- Self-study Electives
- Value Added Courses
- Special Courses
- Open Electives

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

The programme has been accredited by NBA for 2 Years with effect from 01.07.2014 to 30.06.2016 and the same has been extended for one more year up to 30.06.2017

Ref: File No. 33-211/2010/NBA dated 08.07.2016.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

|                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;"><b>STRENGTH</b></p> <ul style="list-style-type: none"><li>• Qualified, dedicated and competent Faculty</li><li>• Very Good academic result and placement</li><li>• Accredited by NBA under Washington accord</li><li>• State of the art laboratory Facilities</li><li>• Adequate motivation to involve in research activities</li></ul> | <p style="text-align: center;"><b>WEAKNESS</b></p> <ul style="list-style-type: none"><li>• Lack of funded research projects</li><li>• Competitive exams and Higher Studies</li><li>• In adequate culture of publishing the research outcomes</li><li>• Patents</li><li>• Lack of diversity</li></ul>                                  |
| <p style="text-align: center;"><b>OPPORTUNITIES</b></p> <ul style="list-style-type: none"><li>• Quality Publications</li><li>• Revision of Curriculum as per industry need</li><li>• Student participation in club activities, inter college competitions, etc.,</li><li>• To get external funding from agencies</li><li>• To set up specialized labs</li></ul>        | <p style="text-align: center;"><b>CHALLENGES</b></p> <ul style="list-style-type: none"><li>• Students with diverse background</li><li>• Constant changes in technology</li><li>• Adapting to changing student expectations</li><li>• Getting Industry defined problems</li><li>• Saturation of engineering education market</li></ul> |

**39. Future plans of the department.**

SWOC analyses for the following future plans

- To setup Cloud Computing and Big Data Analytics Lab
- To offer consultancy services
- To improve placement
- To collaborate with software companies for student internship and projects

## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

Name of the Department : **Mechanical Engineering**

Year of Establishment : **2005**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| Programme level | Programmes offered         | Year of Establishment | Initial Intake | Year of Increase in Intake/Strength                                  | NBA Accredited / Others                             |
|-----------------|----------------------------|-----------------------|----------------|----------------------------------------------------------------------|-----------------------------------------------------|
| UG              | B.E.Mechanical Engineering | 2005                  | 60             | Increased intake 120 in 2012-2013<br>Increased intake 180 in 2013-14 | NBA Accredited<br>Period of accreditation 2014-2017 |
| PG              | M.E.Thermal Engineering    | 2013                  | 18             | -                                                                    | -                                                   |
| Ph.D.           | Mechanical Engineering     | -                     | -              | Recognized Research Centre by Anna University, Chennai. Since 2008   |                                                     |

### 3. Interdisciplinary courses and departments involved

| S.No | Interdisciplinary Courses                    | Semester | Department                             |
|------|----------------------------------------------|----------|----------------------------------------|
| 1    | Technical English – I                        | I        | Science and Humanities                 |
| 2    | Engineering Mathematics – I                  |          | Science and Humanities                 |
| 3    | Engineering Physics                          |          | Science and Humanities                 |
| 4    | Engineering Chemistry                        |          | Science and Humanities                 |
| 5    | Fundamentals of Computer Programming         |          | Computer Science Engineering           |
| 6    | Fundamentals of Computer Programming Lab     |          | Computer Science Engineering           |
| 7    | Chemistry Laboratory                         |          | Science and Humanities                 |
| 8    | Communication Skills Lab                     |          | Science and Humanities                 |
| 9    | Technical English – II                       | II       | Science and Humanities                 |
| 10   | Engineering Mathematics-II                   |          | Science and Humanities                 |
| 11   | Physics of Materials                         |          | Science and Humanities                 |
| 12   | Environmental Science and Engineering        |          | Science and Humanities                 |
| 13   | Basic Electrical and Electronics Engineering |          | Electrical and Electronics Engineering |
| 14   | Physics Laboratory                           |          | Science and Humanities                 |

|    |                                               |     |                                           |
|----|-----------------------------------------------|-----|-------------------------------------------|
| 15 | Transforms and Partial Differential Equations | III | Science and Humanities                    |
| 16 | Statistics and Numerical Methods              | IV  | Science and Humanities                    |
| 17 | Electrical Machines and Drives                |     | Electrical and Electronics Engineering    |
| 18 | Electrical Machines and Drives Laboratory     |     | Electrical and Electronics Engineering    |
| 19 | Electronics and Microprocessor                | V   | Electronics and Communication Engineering |
| 20 | Electronics and Microprocessor Laboratory     |     | Electronics and Communication Engineering |

#### 4. Annual/ Semester/Choice based credit system

| S.No | Academic Year | Years / Semester      | System followed                  |
|------|---------------|-----------------------|----------------------------------|
| 1    | 2013 – 14     | All years & Semesters | Semester System R2013            |
| 2    | 2014 – 15     | All years & Semesters | Semester System R2013            |
| 3    | 2015 – 16     | II, III, & IV years   | Semester System R2013            |
|      |               | First year            | Choice Based Credit System R2015 |
| 4    | 2016 - 17     | III & IV years        | Semester System R2013            |
|      |               | II years              | Choice Based Credit System R2015 |
|      |               | I years               | Choice Based Credit System R2016 |

#### 5. Participation of the department in the courses offered by other departments

| S.No | Courses offered                        | DepartmentsInvolved                                                                                    |
|------|----------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1    | Engineering Drawing                    | B.E (AERO, CIVIL, MCT, MECH, AGRI, CIVIL & PLANNING, MECHANICAL & AUTOMATION)                          |
| 2    | Engineering Practice Laboratory        | B.E (AERO, CIVIL, MCT, MECH, AGRI, CIVIL & PLANNING, MECHANICAL & AUTOMATION, CSE, EEE, ECE, IT, E&I ) |
| 3    | Engineering Graphics                   | B.E (CSE, EEE, ECE, IT, E&I)                                                                           |
| 4    | Basic Civil and Mechanical Engineering | B.E (CSE, EEE, ECE, IT, E&I)                                                                           |
| 5    | Computer Aided Drafting laboratory     | B.E (AERO, CIVIL, MCT, MECH, AGRI, CIVIL & PLANNING, MECHANICAL & AUTOMATION)                          |

|   |                        |                 |
|---|------------------------|-----------------|
| 6 | Applied Thermodynamics | B.E (EEE, AUTO) |
| 7 | Mechanics of Machines  | B.E MCT         |

**6. Number of teaching posts sanctioned (S) and filled (F) (Professors/Associate Professors/ Asst. Professors)**

|                             | 2012 – 13 |    |    |   | 2013 – 14 |    |    |   | 2014 – 15 |    |    |   | 2015 – 16 |    |    |   | 2016 - 17 |    |    |   |
|-----------------------------|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|
|                             | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   |
|                             | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F |
| <b>Professors</b>           | 2         | 2  | -  | - | 3         | 3  | 1  | 1 | 2         | 2  | 1  | 1 | 3         | 3  | 1  | 1 | 3         | 3  | 1  | 1 |
| <b>Associate Professors</b> | 3         | 3  | -  | - | 2         | 2  | -  | - | 2         | 2  | -  | - | 2         | 2  | -  | - | 5         | 5  | -  | - |
| <b>Assistant Professors</b> | 13        | 13 | -  | - | 16        | 16 | 2  | 2 | 24        | 24 | 2  | 2 | 32        | 32 | 2  | 2 | 28        | 28 | 2  | 2 |

**7. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

| Name                         | Qualification   | Designation         | Specialization            | No. of Years of Experience | No. of Ph.D./M.Phil students guided for the last 4 years |
|------------------------------|-----------------|---------------------|---------------------------|----------------------------|----------------------------------------------------------|
| Dr.P.Tamilselvam             | Ph.D.           | Professor & Head    | Engineering Design        | 20                         | Ongoing-7                                                |
| Dr.J.Kannappan               | Ph.D.           | Professor           | Textile Technology        | 35.5                       | NA                                                       |
| Dr.M.Subramanian             | Ph.D.           | Professor           | Manufacturing Engineering | 20.5                       | Ongoing -5                                               |
| Dr.L.Savadamuthu             | Ph.D.           | Associate Professor | Manufacturing Technology  | 20                         | Ongoing -3                                               |
| Dr.T.Prakash                 | Ph.D.           | Associate Professor | Engineering Design        | 13                         | NA                                                       |
| Mr.T.Venkatajalapathi        | M.E. (Ph.D.)    | Associate Professor | Thermal Engineering       | 13                         | NA                                                       |
| Mr.C.Senthil Kumar           | M.E. (Ph.D)     | Associate Professor | Thermal Engineering       | 15                         | NA                                                       |
| Mr.J. Selvakumar             | M.Tech. (Ph.D.) | Associate Professor | Manufacturing Technology  | 21                         | NA                                                       |
| Mr.A. Natarajan (15.05.1957) | M.E             | Associate Professor | Machine Tool Engineering  | 36                         | NA                                                       |
| Mr.R.Dharmalingam            | M.E. (Ph.D.)    | Asst. Professor     | Engineering Design        | 17                         | NA                                                       |
| Mr.G.Tharanitharan           | M.E. ( Ph.D)    | Asst. Professor     | CAD/CAM                   | 5                          | NA                                                       |
| Mr.M.Suresh Kumar            | M.E. ( Ph.D.)   | Asst. Professor     | Engineering Design        | 5                          | NA                                                       |



| Name                    | Qualification    | Designation     | Specialization              | No. of Years of Experience | No. of Ph.D./M.Phil students guided for the last 4 years |
|-------------------------|------------------|-----------------|-----------------------------|----------------------------|----------------------------------------------------------|
| Mr.A.Chelliah           | M.E              | Asst. Professor | Thermal Engineering         | 7                          | NA                                                       |
| Mr.C.Chinnasamy         | M.E. ( Ph.D.)    | Asst. Professor | Thermal Engineering         | 5                          | NA                                                       |
| Mr.V.R.Hariram          | M.S. ( Ph.D.)    | Asst. Professor | Production and Logistics    | 5                          | NA                                                       |
| Mr.A.Vimalkoodeeswaran  | M.E              | Asst. Professor | Thermal Engineering         | 6                          | NA                                                       |
| Mr.M.MohamedAriffuddeen | M.E              | Asst. Professor | Engineering Design          | 22                         | NA                                                       |
| Mr.M.Saravana Kumar     | M.E. ( Ph.D.)    | Asst. Professor | CAD/CAM                     | 4                          | NA                                                       |
| Ms.M.SindhuKavi         | M.E              | Asst. Professor | Industrial Engineering      | 2                          | NA                                                       |
| Mr.V.Karthik            | M.E. ( Ph.D.)    | Asst. Professor | CAD/CAM                     | 2                          | NA                                                       |
| Mr.R. Karthikeyan       | M.E              | Asst. Professor | Production Engineering      | 2                          | NA                                                       |
| Mr.B.Karthick           | M.E              | Asst. Professor | Industrial metallurgy       | 2                          | NA                                                       |
| Dr.P.Velmurugan         | Ph.D.            | Asst. Professor | Thermal Engineering         | 13                         | NA                                                       |
| Mr.K.Prakash            | M.E              | Asst. Professor | Thermal Engineering         | 13                         | NA                                                       |
| Mr.R.Ganesh Kumar       | M.E              | Asst. Professor | Heat power Engineering      | 1                          | NA                                                       |
| Mr.P.Janagarathinam     | M.E              | Asst. Professor | Engineering Design          | 1                          | NA                                                       |
| Mr. A. JeevaRathinam    | M.E. ( Ph.D.)    | Asst. Professor | CAD/CAM                     | 2                          | NA                                                       |
| Mr.T. Pravin            | M.Tech. ( Ph.D.) | Asst. Professor | Advanced Manufacturing      | 1                          | NA                                                       |
| Mr.M.Mohamed Ibrahim    | M.E              | Asst. Professor | Aeronautical Engineering    | 1                          | NA                                                       |
| Mr.A.Karhi              | M.E              | Asst. Professor | Automotive Engineering      | 1                          | NA                                                       |
| Mr.A. Natarajan         | M.E              | Asst. Professor | Manufacturing Engineering   | 1                          | NA                                                       |
| Mr.S.Hemnath            | M.E              | Asst. Professor | Product design and commerce | 1                          | NA                                                       |
| Mr.JithinVelayutham     | M.E              | Asst. Professor | Engineering Design          | 0.4                        | NA                                                       |
| Mr. Arumukam            | M.E              | Asst. Professor | Thermal Engineering         | 0.4                        | NA                                                       |
| Mr. V.S.Kaushik         | M.E. ( Ph.D.)    | Asst. Professor | Engineering Design          | 6                          | NA                                                       |
| Mr. S.Rajasekar         | M.E              | Asst. Professor | Manufacturing Engineering   | 0.4                        | NA                                                       |
| Mr. K.Prakash           | M.E              | Asst. Professor | Engineering Design          | 0.4                        | NA                                                       |

| Name             | Qualification | Designation     | Specialization                    | No. of Years of Experience | No. of Ph.D./M.Phil students guided for the last 4 years |
|------------------|---------------|-----------------|-----------------------------------|----------------------------|----------------------------------------------------------|
| Mr. C. Somu      | M.E           | Asst. Professor | Computer Integrated Manufacturing | 2                          | NA                                                       |
| Mr.T.K.Sakthivel | M.E           | Asst. Professor | Automobile Engineering            | 0.4                        | NA                                                       |

#### 8. Percentage of classes taken by temporary faculty – programme-wise information

NIL – The department has always been adequately staffed and therefore there is no need for temporary faculty.

#### 9. Programme-wise Student Teacher Ratio

| Year      | Programme | Total StudentsStrength | Faculty | Ratio S/T |
|-----------|-----------|------------------------|---------|-----------|
| 2012 – 13 | UG        | 207                    | 18      | 11 : 1    |
|           | PG        | -                      | -       | -         |
| 2013 – 14 | UG        | 281                    | 21      | 13 : 1    |
|           | PG        | 17                     | 3       | 6 : 1     |
| 2014 – 15 | UG        | 412                    | 28      | 15 : 1    |
|           | PG        | 34                     | 3       | 10 : 1    |
| 2015 – 16 | UG        | 597                    | 37      | 16 : 1    |
|           | PG        | 25                     | 3       | 8 : 1     |
| 2016 – 17 | UG        | 628                    | 40      | 16 : 1    |
|           | PG        | 11                     | 3       | 4 : 1     |

#### 10. Number of academic support staff (technical) and administrative staff: sanctioned (S) and filled (F)

| Support Staff (technical) and administrative staff | 2012 – 13 |   | 2013 – 14 |   | 2014 – 15 |   | 2015 – 16 |   | 2016 – 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 8         | 8 | 8         | 8 | 8         | 8 | 8         | 8 | 8         | 8 |

#### 11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

NIL

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

| S.NO | Period    | Title of the proposal / Scheme                                                                             | Agency Name / authority            | Amount applied | Received      |
|------|-----------|------------------------------------------------------------------------------------------------------------|------------------------------------|----------------|---------------|
| 1    | 2011-2012 | Seminar(SG)-Gas turbine application in Air breathing engine                                                | AICTE                              | Rs.95,000/-    | Rs.95,000/-   |
| 2    |           | EDC-Establishment of entrepreneurship Development Cell                                                     | AICTE                              | Rs.5,27,000/-  | Rs.5,25,000/- |
| 3    | 2012-2013 | Scheme Seminar (SG) /Workshop<br>Divergence of modern Heat exchanger application in Science and Technology | AICTE                              | Rs.2,40,000/-  | Rs.2,00,000/- |
| 4    | 2013-2014 | Railway Enhancement Program                                                                                | TNSCST                             | Rs.9,950/-     | Rs.7500/-     |
| 5    |           | IEI Grant for R&D project<br>Autonomous robotic boat for marine water sampling                             | The Institute of Engineers (India) | Rs.50,000/-    | Rs.50,000/-   |
| 6    | 2015-2016 | The Institute of Engineers(India)<br>R&D Grant-in-aid scheme: Air Cooling System in Car using Solar Energy | The Institute of Engineers(India)  | Rs.50,000/-    | Rs.25,000/-   |
| 7    | 2016-2017 | Processing and Mechanical behavior of Nano composite materials for aerospace structures                    | SERB                               | Rs.50,000/-    | Rs.50,000/-   |

**13. Research facility / centre with**

**State Recognition**

Department is recognized by Anna University, Chennai for offering Ph.D.

| S.No. | Description                                       | Sanctioned Year | Recognized University       | File No & Date                                        |
|-------|---------------------------------------------------|-----------------|-----------------------------|-------------------------------------------------------|
| 1     | Mechanical Engineering department Research Centre | 2007-2008       | Anna University, Coimbatore | Lr.No:001/ AU-CBE-R/Research/2007-08 dated 22.04.2008 |

**National Recognition**

- NBA accredited – Under Tier II During June 2014- June 2017

**International Recognition- NIL**

## 14. Publications

|                                                                                                                                                                                         | 2012 - 13 | 2013 - 14 | 2014 - 15 | 2015 – 16 | 2016 - 17 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Number of papers published in peer reviewed journals (national / international)                                                                                                         | 9         | 5         | 19        | 16        | 13        |
| Monographs                                                                                                                                                                              | -         | -         | -         | -         | -         |
| Chapter(s) in Books                                                                                                                                                                     | -         | -         | -         | -         | -         |
| Editing Books                                                                                                                                                                           | -         | -         | -         | -         | -         |
| Books with ISBN numbers with details of publishers                                                                                                                                      | -         | -         | -         | -         | -         |
| Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) | -         | -         | -         | -         | -         |
|                                                                                                                                                                                         | 2012 - 13 | 2013 - 14 | 2014 - 15 | 2015 – 16 | 2016 - 17 |
| Citation Index [ Range]                                                                                                                                                                 | 4-48      |           |           |           |           |
| SNIP                                                                                                                                                                                    | -         | -         | -         | -         | -         |
| SIR                                                                                                                                                                                     | -         | -         | -         | -         | -         |
| Impact Factor [ Range]                                                                                                                                                                  | 0.43-1.73 |           |           |           |           |
| h – index [ Range]                                                                                                                                                                      | 1-4       |           |           |           |           |

## 15. Details of patents and income generated

A patent is filed during the year 2016-2017. The details of the patent are given below.

| Title of theInvention                        | Date of filing&Application No | Field of Invention      | Name of theFaculty                 | Status    |
|----------------------------------------------|-------------------------------|-------------------------|------------------------------------|-----------|
| Semi automatic Braking system for automobile | 21.06.2016<br>(201641021088)  | Mechanical / Electrical | Dr.P.Tamilselvam<br>Mr.V.R.Hariram | Published |

## 16. Areas of consultancy and income generated

| S.No                    | Year      | Name of the faculty                   | Area of Consultancy                                                     | Organization                                                    | Income                      |
|-------------------------|-----------|---------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------|
| 1                       | 2015-2016 | T. Venkatachalapathy/<br>A. Natarajan | Improving the Performance of 1/2 HP Centrifugal Pump Using CFD Analysis | Swagath Industries, Nallampalayam, Coimbatore.                  | Completed based on Goodwill |
| 2                       |           | C.Chinnasamy                          | Transesterification Process in PG Thermal Lab at SNSCT                  | Coimbatore Institute of Engineering and Technology, Coimbatore. | Rs.1,000/-                  |
| 3                       | 2015-2016 | B.Karthick / V.Karthik                | Formulation of Steel Composition for Spur Gear to be used in Oh –Crane  | D.M. Engineering Works, Coimbatore.                             | Rs.5,000/-                  |
| 4                       |           | A. Natarajan, T.Pravin.               | Improving Production and Quality in Foundry and Machineshop             | Santhi Castings, Narashimanaickenpalayam Coimbatore.            | Rs.25,000/-                 |
| 5                       | 2016-2017 | A. Natarajan                          | Production planning and cycle time reduction in CNC                     | Robin industries, Malumichampatti, Coimbatore.                  | Rs.25,000/-                 |
| 6                       |           | A. Natarajan, R.Dharmalingam.         | Defect Control in casting                                               | Robin industries, Malumichampatti, Coimbatore.                  | On Going                    |
| Total Income Generated: |           |                                       |                                                                         |                                                                 | Rs.56,000/-                 |

## 17. Faculty recharging strategies

- Our college motivates all the faculty members to update their technical skills in their fields of interest.
- As a part of the quality policy of our college, all faculty members are motivated to attend/participate in FDP programs, workshops and conferences organised by leading institutions like IISC, IIT, NIT, etc.,
- Our college is providing partial financial support for the faculty members to participate in the programmes.
- Appreciation and incentives are given to our faculty members for publishing papers in national/international journals.
- Incentives are given to faculty members for taking consultancy project works.
- Faculty members are motivated to actively participate in the games and sports activities.

| S.No | Events                                                                                                                      | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|------|-----------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1    | Workshops/ Seminars<br>/Conference /Industry<br>Orientation Programs<br>/Industrial Visits /Faculty<br>Development Programs | 15      | 49      | 121     | 121     | 70      |

### 18. Student projects

Percentage of students who have done in-house projects including inter-departmental collaboration with industries / institutes

| Year      | Total No of projects |    | Percentage of Students Project           |       |                               |       |
|-----------|----------------------|----|------------------------------------------|-------|-------------------------------|-------|
|           |                      |    | In-house projects and inter-departmental |       | Collaboration with industries |       |
|           | UG                   | PG | UG                                       | PG    | UG                            | PG    |
| 2012 - 13 | 17                   | -  | 100                                      | -     | -                             | -     |
| 2013 - 14 | 19                   | -  | 94.73                                    | -     | 5.27                          | -     |
| 2014 - 15 | 18                   | 16 | 33.33                                    | 68.75 | 66.67                         | 31.25 |
| 2015 - 16 | 36                   | 17 | 58.33                                    | 76.47 | 41.67                         | 23.53 |
| 2016 - 17 | 54                   | 10 | 68.52                                    | 70.00 | 31.48                         | 30.00 |

### 19. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post-doctoral fellows
- Students

| Description | Awards/Recognition Received in | 2012-2013 |   | 2013-2014 |   | 2014-2015 |   | 2015-2016 |   | 2016-2017 |   |
|-------------|--------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|             |                                | A         | R | A         | R | A         | R | A         | R | A         | R |
| Faculty     | Curricular                     | 10        | - | 09        | - | 22        | - | 24        | - | -         | - |
| Students    | Co-curricular                  | 14        | - | 19        | - | 29        | - | 33        | - | 39        | - |
|             | Extra-curricular               | 03        | - | 07        | - | 14        | - | 03        | - | -         | - |

A-Awards, R- Recognition

| S. No | Academic Year | Name of the Recognition /Award constituted by the College (Journal Publication, Book Publication, Research Project, etc) |
|-------|---------------|--------------------------------------------------------------------------------------------------------------------------|
| 1     | 2012-2013     | Anna University Referred Annexure-I Journal publication<br>Rs 1500/ each for 5 faculties awarded                         |

|   |           |                                                                                                                                               |
|---|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | 2013-2014 | Anna University Annexure-I Journal publication Rs 1500/ for 2 faculties and Annexure-II Journal publication Rs 1000/ for 2 faculties awarded  |
| 3 | 2014-2015 | Anna University Annexure-I Journal publication Rs 1500/ for one faculty and Annexure-II Journal publication Rs 1000/ for 10 faculties awarded |
| 4 | 2015-2016 | Anna University Referred Annexure-II Journal publication Rs 1000/ each for 12 faculties awarded                                               |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.**

| S.No               | Event(Seminars/ Conferences/Workshops) | Title                                                              | Duration | Sources of funds | Participants |
|--------------------|----------------------------------------|--------------------------------------------------------------------|----------|------------------|--------------|
| <b>2012 – 2013</b> |                                        |                                                                    |          |                  |              |
| 1                  | Workshop                               | Workshop on “Effective Experimentation In Mechatronics Laboratory” | 1 day    | SNSCT            | 60           |
| 2                  | Seminar                                | Seminar on “Advances In Manufacturing Sciences” Aims 2012          | 1 day    | SNSCT            | 17           |
| 3                  | Workshop                               | Workshop on “Industrial Safety and First Aid Program”              | 1 day    | SNSCT            | 200          |
| 4                  | AICTE Sponsored Seminar                | Seminar on “Gas Turbine Application In Air Breathing Engine”       | 2 days   | AICTE            | 50           |
| 5                  | Technical Symposium                    | Mexelerate’13                                                      | 1 day    | SNSCT            | 299          |
| 6                  | National Conference                    | NCETME’13                                                          | 1 day    | SNSCT            | 200          |
| <b>2013-2014</b>   |                                        |                                                                    |          |                  |              |
| 7                  | Workshop                               | Workshop on Effective Teaching and Mentoring                       | 1 day    | SNSCT            | 17           |
| 8                  | Workshop                               | AICTE Sponsored Workshop on Friction stir welding                  | 1 day    | AICTE            | 50           |
| 9                  | Technical Symposium                    | Mexelerate’13                                                      | 1 day    | SNSCT            | 299          |
| 10                 | National Conference                    | NCETME’14                                                          | 1 day    | SNSCT            | 200          |
| 11                 | Workshop                               | Design of Experiments using Minitab15                              | 1 day    | SNSCT            | 50           |
| <b>2014 – 2015</b> |                                        |                                                                    |          |                  |              |
| 12                 | Symposium                              | “SNSCT Texperia’15”                                                | 2 days   | SNSCT            | 70           |
| 13                 | Workshop                               | Geometric Dimensioning & Tolerancing                               | 1 day    | SNSCT            | 230          |
| 14                 | Workshop                               | Sheet Metal 3D Modelling and Training                              | 2 days   | SNSCT            | 90           |
| 15                 | Workshop                               | Design of Experiments                                              | 2 days   | SNSCT            | 350          |
| 16                 | Workshop                               | Higher Education and Job Opportunities Abroad                      | 1 day    | SNSCT            | 380          |

|                    |                          |                                                                                                 |        |          |     |
|--------------------|--------------------------|-------------------------------------------------------------------------------------------------|--------|----------|-----|
| 17                 | National Conference      | NCETME'13                                                                                       | 1 day  | SNSCT    | 200 |
| 18                 | Project Exhibition       | Project Exhibition                                                                              | 1 day  | SNSCT    | 60  |
| 19                 | Workshop                 | Robovision                                                                                      | 2 days | SNSCT    | 230 |
| <b>2015 – 2016</b> |                          |                                                                                                 |        |          |     |
| 20                 | Workshop                 | Advanced Technology in CNC& its Programming                                                     | 1 day  | SNSCT    | 90  |
| 21                 | Seminar                  | System Application Product                                                                      | 1 day  | SNSCT    | 230 |
| 22                 | International Conference | Mechanical and Building Sciences – ICMBS 2016                                                   | 2 days | SNSCT    | 150 |
| 23                 | Workshop                 | Lean Manufacturing and Six Sigma                                                                | 1 day  | SNSCT    | 280 |
| 24                 | Project Contest          | Project Contest and Talent Show-2k16                                                            | 1 day  | SNSCT    | 230 |
| 25                 | Technical Symposium      | Texperia 15-16                                                                                  | 2 days | SNSCT    | 350 |
| 26                 | Workshop                 | Patenting Your Technology                                                                       | 1 day  | SNSCT    | 90  |
| 27                 | Seminar                  | Pursuing Effective Research and Paper Writing                                                   | 1 day  | SNSCT    | 70  |
| 28                 | Workshop                 | NX Cam                                                                                          | 1 day  | SNSCT    | 120 |
| 29                 | Workshop                 | Aerodynamic Design & Collision Testing of Vehicle / Aircraft using ANSYS Explicit Dynamics &CFD | 2 days | SNSCT    | 40  |
| <b>2016 – 2017</b> |                          |                                                                                                 |        |          |     |
| 30                 | Seminar                  | Processing and mechanical behavior of nano composite materials for aerospace structures         | 2 days | DST-SERB | 80  |

## 21. Student profile course-wise:

| Year      | Name of the Course | Application Received | Selected |        | Pass percentage |        |
|-----------|--------------------|----------------------|----------|--------|-----------------|--------|
|           |                    |                      | Male     | Female | Male            | Female |
| UG        |                    |                      |          |        |                 |        |
| 2009-2013 | B.E MECH           | NA                   | 62       | -      | 80.6            | -      |
| 2010-2014 | B.E MECH           |                      | 72       | -      | 76.4            | -      |
| 2011-2015 | B.E MECH           |                      | 68       | -      | 79.4            | -      |
| 2012-2016 | B.E MECH           |                      | 132      | 1      | 74.2            | 100    |
| PG        |                    |                      |          |        |                 |        |
| 2013-2015 | M.E Thermal        |                      | 16       | -      | 100             | -      |
| 2014-2016 | M.E Thermal        |                      | 16       | 1      | 100             | 100    |

## 22. Diversity of Students



| Name of the Course | Batch   | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| <b>B.E MECH</b>    | 2012-16 | -                              | 100                          | -                               | -                                  |
|                    | 2013-17 | -                              | 96.14                        | 3.86                            | -                                  |
|                    | 2014-18 | -                              | 97.65                        | 2.35                            | -                                  |
|                    | 2015-19 | -                              | 98.54                        | 1.46                            | -                                  |
|                    | 2016-20 | -                              | 98.28                        | 1.72                            | -                                  |
| <b>M.E Thermal</b> | 2012-14 | -                              | -                            | -                               | -                                  |
|                    | 2013-15 | -                              | 100                          | -                               | -                                  |
|                    | 2014-16 | -                              | 93.75                        | 6.25                            | -                                  |
|                    | 2015-17 | -                              | 100                          | -                               | -                                  |
|                    | 2016-18 | -                              | 100                          | -                               | -                                  |

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

| S.No. | Year of Passed out | Name of the Competitive Exam | No. of students cleared |         |
|-------|--------------------|------------------------------|-------------------------|---------|
|       |                    |                              | Appeared                | Cleared |
| 1     | 2012               | GATE                         | 25                      | -       |
|       |                    | TANCET                       | 8                       | 8       |
|       |                    | CAT                          | 1                       | 1       |
| 2     | 2013               | GATE                         | 19                      | 2       |
|       |                    | TANCET                       | 2                       | 2       |
|       |                    | CAT                          | 1                       | 1       |
|       |                    | IELTS                        | 1                       | 1       |
| 3     | 2014               | GATE                         | 3                       | -       |
|       |                    | IELTS                        | 2                       | 2       |
| 4     | 2015               | IELTS                        | 1                       | 1       |
|       |                    | TANCET                       | 4                       | 4       |
| 5     | 2016               | GATE                         | 2                       | -       |
|       |                    | RRB                          | 12                      | -       |

## 24. Student progression

| Student Progression             | Percentage against enrolled |       |       |       |
|---------------------------------|-----------------------------|-------|-------|-------|
|                                 | 2013                        | 2014  | 2015  | 2016  |
| UG to PG                        | 4.8                         | 6.94  | 1.47  | 4.5   |
| PG to Ph.D.                     | -                           | -     | -     | -     |
| Employed                        | 4.8                         | 22.22 | 16.17 | 28.57 |
| • Campus selection              |                             |       |       |       |
| • Other than campus recruitment | 51.61                       | 15.27 | 45.58 | 34.58 |
| Entrepreneurs                   | 1.61                        | 1.3   | 2.9   | 4.5   |

## 25. Diversity of staff

| UG                                        |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | 77.78   | 83.33   | 80.65   | 78.95   | 81.4    |
| from other universities within the State  | 22.22   | 16.67   | 19.35   | 21.05   | 16.1    |
| from other universities from other States | -       | -       | -       | -       | 2.5     |
| PG                                        |         |         |         |         |         |
| of the same parent university             | 72.23   | 66.66   | 70.96   | 73.68   | 74.43   |
| from other universities within the State  | 27.77   | 29.17   | 25.81   | 23.69   | 23.25   |
| from other universities from other States | -       | 4.17    | 3.23    | 2.63    | 2.32    |

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

| S.No | Year of Award | No. of Ph.D. |
|------|---------------|--------------|
| 1    | 2013          | 2            |
| 2    | 2016          | 1            |

## 27. Present details about infrastructural facilities

### a) Library

Total No. of books available in department library is 427 and all the Project reports of Passed out students are maintained as references.

| S.No | Academic Year | Book Titles<br>(in nos.) | Book Volumes<br>(in nos.) |
|------|---------------|--------------------------|---------------------------|
| 1    | 2012 – 13     | 302                      | 307                       |
| 2    | 2013 – 14     | 302                      | 307                       |
| 3    | 2014 – 15     | 314                      | 321                       |
| 4    | 2015 – 16     | 380                      | 390                       |
| 5    | 2016 – 17     | 414                      | 427                       |

**b) Internet facilities for staff and students**

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in all Labs and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel premises.

**c) Total number of class rooms : 11**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                        |
|------|----------------|-------------------------------|--------------------|------------------------------------------------------|
| 1    | D106           | 76                            | Exclusive          | Black board, Tables, Chair, Notice Board, Fan, Light |
| 2    | D107           | 76                            | Exclusive          |                                                      |
| 3    | D108           | 76                            | Exclusive          |                                                      |
| 4    | D109           | 76                            | Exclusive          |                                                      |
| 5    | D110           | 76                            | Exclusive          |                                                      |
| 6    | D111           | 76                            | Exclusive          |                                                      |
| 7    | D210           | 76                            | Exclusive          |                                                      |
| 8    | D211           | 76                            | Exclusive          |                                                      |
| 9    | D212           | 76                            | Exclusive          |                                                      |
| 10   | D305           | 34                            | Exclusive          |                                                      |
| 11   | D306           | 34                            | Exclusive          |                                                      |

**d) Class rooms with ICT facility : 3\***

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                                                         |
|------|----------------|-------------------------------|--------------------|---------------------------------------------------------------------------------------|
| 1    | D106           | 76                            | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair, Notice Board, Fan, Light |
| 2    | D111           | 76                            | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair, Notice Board, Fan, Light |
| 3    | D212           | 76                            | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair, Notice Board, Fan, Light |

\*The Utilization of ICT facilities is closely monitored by HOD & Senior faculty members to ensure fair and effective utilization.

**e) Students' laboratories**

| S.No | Lab No.         | Area in Sq.m | Name of the Lab                 |
|------|-----------------|--------------|---------------------------------|
| 1    | D101            | 201.72       | Computer Aided design (CAD) Lab |
| 2    | D102            |              | Computer Aided Manufacturing    |
| 3    | D103            |              | (CAM) Lab & Simulation Lab      |
| 4    | D115            | 76           | Mechatronics Lab                |
| 5    | D112            | 76           | Metrology And Measurement Lab   |
| 6    | W101            | 124.42       | Dynamics Lab                    |
| 7    | W001, W002.     | 209.93       | Thermal Engineering Lab I       |
| 8    | W003            |              | Thermal Engineering Lab II      |
| 9    | W010,W011, W012 | 240.66       | Lathe shop                      |
| 10   | D013, D014      | 242.2        | Manufacturing Technology Lab I  |
| 11   | D015            |              | Manufacturing Technology Lab II |
| 12   | D004            | 241.43       | Workshop II                     |
| 13   | E003            | 66.91        | CFD Lab                         |
| 14   | E001            | 73           | Research Engines Lab            |

**f) Research laboratories**

| S.No | Year of Establishment | Name of the Lab                   | Description of the Equipments                                                                                                                           |
|------|-----------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 2013 – 14             | PG Thermal Engineering Laboratory | 1. Diesel engine performance, emission and combustion testing<br>2. Solar power meter<br>3. Transesterification process setup.<br>4. Analysis using CFD |
| 2    | 2014-15               | Metal Cutting Laboratory          | 1. DRO milling machine<br>2. Lathe tool dynamometer<br>3. Drill tool dynamometer<br>4. Surface grinding machine                                         |

**28. Number of students of the department getting financial assistance from College.**

| Academic Year | Government        |          | Management        |        |
|---------------|-------------------|----------|-------------------|--------|
|               | Student benefited | Amount   | Student benefited | Amount |
| 2012 – 13     | 26                | 1,39,255 | -                 | -      |
| 2013 – 14     | 40                | 3,61,350 | 6                 | 35,000 |

|           |    |          |    |          |
|-----------|----|----------|----|----------|
| 2014 – 15 | 54 | 4,76,550 | 8  | 95,000   |
| 2015 – 16 | 12 | 53,500   | 14 | 1,35,000 |
| 2016 – 17 | 3  | 32,250   | 27 | 9,05,000 |

**Student Project Related financial assistance from College:**

| Academic Year | Management Sponsorship |        |
|---------------|------------------------|--------|
|               | Type of Event          | Amount |
| 2014 – 15     | SAE Efficycle          | 80,000 |
| 2015 – 16     | SAE Efficycle          | 25,000 |
| 2016 - 17     | SAE SUPRA              | 75,000 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes. Assessment exercise is being carried to offer new programme based on various domain information including such as:

- Number of colleges offering the course
- Scope and Job opportunities for the new programme
- Admission records through TANCET during the past years.
- Requirement of laboratory facility for the new programme
- Strengthening the UG programme level
- Research perspective
- Management perspective to invest in the infrastructure for the new programme

Before starting a new programme, we do thorough analysis of the following:

- The engineering programme with suitable curriculum is framed based on the Industrial requirements, by discussing with industrial experts, Alumni, employers of Alumni, etc.
- A survey is carried out to identify the number of colleges offering the programme under the affiliation of Anna University, Chennai.
- The placement opportunities of the particular programme are thoroughly analysed.
- Budget estimates are made based on the expenditure needed for setting up of the infrastructure, laboratories, equipments, etc.

**New programme offered**

M.E Thermal Engineering Programme is offered from 2013. It is being offered in very few colleges in entire state of Tamilnadu. Colleges are not able to get qualified faculty with expertise in Thermal Engineering. Further in Coimbatore district, only few colleges are offering Thermal engineering programme.

### **30. Does the department obtain feedback from**

#### **a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, the department used to get the feedback from the faculty for each course regarding the syllabus and teaching-learning process. There are few assessment exercises which are listed below:

##### **Course committee meetings:**

- Faculty meetings are conducted regularly with the faculty members to discuss about teaching learning process and curriculum for improving the academic process. Suggestions on curriculum are obtained from faculty members as feedback at the end of semester and considered for strengthening the curriculum.

#### **b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

##### **Student's feedback on staff:**

Students are asked to do rating about each faculty member, subject wise twice in a semester. They are encouraged to give their free feedback without hesitation since the system is anonymous. Based on the rating, the department ensures corrective action. If the marks secured by the faculty is less than the expected level, the following corrective actions are taken.

##### **Response of the department**

Concerned faculty members are asked to give a report about the corrective action that is to be taken. The faculty members are encouraged to attend various FDPs, Seminars and Workshops on recent topics to enhance the subject knowledge for a better deliverable.

##### **Student's feedback on curriculum:**

College has constituted academic improvement committee for each department. Students from different levels (best, average and below average) are the members of the committee, coordinated by a Senior Faculty, headed by the department head. Based on the feedback of the committee, the important suggestions will be noted down, it will be nominated in front of the board of studies members.

##### **Student's feedback on teaching - learning - evaluation:**

##### **Feedback through suggestion box:**

The college has a mechanism of getting feedback from the students through Complaints / Suggestions box. A suggestion box is available near the department head's cabin to enable the students to give their suggestions. The complaints and suggestions received are closely monitored and steps are taken to address the issues raised. The organization strongly believes in the fact that things become better through positive criticism and observes every complaint / suggestion as a step in a ladder leading to development. Principal convenes meeting with the student-representatives and academic improvement council student members in every semester.

### **Feedback through Class Committee:**

Every class has a class committee consisting of teachers handling subjects of the respective classes, student representatives and a chairperson who is not handling any subject for that class. It is like the 'Quality Circle' (most commonly used in industries) with the overall goal of improving the teaching learning process. The class committee for a class under a particular branch is constituted by the head of the department. At least 4 student representatives with a combination of hosteller and day scholar, bright and weak students are included in the class committee. The chairperson of the class committee convenes the class committee meeting. The department head may participate in any class committee meeting, to keep track of the efficient teaching and learning process. Two / Three meetings are held in a semester at regular intervals. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class to improve the effectiveness of the teaching-learning process. The chairperson is required to prepare the minutes of every meeting, submit the same to Principal through department head within two days of the meeting and arrange to circulate among the concerned students and teachers.

### **Specify the feedback analysis process**

Feedback analysis is done manually.

The scores are calculated based on the following points:

- The planning and organisation of the subjects in all courses.
- The presentation/communication of the faculty.
- The student's participation in the class room.
- The class management / assessment of students

The following points are inferred from the scores:

- The understanding capability of students in all subjects
- The participation level of students in the class room
- The problem solving capability of students
- The attainment level of student in all subjects
- The creativity of students

On the basis of the evaluation by the students for the staff handling the subject, staff will be intimated about their approach to the subject. The concerned staff will get to know on what area he / she has to improve and will take appropriate steps.

### **c. Alumni and employers on the programmes and what is the response of the department to the same?**

The main objective of the Alumni Association is to create a forum to bring together and facilitate the exchange of information amongst its members and to give opportunities for its members to have a firm link between alma-mater and its members. Alumni induction

meetings are conducted at the end of every year to induct all the outgoing UG and PG students. Alumni and employer feedback have been collected every year through alumni meets at SNSCT, Coimbatore. The feedback has been analysed to incorporate the suggestions by the alumni and employer on the programme.

**31. List the distinguished alumni of the department (maximum 10)**

| S.No | Name of the Alumni | Batch     | Current Position  | Company                                                |
|------|--------------------|-----------|-------------------|--------------------------------------------------------|
| 1    | Vignesh.P          | 2005-2009 | CEO               | South Indian Metal Process (unit I&II)                 |
| 2    | Dheepica .V.G      | 2005-2009 | Software Engineer | TATA Motors                                            |
| 3    | Arivazhagan.M      | 2006-2010 | Managing Head     | 1.Heavy Engineering and Fabricator,<br>2.RM Industries |
| 4    | Karthikeyan.C.J    | 2006-2010 | CEO               | Universal Hydraulics                                   |
| 5    | Kavitha K          | 2006-2010 | Engineer          | Infosys                                                |
| 6    | Vishnu S           | 2006-2010 | Managing Director | Sri Krishna Engineering Industries                     |
| S.No | Name of the Alumni | Batch     | Current Position  | Company                                                |
| 7    | PeriyaKarthik.V    | 2006-2010 | CEO               | 1.Lakshmi gears<br>2.Sri Lakshmi Industries            |
| 8    | Gokul.G.B          | 2007-2011 | Managing Director | Dynamech Fabricators                                   |
| 9    | Dhanagopal.S       | 2008-2012 | Managing Director | Amman Engineering works                                |
| 10   | V.S.Prabhu         | 2008-2012 | Engineer          | L&T                                                    |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

The Association of Mechanical Engineering organizes many number of Seminars, Workshops, Symposiums and Conferences throughout the year. Also Alumni Association of SNSCT organizes special alumni guest lectures on latest topics in the field of mechanical and its allied engineering.

Value added programmes are conducted during evening hours to facilitate effective participation in the placement drive, effectively apply the knowledge gained in their project work and to apply the knowledge gained for their internship, as a part of their curriculum. The following special lectures were organized by the department.

| S.No               | Name of Event | Title                                                              | Date       | External Experts                                                                                     | No. of Beneficiary |
|--------------------|---------------|--------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------|--------------------|
| <b>2012 – 2013</b> |               |                                                                    |            |                                                                                                      |                    |
| 1                  | Guest Lecture | Guest Lecture On “Strength Of Materials”                           | 14-2-2013  | Prof. P.Nallasamy, Asst. Prof. / Mechanical Dept, PSG College of Technology, Coimbatore.             | 60                 |
| 2                  | Guest Lecture | Guest Lecture On “Software Development In Finite Element Analysis” | 14-3-2013  | Dr.Rajasubranmaniam, Prof. / Mechanical Department, Mount Zion College of Engg And Tech, Pudukkottai | 60                 |
| <b>2013 – 2014</b> |               |                                                                    |            |                                                                                                      |                    |
| 3                  | Guest Lecture | Under Water Robotics                                               | 03-08-2013 | Dr. S.Saravanakumar<br>Manager – Engineer (R&D),                                                     | 140                |



|                    |                  |                                                                          |                |                                                                                                                                  |     |
|--------------------|------------------|--------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|-----|
|                    |                  |                                                                          |                | Mahindra Research Valley,<br>Chennai                                                                                             |     |
| 4                  | Guest<br>Lecture | Design Of Jigs And<br>Fixtures, Press Tools And<br>Moulds                | 18-10-<br>2013 | R.Sureshkumar<br>Assistant Professor,<br>Mechanical Engineering<br>Department,Sri Eshwar<br>College of<br>Engineering,Coimbatore | 70  |
| 5                  | Guest<br>Lecture | Higher Education In Abroad                                               | 08-01-<br>2014 | Mr.Nivas,<br>Engineer (R & D),Mercedes<br>Benz,Germany.                                                                          | 60  |
| 6                  | Guest<br>Lecture | Technical Avenues on CAE                                                 | 27-01-<br>2014 | Mr. R. Radhakrishnan,<br>Senior Manager – Tech Lead<br>Solutions, Chennai.                                                       | 60  |
| 7                  | Guest<br>Lecture | Role of Engineers In<br>Industrial Sector                                | 01-02-<br>2014 | Mr.L.Rajaramanathan<br>Director,<br>Sri Ram Kartick Polymers<br>Pvt. Ltd.,Coimbatore                                             | 60  |
| 8                  | Guest<br>Lecture | Design of Experiments                                                    | 11-02-<br>2014 | Er.K.SrikanthRajan,<br>Senior Design Engineer,<br>General Electric,Chennai                                                       | 60  |
| <b>2014 – 2015</b> |                  |                                                                          |                |                                                                                                                                  |     |
| 9                  | Guest<br>Lecture | Guest Lecture<br>Flywheel and Turning<br>Moment Diagram                  | 14-07-<br>2014 | Dr. G. Sureshkannan,<br>Assistant<br>Professor,Coimbatore<br>Institute of<br>Technology,Coimbatore                               | 380 |
| 10                 | Guest<br>Lecture | Guest Lecture<br>Emerging Trends in<br>Manufacturing Technology          | 01-08-<br>2014 | Er.S.Viswanath B.E,<br>MBA,Research Engineer,<br>ATS ELGI,Coimbatore                                                             | 70  |
| 11                 | Guest<br>Lecture | Guest Lecture<br>Thermodynamics and its<br>Applications                  | 02-08-<br>2016 | Mr.S.Nagarajan<br>Director,Flow<br>Explore,Coimbatore                                                                            | 380 |
| 12                 | Guest<br>Lecture | Guest Lecture<br>Sea Career                                              | 28-08-<br>2014 | Mr. L. Sathish<br>Kumar,Marine Engineer                                                                                          | 350 |
| 13                 | Guest<br>Lecture | Guest Lecture<br>Basics of Hydraulics                                    | 28-08-<br>2014 | Mr.S.RamamurthyChief<br>Executive<br>Officer,Fluidics,Coimbatore                                                                 | 380 |
| 14                 | Guest<br>Lecture | Guest Lecture<br>Prepare for GATE                                        | 12-09-<br>2014 | Mr.P.Srinivas<br>Trainer,Gate<br>Forum,Coimbatore                                                                                | 230 |
| 15                 | Guest<br>Lecture | Guest Lecture<br>The First Interview                                     | 26-09-<br>2014 | Mr. V. Thirumoorthi<br>HR Head, Virgo Valves and<br>Controls Pvt.<br>Ltd.,Coimbatore.                                            | 90  |
| 16                 | Guest<br>Lecture | Guest Lecture<br>Key Drivers and<br>Opportunities in Solar<br>Industries | 03-12-<br>2014 | Mr.R. Raguram,<br>Managing Director,<br>Cares Renewable Pvt.Ltd.,<br>Coimbatore.                                                 | 70  |

|                    |                      |                                                                          |            |                                                                                                      |     |
|--------------------|----------------------|--------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------|-----|
| 17                 | Guest Lecture        | Alumni Guest Lecture<br>CFD and its Applications in Engineering Industry | 10-01-2015 | Mr.S.Ajith<br>Robert Bosch Engineering Solutions,<br>Coimbatore                                      | 350 |
| 18                 | Guest Lecture        | Preparation for Competitive Examinations                                 | 23-01-2015 | Mr.Subramanian,<br>Director, T.I.M.E,<br>Coimbatore.                                                 | 230 |
| 19                 | Guest Lecture        | Preparation for GATE 2016                                                | 23-01-2015 | Mr.Subramanian,<br>Director, T.I.M.E,<br>Coimbatore.                                                 | 90  |
| 20                 | Guest Lecture        | Guest Lecture on Non Destructive Testing                                 | 02-02-2015 | Mr.Damodharan,<br>Proprietor,BIS Certificate,<br>120,Narayanaguru road,<br>Saibabacolony,Coimbatore. | 380 |
| <b>2015 – 2016</b> |                      |                                                                          |            |                                                                                                      |     |
| 21                 | Alumni Guest Lecture | Career Development & Guidance                                            | 04-07-2015 | Er.T.Bharath,<br>Junior Research FellowPSG college of Technology,<br>Coimbatore                      | 90  |
| 22                 | Alumni Guest Lecture | Anti Lock Braking System (Abs)                                           | 04-07-2015 | Er.R.Mohan,<br>Associate Engineer,Robert Bosch,Coimbatore                                            | 85  |
| 23                 | Guest Lecture        | Ansys - Collision Technology & CFD                                       | 04-07-2015 | Mr.PaulRaj,<br>ARRIS CADD Technology,<br>Coimbatore                                                  | 60  |
| 24                 | Guest Lecture        | Industrial Applications of Strength of Material                          | 14-07-2015 | Dr.S.Shankar<br>Associate Professor,Kongu Engineering College,Erode                                  | 90  |
| 25                 | Guest Lecture        | Career Mapping With Self Analysis-Psychological Approach”                | 16-7-2015  | Dr.ManikandanSundaresan<br>Trainer in Soft Skills and Positive Psychology,Pollachi                   | 90  |
| 26                 | Guest Lecture        | Spring Application in Automation                                         | 16-7-2015  | Prof.M.Giriraj<br>Associate Professor<br>VIT-Vellore                                                 | 80  |
| 27                 | Alumni Guest Lecture | Opportunities in Indian Navy                                             | 17-7-2015  | Lt.S.B.Ashiq<br>Indian Navy officer.                                                                 | 90  |
| 28                 | Guest Lecture        | Construction And Operational Management in Thermal Power Plant           | 24-07-2015 | Mr.L.Gopinath<br>Deputy Manager<br>Essar Projects Ltd<br>Mumbai                                      | 76  |
| 29                 | Alumni Guest Lecture | Tips for an Interview and Effective Resume Writing                       | 06-08-2015 | Mr.G.Joshua Samuel,<br>Alumni,<br>2011-15 Batch.                                                     | 370 |

|             |                      |                                                                     |            |                                                                                                                  |     |
|-------------|----------------------|---------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------|-----|
| 30          | Guest Lecture        | Issues & Challenges in Solar Thermal Energy Systems                 | 27-08-2015 | Mr.R.Vignesh,<br>Manager, R&D<br>SRIDEV SOLAR,<br>Coimbatore                                                     | 280 |
| 31          | Guest Lecture        | Logistics & Supply Chain Management in Industries                   | 02-9-2015  | Mr.G.Aravindraj<br>Sr. Engineer- Production<br>ELGI Equipment Pvt Ltd,<br>Coimbatore.                            | 150 |
| 32          | Alumni Guest lecture | How to Develop Yourself in Your Future                              | 15-9-2015  | Mr.G.Joshua Samuel,<br>Alumni,<br>2011-15 Batch                                                                  | 350 |
| 33          | Guest lecture        | Motivational Talk by Industry Experts                               | 15-9-2015  | Mr.S.Sudhakar(IITM)<br>Manager-Product Design<br>BEML-Mysore                                                     | 380 |
| 34          | Guest Lecture        | Brief Introduction to Upstream Industries & Present Indian Scenario | 23-9-2015  | Mr.D.Albert Wilson<br>Executive Engineer (Drilling),<br>Oil and Natural Gas Corporation-Upstream,<br>Tamil Nadu. | 70  |
| 35          | Guest Lecture        | Design of Bearing & its Application                                 | 19-10-2015 | Dr. V.C.Uvaraja<br>Associate Professor<br>Dept of Mechanical Engg<br>BIT-Erode                                   | 380 |
| 36          | Guest Lecture        | Industry Needs and its Applications                                 | 29-08-2015 | Mr.S.Muruganandan,<br>Deputy Manager     ATS<br>ELGI LTD<br>Kuruchi, Coimbatore                                  | 230 |
| 37          | Guest Lecture        | Energy Audit                                                        | 23-1-2016. | Mr.R.Karthik,<br>AP/EEESNSCollege of<br>Technology, Coimbatore                                                   | 30  |
| 38          | Guest lecture        | Automation in Production                                            | 10-3-2016  | Mr.K.B.Muthukumar,<br>Managing Director, KBM<br>Plastics Rubber & Co                                             | 90  |
| 39          | Guest Lecture        | Optimization Techniques for Engineering Research                    | 19-3-2016  | Dr.S.Boopathi,<br>Associate Professor, Bannari<br>Amman Institute of<br>Technology,<br>Sathyamangalam, Erode     | 120 |
| 40          | Guest Lecture        | It Usage in Manufacturing Industries                                | 18-04-2016 | Mr.P.Shankaralingam<br>Supervisor,<br>RamcoPvt Ltd ,Chennai                                                      | 70  |
| 41          | Guest Lecture        | Mass Transfer                                                       | 18-04-2016 | Dr.R.RavikumarPh.D<br>HOD/BIOTECH<br>BIT,Sathy                                                                   | 230 |
| 2016 – 2017 |                      |                                                                     |            |                                                                                                                  |     |

|    |                      |                                                                                                                  |            |                                                                                                                      |     |
|----|----------------------|------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------|-----|
| 42 | Alumni Guest lecture | Present Industry Scenario                                                                                        | 13-07-2016 | Mr.Manu.K.Jacob<br>Sales Executive,<br>Sintex Industries Limited,<br>Chennai.                                        | 70  |
| 43 | Guest lecture        | Importance of GATE                                                                                               | 14-07-2016 | Mr.R.Naresh<br>Scientist Space Craft Design<br>Domain,Bangalore                                                      | 40  |
| 44 | Guest Lecture        | Application of Strength of Materials                                                                             | 27-07-2016 | Mr.J. Nagarjun, M.E,<br>AP/MechPSG Institute of<br>Technology, Coimbatore                                            | 73  |
| 45 | Guest Lecture        | Finite Element Analysis                                                                                          | 27-07-2016 | Mr.Ramesh<br>Assistant Manager,<br>Robert Bosch Engineering<br>Business solutions,<br>Coimbatore                     | 180 |
| 46 | Motivation program   | Ennangalum Vannangalum                                                                                           | 28-07-2016 | Mr.K.Parivallal, M.E,<br>CEO, CNC Training<br>Division & Director,<br>DMW CNC Solutions India<br>PVT LTD,Perundurai. | 213 |
| 47 | Guest lecture        | Awareness about<br>Competitive Exams and<br>Higher Studies                                                       | 11-08-2016 | Mr. Suresh,<br>Director,Astros Educational<br>Institute,Gandhipuram,<br>Coimbatore                                   | 186 |
| 48 | Online exam          | GATE Online Proc Test                                                                                            | 17-08-2016 | Mr.N.K.Praveen Kumar<br>Assistant Manager,GATE<br>AcademyCoimbatore                                                  | 40  |
| 49 | Guest lecture        | Personal skill development                                                                                       | 03-09-2016 | Colonel Ganesh Babu.C<br>Retired SSB selection<br>officer                                                            | 500 |
| 50 | Guest lecture        | Career guidance through<br>GATE                                                                                  | 22-09-2016 | Mr.S.Sumeet Jain,<br>Manufacturing Engineer,<br>Rolls-Royce India Pvt Ltd,<br>Bangalore                              | 46  |
| 51 | Alumni Guest lecture | Recent Trends in<br>Automotive Brake System                                                                      | 01-10-2016 | Er.R.Mohan,<br>Associate Engineer,<br>Robert Bosch,<br>Coimbatore                                                    | 50  |
| 52 | Guest lecture        | Process Planning                                                                                                 | 01-10-2016 | Mr.G.Chandrapragash,<br>Manager-R&D<br>RABWIN Industries,<br>Coimbatore.                                             | 62  |
| 53 | Guest lecture        | Applications of<br>Thermodynamics concepts in<br>steam power plants &<br>Motivational program to the<br>students | 06-10-2016 | Er.ASivaraman, AEE,<br>TANGEDCO, Mettur<br>Thermal Power Plant<br>Station, Salem                                     | 185 |
| 54 | Guest lecture        | Awareness about Various<br>Issues Faced in Day to Day<br>Life by Students                                        | 07-10-2016 | Dr.Edwin Joe<br>Dean, Coimbatore Medical<br>College.                                                                 | 210 |
| 55 | Guest lecture        | Design of Bearings & its<br>Applications                                                                         | 14-10-2016 | Mr.V.Prasath,<br>Design & Development,<br>Aquasub Engineering,<br>Coimbatore                                         | 206 |

|    |               |                                            |            |                                                                                              |     |
|----|---------------|--------------------------------------------|------------|----------------------------------------------------------------------------------------------|-----|
| 56 | Guest lecture | New Product Development                    | 15-10-2016 | Mr.N.Ravindar<br>Senior Engineer<br>Bosch,Bangalore                                          | 56  |
| 57 | Guest lecture | Diesel Exhaust After Treatment Systems     | 18-10-2016 | Mr. A.RavinderBandari<br>R&D-Engine Architect,<br>BOSCHLtd<br>Coimbatore.                    | 150 |
| 58 | Guest lecture | Business opportunities in medical textiles | 05-10-2016 | Mr. S.Thiruppathi<br>Textile Engineer & Scientist,<br>Medical Textiles, SITRA,<br>Coimbatore | 65  |

### VALUE ADDED COURSES

| Academic Year | Name of the course | Course offered to the students (Mention year eg II year) | No. of beneficiaries |
|---------------|--------------------|----------------------------------------------------------|----------------------|
| 2014-2015     | CFD                | IV year                                                  | 11 students          |
| 2015-2016     | CREO               | II,III & IV year                                         | 75 students          |
|               | ANSYS              | II,III & IV year                                         | 11 students          |
| 2016-2017     | CREO               | II &III year                                             | 35 students          |

### 33. List the teaching methods adopted by the faculty for different programmes.

Aiming at the effectiveness of the teaching learning process, the department facilitates the use of various teaching tools such as:

- Creative Learning Methodology (Puzzles created, Logical activities, case studies)
- Layer learning / Learning by doing
- Conducting tutorials for analytical subjects
- Training new concepts based on industrial requirement.
- Final year students are driven to solve real time industrial problems
- Interactive sessions with invited resource persons from industries and academics.
- Wall charts and models are used in all the laboratories and workshops
- **Lecturing:** Oral presentation intended to present information about a topic of particular course
- **Tutorial:** A tutorial is a method of transferring knowledge and may be used as a part of a learning process. More interactive and specific than a book or a lecture; a tutorial seeks to teach by example and supply the information to complete a certain task.
- **Power point Presentation:** The power point presentation is a collection of individual slides that contain information on a topic
- **Animation Video:** The technique of photographing successive drawings or models to create an illusion of movement when the engineering procedure is shown as a sequence.
- **Group Discussion:** A discussion among participants who have an agreed (serious)

topic

- **Seminar:** A seminar is, generally, a form of academic instruction, either at an academic institution or offered by a commercial or professional organization. It has the function of bringing together small groups for recurring meetings, focusing each time on some particular subject, in which everyone present is requested to actively participate.
- **Working Model:** A model is an actual or proposed machine that can do on a small scale work which the machine itself does or is expected to do
- **Chart:** A chart is a graphical representation of data, in which "the data is represented by symbols, such as bars in a bar chart, lines in a line chart, or slices in a pie chart". A chart can represent tabular numeric data, functions or some kinds of qualitative structure and provides different information.
- **Demonstration and Practice:** To present by experiments, examples, or practical application

#### • Use of NPTEL videos

NPTEL videos are introduced from this semester onwards. NPTEL provides E-learning through online Web and Video courses in Engineering, Science and humanities streams. The mission of NPTEL is to enhance the quality of engineering education in the country by providing free online courseware.

- **Activity based assignments**

An initiative is taken to give activity based assignment to the students, so that students will be able to attain all the knowledge levels (Cognitive, Affective and Psychomotor) in the courses offered to them.

- **Comprehension**

The objective of comprehension is to provide opportunity for the student to apply the knowledge acquired during the earlier semesters to real life problems which he/she may have to face in future as an engineer. While learning as how to solve the real life problems, student will receive guidance from the faculty and also review various courses learnt earlier.

- **Research literature survey**

The students in convenient groups of not more than four members are asked to identify a domain to review the research works already carried out by collecting sufficient numbers of research works published in reputed journals. Every student team will have a guide who is the member of the faculty of the institution. The student team has to review the published papers and submit a report at the end of the semester. The report will discuss about the research problems, experiments, techniques and results presented in the journal papers. It is preferred to indicate in the report on the research gap and scope for further research in the selected domain.

- **Lecture by visiting faculty from industries and academics:**

The department has an impressive list of visiting Faculty of experts and eminent persons from reputed academic institutions and forms all spheres of mechanical engineering industries. Lectures / presentations/ discussions by the visiting Faculty, are considered to be

the most important part of co-curricular activities conducted by the department. Guest lectures have been delivered on topics from contemporary subjects such as manufacturing, material science, design and computer aided design. Also experts from industries will help our students to get equipped with recent trends in industries.

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

- Two / Three periodical exams are conducted prior to the end semester examination to continuously monitor the learning depth of students
- Mini projects, participation in seminar and presentation of papers are made mandatory to check and analyze the learning outcomes
- Mock interviews and group discussions are organized to the pre-final year and final year students to evaluate their performance
- Performance indicators of students and faculty are defined and reviewed constantly after each periodical test. After review the remedial action taken.

**Programmed Objectives and outcomes are assessed by the following means in every academic year:**

**Direct Assessment:**

Unit test, internal exams, End semester exams, Assignments, Seminars and case study

**Indirect Assessment:**

Student feedback, Alumni feedback and Parent's feedback

**Learning outcomes are monitored through:**

Student feedback, Class committee meetings, slow learners coaching class and advanced learners activities

**35. Highlight the participation of students and faculty in extension activities.**

**Students are participated in the following activities and faculty members coordinated with concern extension activities**

- Social related activities through NCC/NSS/YRC
- Students and faculties solve industry defined problems through student projects and consultancy works
- SNS Social Responsible Initiatives
- SAE club activities
- Entrepreneurship Development Cell

**NCC**

| Year    | Name of the event | Beneficiaries |          | Collaborating Body (If any) | Outcome           |
|---------|-------------------|---------------|----------|-----------------------------|-------------------|
|         |                   | Internal      | External |                             |                   |
| 2012-13 | CATC CUM RDC      | 1             | -        | -                           | Skill development |

|         |                               |   |        |   |                                                 |
|---------|-------------------------------|---|--------|---|-------------------------------------------------|
| 2013-14 | CATC CUM RDC                  | 4 | -      | - | Skill development                               |
|         | Anti-Tobacco                  | 5 | Public | - | Awareness creation about ill-effects of tobacco |
| 2014-15 | CATC CUM RDC                  | 1 | -      | - | Skill development                               |
|         | CATC CUM RDC                  | 2 | -      | - | Skill development                               |
| 2015-16 | CATC CUM RDC                  | 5 | -      | - | Skill development                               |
| 2016-17 | CATC CUM RDC (Yoga Day)       | 5 | -      | - | Skill development                               |
|         | Cyber Crime Awareness Program | 5 | Public | - | Awareness creation about Cyber Crime            |

### NSS

| Year      | Name of the event                                  | Beneficiaries |          | Collaborating Body(If any) | Outcome          |
|-----------|----------------------------------------------------|---------------|----------|----------------------------|------------------|
|           |                                                    | Internal      | External |                            |                  |
| 2012-13   | Art fest with one of the natural disasters         | 6             | 94       | -                          | Social Awareness |
|           | Medical Camp                                       | 6             | 544      | -                          | Health awareness |
|           | Art Fest- Tree is the Lungs of World               | 6             | 440      | -                          | Social Awareness |
|           | Drawing Competition Non Violence for Humanity      | 6             | 90       | -                          | Social Awareness |
|           | Free Dental Camp                                   | 6             | 250      | -                          | Health awareness |
|           | Free Eye Camp                                      | 6             | 400      | -                          | Health awareness |
| 2014-15   | Elocution, Essay writing(Non Violence to Humanity) | 6             | 200      | -                          | Social Awareness |
| 2016-2017 | Awareness Rally on Population Control              | 5             | Public   | -                          | Social Awareness |
|           | Awareness Program on Cyber Crime                   | 5             | Public   | -                          | Social Awareness |

### YRC

| Year    | Name of the event                                    | Beneficiaries |          | Collaborating Body (If any)                                               | Outcome                |
|---------|------------------------------------------------------|---------------|----------|---------------------------------------------------------------------------|------------------------|
|         |                                                      | Internal      | External |                                                                           |                        |
| 2012-13 | Speech Competition on Vivekananda and his Principles | 13            | -        | VIVEKANANDA KENDRA Kanyakumari                                            | Social Awareness       |
|         | Blood Donation Camp                                  | -             | 107      | MuyarchiMakkalNalaAmaippu, Tiruppur and Government hospital, Mettupalayam | Philanthropic activity |
| 2013-14 | Blood Donation Camp                                  | 50            | 145      | KG hospital, Coimbatore                                                   | Philanthropicactivity  |
|         | Seminar on "YOGA"                                    | 59            | -        | ISHA Institute of Inner sciences, Coimbatore                              | Social Awareness       |
| 2013-14 | Blood Donation Camp                                  | 4             | 60       | Transport department, Tamilnadu                                           | Philanthropicactivity  |



|           |                              |    |        |                          |                                   |
|-----------|------------------------------|----|--------|--------------------------|-----------------------------------|
| 2014-15   | Blood Donation Camp          | 10 | 142    | KG hospital, Coimbatore  | Philanthropicactivity             |
|           | Donation to THALIR           | 5  | 32     | Indian Red Cross Society | Literacy to HIV Infected children |
| 2015-16   | Plantation of saplings       | 8  | Public | -                        | Sustaining the environment        |
|           | Tree Plantation Camp         | 15 | Public | CADD Centre, Coimbatore  | Sustaining the environment        |
|           | Stammering awareness program | 16 | -      | -                        | Recovery from Stammering          |
|           | Passport campaign            | 50 | 900    | -                        | Passport                          |
| 2016-2017 | Blood Donation Camp          | 19 | Public | -                        | Philanthropicactivity             |

## RRC

| Year      | Name of the event               | Beneficiaries |          | Collaborating Body (If any) | Outcome                    |
|-----------|---------------------------------|---------------|----------|-----------------------------|----------------------------|
|           |                                 | Internal      | External |                             |                            |
| 2012-13   | Blood Donation Camp             | 70            | -        | -                           | Philanthropic activity     |
| 2013-14   | Fire safety                     | 115           |          | -                           | Social Awareness           |
| 2014-15   | Empower yourself to succeed     | 10            | -        | -                           | Motivation to the students |
|           | Stress management and awareness | 10            | -        | -                           | Motivation to the students |
| 2016-2017 | Tree Plantation event           | 50            | Public   | -                           | Social Activity            |
|           | Organ Donation Camp             | 50            | Public   | -                           | Social Activity            |

### 36. Give details of “beyond syllabus scholarly activities” of the department.

- One credit courses are included in the curriculum, so that the interested students can take based on industrial needs
- Project learning ( Impart knowledge with real time hands on experience)
- Value added courses beyond working hours
- Congregating National and international conferences for knowledge enrichment
- Student project and paper presentation contests
- Contest for industry defined problems
- Industry internships in private and public sector companies to know about current industrial practices
- Industrial visits are arranged for both students and faculty to learn about current industrial practices in order to identify problems for consultancy and sponsored projects
- Mini projects
- Technical seminars
- Seed money – An initiative which encourages the students to come up with new ideas
- Conducting Placement & Training Classes to improve the Interpersonal Skills of the students
- Conducting NCC and career opportunity training programs regularly
- Conducting Professional Society Activities to improve the knowledge of the students in the currents trends

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

**YES**

- B.E. Mechanical engineering programme is accredited by National Board of Accreditation (NBA), New Delhi since 2014.
- Accredited by NAAC with highest grade 'A' for five years (2012-2017)
- Approved Autonomous Status by UGC, New Delhi for six years (2012-2018).
- Department is recognized as Research Centre by Anna University, Chennai for offering Ph.D. Programme since 2008.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>STRENGTHS</b> <ul style="list-style-type: none"><li>• Mechanical engineering department is having strong teaching abilities with faculty of different cadres as Professors, Associate professors and Assistant professors with different service range &amp; excellent career record.</li><li>• Research works are being carried out which leads to Ph.D degree because of Anna University approved Research Centre.</li><li>• Strong Alumni interaction to fill the gap between curriculum and placement opportunities.</li><li>• Some faculties are with very high industrial experience which gives more exposure to students for meeting the industry standards and also they are doing Consultancy work in Medium and Small Scale industries.</li><li>• State-of-the-art facilities available in all laboratories for effective running of research, final year UG, PG project work and mini project of students.</li></ul> | <b>WEAKNESSES</b> <ul style="list-style-type: none"><li>• Less number of inter disciplinary projects</li><li>• High quality text book Publication by faculty.</li><li>• Collaboration with foreign Universities is lacking.</li><li>• Performance in competitive exams needs to be improved.</li><li>• Low Patents filing</li></ul>                                                                                                                                                                                  |
| <b>OPPORTUNITIES</b> <ul style="list-style-type: none"><li>• Mechanical Engineering students are always having wide openings in various industries.</li><li>• More Industry-Institute Interaction.</li><li>• Interaction of the faculty with outside world for collaborative programmes</li><li>• Revenue generation from industry consultancy projects</li><li>• With Coimbatore being an Entrepreneurial Hub for Mechanical Engineers, there is a possibility of more Entrepreneurs</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>CHALLENGES</b> <ul style="list-style-type: none"><li>• To make adequate job opportunities for all the students in core companies with good salary packages.</li><li>• Lower absorption of fresh engineers by Mechanical industries.</li><li>• Higher Levels of Automation in the Mechanical Engineering Industry</li><li>• Difficulty in signing MoUs with leading core industries</li><li>• High distraction levels among the students which make them impatient to focus or be attentive in the class</li></ul> |

**39. Future plans of the department.**

- To promote research to higher level by getting more number of sponsored research projects with higher amounts of research grants.
- To facilitate higher placements in highly reputed companies.
- Offering quality education for the students with continuously enhancing the infrastructure, laboratory.
- Convert the patent filed(ideas) into products and services.
- Develop center of Excellence in CAE, Foundry, Metal cutting Research, Material science and Welding
- Collaboration with foreign universities for academic excellence.
- To make more class rooms in the department as smart rooms.
- To qualify more students in National/International level tests like GATE, CAT, GMAT, TOEFL, IELTS, GRE, etc

## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

Name of the Department : **Mechatronics Engineering**

Year of Establishment : **2011**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| Programme level | Programmes offered                 | Year of Establishment | Initial Intake | Year of Increase in Intake/ Strength |
|-----------------|------------------------------------|-----------------------|----------------|--------------------------------------|
| UG Programme    | B.E<br>MECHATRONICS<br>ENGINEERING | 2011                  | 60             | -                                    |

### 3. Interdisciplinary courses and departments involved

| S.No | Interdisciplinary Courses                            | Semester | Department                           |
|------|------------------------------------------------------|----------|--------------------------------------|
| 1.   | Technical English – I                                | I        | Science and Humanities               |
| 2.   | Engineering Mathematics – I                          |          | Science and Humanities               |
| 3.   | Engineering Physics                                  |          | Science and Humanities               |
| 4.   | Engineering Chemistry                                |          | Science and Humanities               |
| 5.   | Fundamentals of Computing and Programming            |          | Computer science<br>Engineering / IT |
| 6.   | Engineering Drawing                                  |          | Science and Humanities               |
| 7.   | Fundamentals of Computing and Programming Laboratory |          | Computer science<br>Engineering / IT |
| 8.   | Chemistry Laboratory                                 |          | Science and Humanities               |
| 9.   | Technical English – II                               | II       | Science and Humanities               |
| 10.  | Engineering Mathematics-II                           |          | Science and Humanities               |
| 11.  | Physics of Materials                                 |          | Science and Humanities               |
| 12.  | Environmental Science and Engineering                |          | Science and Humanities               |
| 13.  | Engineering Mechanics                                |          | Mechanical Engineering               |
| 14.  | Physics Laboratory                                   |          | Science and Humanities               |
| 15.  | Transforms and Partial Differential Equations        | III      | Science and Humanities               |
| 16.  | Statistics and Numerical Methods                     | IV       | Science and Humanities               |
| 17.  | Object Oriented Programming using C++                | V        | Information Technology               |
| 18.  | Object Oriented Programming using C++ Laboratory     |          | Information Technology               |

#### 4. Annual/ semester/choice based credit system

| S.No | Academic Year | Years / Semester      | System followed                  |
|------|---------------|-----------------------|----------------------------------|
| 1    | 2013 – 14     | All years & Semesters | Semester System R2013            |
| 2    | 2014 – 15     | All years & Semesters | Semester System R2013            |
| 3    | 2015 – 16     | II, III, & IV years   | Semester System R2013            |
|      |               | First year            | Choice Based Credit System R2015 |
| 4    | 2016 - 17     | III & IV years        | Semester System R2013            |
|      |               | I years               | Choice Based Credit System R2015 |
|      |               | II years              | Choice Based Credit System R2016 |

#### 5. Participation of the department in the courses offered by other departments

| S.No | Courses offered                                     | Departments involved     |
|------|-----------------------------------------------------|--------------------------|
| 1    | Engineering Graphics                                | B.E (CSE, BME, EIE, EEE) |
| 2    | Engineering Practices Laboratory                    | B.E CSE, AUTO            |
| 3    | CAD Laboratory                                      | B.E ECE, AUTO            |
| 4    | Fluid Mechanics & Applied Thermodynamics            | B.E EIE                  |
| 5    | Fluid Mechanics & Applied Thermodynamics Laboratory | B.E EIE                  |
| 6    | Automotive Electronics                              | B.E AUTO                 |
| 7    | Automotive Electronics Laboratory                   | B.E AUTO                 |

#### 6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

|                             | 2012 - 13 |   |    |   | 2013 – 14 |   |    |   | 2014 – 15 |    |    |   | 2015 - 16 |    |    |   | 2016 - 17 |    |    |   |
|-----------------------------|-----------|---|----|---|-----------|---|----|---|-----------|----|----|---|-----------|----|----|---|-----------|----|----|---|
|                             | UG        |   | PG |   | UG        |   | PG |   | UG        |    | PG |   | UG        |    | PG |   | UG        |    | PG |   |
|                             | S         | F | S  | F | S         | F | S  | F | S         | F  | S  | F | S         | F  | S  | F | S         | F  | S  | F |
| <b>Professors</b>           | 1         | 1 | -  | - | 1         | 1 | -  | - | -         | -  | -  | - | -         | -  | -  | - | -         | -  | -  | - |
| <b>Associate Professors</b> | 2         | 2 | -  | - | 2         | 2 | -  | - | 2         | 2  | -  | - | 2         | 2  | -  | - | 1         | 1  | -  | - |
| <b>Assistant Professors</b> | 5         | 5 | -  | - | 6         | 6 | -  | - | 10        | 10 | -  | - | 10        | 10 | -  | - | 11        | 11 | -  | - |

**S-Sanctioned**

**F-Filled**

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| S.No | Name              | Qualification          | Designation                  | Specialization           | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|------|-------------------|------------------------|------------------------------|--------------------------|----------------------------|---------------------------------------------------|
| 1    | Dr.P.Vivekanandan | B.E,M.S.,<br>M.E.,Ph.D | Associate Professor&<br>Head | Engineering Design       | 17years,<br>6 months       | -                                                 |
| 2    | Mr.R.Yasodharan   | B.E., M.E.,<br>(Ph.D)  | Assistant Professor          | Mechatronics             | 9 years,<br>6 months       | -                                                 |
| 3    | Mr.P.Devendran    | B.E., M.E.,<br>(Ph.D)  | Assistant Professor          | CAD/CAM                  | 6 years<br>3 month         | -                                                 |
| 4    | Mr.M.Anand        | B.E., M.E.             | Assistant Professor          | Mechatronics             | 1year<br>5 Months          | -                                                 |
| 5    | Mr.P.Mohankumar   | B.E.,M.E.              | Assistant Professor          | Mechatronics             | 1year<br>5 Months          | -                                                 |
| 6    | Mr.R.Sambasivam   | B.E.,M.E.              | Assistant Professor          | CAD/CAM                  | 1year<br>5 Months          | -                                                 |
| 7    | Ms.T.Kousalya     | B.E.,M.E.              | Assistant Professor          | Mechatronics             | 1year<br>5 Months          | -                                                 |
| 8    | Ms.L.Kanimozhi    | B.E.,M.E.              | Assistant Professor          | Mechatronics             | 1year<br>5 Months          | -                                                 |
| 9    | Ms.P.Kalaiselvi   | B.E.,M.E.              | Assistant Professor          | Mechatronics             | 1year<br>5 Months          | -                                                 |
| 10   | Ms.R.Sinthia      | B.E.,M.E.              | Assistant Professor          | Manufacturing Technology | 1year<br>5 Months          | -                                                 |
| 11   | Mr.S.Pradeep      | B.E.,M.E.              | Assistant Professor          | Mechatronics             | 5 Months                   | -                                                 |
| 12   | Mr.A.Vishnu       | B.E.,M.E.              | Assistant Professor          | CAD/CAM                  | 5 Months                   |                                                   |

**8. Percentage of classes taken by temporary faculty – programme-wise information**

NIL – The department has always been adequately staffed and therefore there is no need for temporary faculty.

**9. Programme-wise Student Teacher Ratio**

| Year      | Programme | Total Students Strength | Faculty | Ratio S/T |
|-----------|-----------|-------------------------|---------|-----------|
| 2012 – 13 | UG        | 71                      | 8       | 9:1       |
| 2013 – 14 | UG        | 138                     | 9       | 16:1      |
| 2014 – 15 | UG        | 199                     | 12      | 17:1      |
| 2015 - 16 | UG        | 196                     | 12      | 16:1      |
| 2016 - 17 | UG        | 190                     | 12      | 16:1      |

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

| Support Staff (technical) and administrative staff | 2012 - 13 |   | 2013 - 14 |   | 2014 - 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 1         | 1 | 1         | 1 | 2         | 2 | 2         | 2 | 2         | 2 |

**S-Sanctioned**

**F-Filled**

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

**NIL**

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

**NIL**

**13. Research facility / centre with**

- State recognition
- national recognition
- international recognition

**NIL**

**14. Publications:**

|                                                                                                                                                                                                | 2012 - 13    | 2013 - 14 | 2014 - 15 | 2015 - 16 | 2016 - 17 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|-----------|-----------|-----------|
| <b>Number of papers published in peer reviewed journals (national / international)</b>                                                                                                         | 5            | 7         | 4         | 6         | 6         |
| <b>Monographs</b>                                                                                                                                                                              | -            | -         | -         | -         | -         |
| <b>Chapter(s) in Books</b>                                                                                                                                                                     | -            | -         | -         | -         | -         |
| <b>Editing Books</b>                                                                                                                                                                           | -            | -         | -         | -         | -         |
| <b>Books with ISBN numbers with details of publishers</b>                                                                                                                                      | -            | -         | -         | -         | -         |
| <b>Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)</b> | -            | -         | -         | -         | -         |
| <b>Citation Index [ Range]</b>                                                                                                                                                                 | <b>1-10</b>  |           |           |           |           |
| <b>SNIP</b>                                                                                                                                                                                    | -            | -         | -         | -         | -         |
| <b>SIR</b>                                                                                                                                                                                     | -            | -         | -         | -         | -         |
| <b>Impact Factor [ Range]</b>                                                                                                                                                                  | <b>0.5-5</b> |           |           |           |           |
| <b>h – index [ Range]</b>                                                                                                                                                                      | -            | -         | -         | -         | -         |

**15. Details of patents and income generated**

NIL

**16. Areas of consultancy and income generated**

| S.No                         | Year    | Name of the faculty                     | Area of Consultancy                                    | Organization                     | Income  |
|------------------------------|---------|-----------------------------------------|--------------------------------------------------------|----------------------------------|---------|
| 1                            | 2015-16 | Dr.P.Vivekanandan<br>Dr.T.Balasubramani | Fabrication of Robot arm                               | Maavan Aeronautics, Chennai      | 5850.00 |
| 2                            |         | Dr.P.Vivekanandan<br>Mr.R.Yasodharan    | Fabrication of PLC based Temperature Monitoring system | Innovative Solution, Tirupur – 3 | 6500.00 |
| Total Income Generated (Rs): |         |                                         |                                                        |                                  | 12,350  |

**17. Faculty recharging strategies**

- Financial support by Institution to attend the International Conferences
- Incentives are provided regularly based on overall performance
- Achievement awards for faculty members were given during Annual College day celebrations
- Appreciation are given to our faculty members for any co-curricular achievements
- Faculty members are motivated to attend various events. The details of event participation during last 5 years are mentioned below.

| S.No | Events                                                                                                                               | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|------|--------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1    | Workshops/<br>Seminars /<br>Conference/ Industry<br>Orientation Programs<br>/ Industrial Visits /<br>Faculty Development<br>Programs | 7       | 18      | 8       | 87      | 58      |

**18. Student projects**

- percentage of students who have done in-house projects including inter-departmental and collaboration with industries / institutes

| Year      | Student Strength | Percentage of Students Project           |                               |
|-----------|------------------|------------------------------------------|-------------------------------|
|           |                  | In-house projects and inter-departmental | Collaboration with industries |
|           | UG               | UG                                       | UG                            |
| 2014 – 15 | 70               | 56.33                                    | 43.33                         |
| 2015 - 16 | 67               | 72.22                                    | 27.77                         |
| 2016 - 17 | 61               | 100                                      | NA                            |



**19. Awards / recognitions received at the national and international level by**

- **Faculty - NIL**
- **Doctoral / post doctoral fellows**

| <b>Name of the Faculty</b> | <b>Award</b> | <b>Year</b> |
|----------------------------|--------------|-------------|
| Dr.P.Vivekanandan          | Doctoral     | 2016        |

- **Students**

| <b>S.No</b>        | <b>Name of the Students</b> | <b>Prize / University Rank</b>           | <b>Event Name</b>                                                                     |
|--------------------|-----------------------------|------------------------------------------|---------------------------------------------------------------------------------------|
| <b>2012 – 2013</b> |                             |                                          |                                                                                       |
| 1.                 | V.Jawahar Krishna           | III                                      | 1000 meter at Anna University Zonal Athletic Meet                                     |
| 2.                 | V.Jawahar Krishna           | Runner up                                | Kho-Kho game at Anna University Zonal Tournament                                      |
| 3.                 | V.Jawahar Krishna           | II                                       | Mini Marathon 2012 at SNS College of Engineering                                      |
| <b>2013- 2014</b>  |                             |                                          |                                                                                       |
| 4.                 | P.Aswin & V.Saravanakumar   | II                                       | Paper Presentation at Techniche Symposium, Indian Institute of Technology Guwahati    |
| 5.                 | P.Aswin & V.Saravanakumar   | III                                      | Paper Presentation at graVITas , Vellore Institute of Technology                      |
| 6.                 | K.B.Prawin Krishna          | II                                       | Paper Presentation at EXTREME'14,Park College of Engineering and Technology           |
| 7.                 | B.Sivashankar               | II                                       | Paper Presentation at EESARGA, Jonson Institute of Technology                         |
| <b>2014 – 2015</b> |                             |                                          |                                                                                       |
| 8.                 | Team SygNitorS              | Best Innovation and Best Autocross Award | National Kart Racing Championship – Season 1 at Bhopal, Maharashtra                   |
| 9.                 | D.Indhujaa                  | II                                       | Paper Presentation at AUTOZINIOS, Sri Krishna College of Engineering and Technology   |
| 10.                | Team-MOTOSYN and Team-RAPO  | I                                        | Minimoto Cross – X for the division 80CC and 50CC at Tamilnadu College of Engineering |
| <b>2015 – 2016</b> |                             |                                          |                                                                                       |
| 11.                | A.Thamil Priya              | 3                                        | Anna University Rank                                                                  |

|     |                             |                                         |                                                                                            |
|-----|-----------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------|
| 12. | C.Pavithra                  | 4                                       | Anna University Rank                                                                       |
| 13. | A.Gowtham                   | 12                                      | Anna University Rank                                                                       |
| 14. | A.Mohamed Alsad             | 12                                      | Anna University Rank                                                                       |
| 15. | K.B.Prawin Krishna          | 13                                      | Anna University Rank                                                                       |
| 16. | Team - SygNitorS            | Best Innovation and Best Traction Award | National Kart Racing Championship – Season 2 Bhopal, Maharashtra                           |
| 17. | G.Sangeeth                  | NCC Directorate                         | Prime Minister Rally by National Credit Corps at New Delhi                                 |
| 18. | C.Jothiraja                 | NCC Directorate                         | NCC National Games (Football) Rally by National Credit Corps at New Delhi                  |
| 19. | S.Vidhun                    | I                                       | Pneumatic Design Contest at 17 <sup>th</sup> FUTURA, Bannari Amman Institute of Technology |
| 20. | S.Naveen Kumar              | I                                       | Best manager at ELECTTRICO, Karpagam Academy of Higher Education                           |
| 21. | S.Kesavan,M. Marudhupandi   | I                                       | Welding event at AUTOZINIOUS, Sri Krishna College of Engineering and Technology            |
| 22. | Mechatronics students team  | I                                       | UDAAN at Kumaraguru College of Technology Yugam                                            |
| 23. | S.Sujay and M.Sangamithirai | I                                       | Quiz at Prasidhi' 16, Kongu Engineering College                                            |
| 24. | S.Sujay and M.Sangamithirai | I                                       | Connection at KEC Prasidhi' 16                                                             |
| 25. | S.Sujay and M.Sangamithirai | II                                      | Paper Presentation at KEC Prasidhi' 16                                                     |
| 26. | S.Sujay and M.Sangamithirai | II                                      | Paper Presentation at HCET (Mini-Enthra' 16)                                               |
| 27. | S.Sujay and M.Sangamithirai | II                                      | Paper Presentation at Nehru Institute of Engineering and Technology(Techsym' 16)           |
| 28. | M.Durga, P.Aravindan        | III                                     | Basket ball at Anna University Zonal Tournament at SNSCT                                   |
| 29. | S.Vijayaragavan             | Runner                                  | Badminton at Anna University Zonal Tournament at KCT                                       |
| 30. | R.Balakrishnan, P.Aravindan | Winner                                  | Cricket at Anna University Zonal Tournament at KCT                                         |
| 31. | Abinash, V.Manimaran        | Runner                                  | Football at Anna University Zonal Tournament at GCT                                        |
| 32. | M.Durga                     | III                                     | Boxing at Anna University Inter-                                                           |

|                    |                  |                                |                                                                                               |
|--------------------|------------------|--------------------------------|-----------------------------------------------------------------------------------------------|
|                    |                  |                                | Zonal Tournament at Kongunadu Engineering College                                             |
| 33.                | R.Solairaja      | II                             | Kabaddi at Park College of Engineering and Technology (Park Alumini Trophy-16)                |
| 34.                | C.Jothiraja      | II                             | Hand ball at Park College of Engineering and Technology (Park Alumini Trophy-16)              |
| 35.                | R.Solairaja      | Winner                         | Kabaddi at SNS College of Technology (INTRAMURALS)                                            |
| 36.                | R.Solairaja      | III                            | Kabaddi at Adithya Institute of Technology (5 <sup>th</sup> Chinnasamy Memorial Trophy 15-16) |
| <b>2016 – 2017</b> |                  |                                |                                                                                               |
| 37.                | T.Aravinthkumar  | 2                              | Anna University Rank                                                                          |
| 38.                | T.Udhayakumar    | 6                              | Anna University Rank                                                                          |
| 39.                | M.Durga          | 7                              | Anna University Rank                                                                          |
| 40.                | V.Surendran      | 8                              | Anna University Rank                                                                          |
| 41.                | S.Ragavendran    | 17                             | Anna University Rank                                                                          |
| 42.                | V.Gangatharan    | 21                             | Anna University Rank                                                                          |
| 43.                | Team – SygNitorS | Best Innovation Award          | National Kart Racing Championship – Season 3 at Kolhapur, Maharashtra                         |
| 44.                | Team – Nitro     | First Runner Up                | National Kart Racing Championship – Season 3 at Kolhapur, Maharashtra                         |
| 45.                | T.Dharanitharan  | Dr.Kalam Young Scientist Award | World Youth Federation at Anna University                                                     |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

| S.No               | Event (Seminars/ Conferences/ Workshops) | Title                           | Duration | Sources of funds | Participants |
|--------------------|------------------------------------------|---------------------------------|----------|------------------|--------------|
| <b>2013 – 2014</b> |                                          |                                 |          |                  |              |
| 1.                 | Workshop                                 | Hands on Training on Automation | 2 Days   | SNSCT            | 63           |
| <b>2014 -2015</b>  |                                          |                                 |          |                  |              |
| 2.                 | Workshop                                 | ROBO VISION                     | 2 Days   | SNSCT            | 86           |

|                    |          |                                                     |        |       |     |
|--------------------|----------|-----------------------------------------------------|--------|-------|-----|
| 3.                 | Workshop | Industrial Robotics                                 | 2 Days | SNSCT | 126 |
| 4.                 | Workshop | Arts & Crafts                                       | 1 Day  | SNSCT | 37  |
| <b>2015 – 2016</b> |          |                                                     |        |       |     |
| 5.                 | Seminar  | Awareness Program on YOGA                           | 1 Day  | SNSCT | 120 |
| 6.                 | Workshop | Modelling and Simulation using MATLAB & SIMULINK    | 1 Day  | SNSCT | 50  |
| 7.                 | Workshop | A First course in Finite Element Analysis           | 1 Day  | SNSCT | 48  |
| 8.                 | Workshop | MEMS sensors for Robotic Applications using Arduino | 1 Day  | SNSCT | 65  |
| 9.                 | Workshop | Robotics in Industry                                | 1 Day  | SNSCT | 62  |
| 10.                | Workshop | Basics of PLC & SCADA                               | 1 Day  | SNSCT | 60  |
| <b>2016 – 2017</b> |          |                                                     |        |       |     |
| 11.                | Seminar  | Benefits of Autodesk 360                            | 1 Day  | SNSCT | 50  |
| 12.                | Seminar  | DCS with SCADA                                      | 1 Day  | SNSCT | 50  |
| 13.                | Seminar  | Research Proposal Writing Execution and Patenting   | 1 Day  | SNSCT | 65  |
| 14.                | Workshop | Robotics                                            | 2 Days | SNSCT | 50  |
| 15.                | Workshop | Communication Skills and Communication Development  | 2 Days | SNSCT | 50  |
| 16.                | Workshop | Discussion on Aptitude, Verbal & Reasoning          | 1 Day  | SNSCT | 45  |
| 17.                | Workshop | 3D Printing                                         | 2 Days | SNSCT | 40  |
| 18.                | Workshop | PLC & Robotics                                      | 2 Days | SNSCT | 45  |
| 19.                | Workshop | Machine Drawing                                     | 1 Day  | SNSCT | 60  |

**21. Student profile course-wise:**

| Year      | Name of the Course | Application Received | Selected |        | Pass percentage |        |
|-----------|--------------------|----------------------|----------|--------|-----------------|--------|
|           |                    |                      | Male     | Female | Male            | Female |
| UG        |                    |                      |          |        |                 |        |
| 2009-2013 | B.E MCT            | NA                   | NA       | NA     | NA              | NA     |
| 2010-2014 | B.E MCT            |                      | NA       | NA     | NA              | NA     |
| 2011-2015 | B.E MCT            |                      | 68       | 02     | 89.70           | 100    |
| 2012-2016 | B.E MCT            |                      | 63       | 04     | 80.95           | 100    |

**22. Diversity of Students**

| Name of the Course | Batch   | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| B.E MCT            | 2012-16 | -                              | 95.53                        | 4.47                            | -                                  |
|                    | 2013-17 | -                              | 98.37                        | 1.63                            | -                                  |
|                    | 2014-18 | -                              | 97.06                        | 2.94                            | -                                  |
|                    | 2015-19 | -                              | 96.73                        | 3.27                            | -                                  |
|                    | 2016-20 | -                              | 98.04                        | 1.96                            | -                                  |

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

| S.No | Year of Passed out | Name of the Competitive Exam | No. of students cleared |         |
|------|--------------------|------------------------------|-------------------------|---------|
|      |                    |                              | Appeared                | Cleared |
| 1    | 2015               | IELTS                        | 2                       | -       |
| 2    | 2016               | IELTS                        | 1                       | 1       |
|      |                    | GATE                         | 3                       | 1       |
|      |                    | RRB                          | 1                       | 0       |

**24. Student progression**

| Student Progression             | Percentage against enrolled |       |
|---------------------------------|-----------------------------|-------|
|                                 | 2015                        | 2016  |
| UG to PG                        | 2.85                        | 2.98  |
| PG to Ph.D.                     | NIL                         | NIL   |
| Employed                        | 41.42                       | 73.13 |
| • Campus selection              |                             |       |
| • Other than campus recruitment | 0                           | 16.41 |
| Entrepreneurs                   | 1.42                        | 1.49  |

**25. Diversity of staff**

| UG/PG                                     |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | 75      | 77.78   | 91.67   | 91.67   | 100     |
| from other universities within the State  | 12.5    | 11.11   | -       | -       | -       |
| from other universities from other States | 12.5    | 11.11   | 8.33    | 8.33    | 0       |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

| S.No | Year of Award | No. of Ph.D. |
|------|---------------|--------------|
| 1    | 2016          | 1            |

**27. Present details about infrastructural facilities****a) Library**

Total No. of books available in department library is 249 and also it has project reports of all the students.

| S.No | Academic Year | Book Titles (in nos.) | Book Volumes (in nos.) |
|------|---------------|-----------------------|------------------------|
| 1    | 2012 – 13     | -                     | -                      |
| 2    | 2013 – 14     | 94                    | 94                     |

|   |           |     |     |
|---|-----------|-----|-----|
| 3 | 2014 – 15 | 158 | 162 |
| 4 | 2015 – 16 | 242 | 249 |

**b) Internet facilities for staff and students**

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in all labs and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel.

**c) Total number of class rooms : 04**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                                                             |
|------|----------------|-------------------------------|--------------------|-------------------------------------------------------------------------------------------|
| 1    | C101           | 86.4                          | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair Notice Board, Wooden cupboard |
| 2    | C104           | 86.4                          | Exclusive          | LCD Projector, White screen, Black board, Tables, Chair, Notice Board, Wooden cupboard    |
| 3    | C105           | 86.4                          | Exclusive          | Black board, Tables, Chair, Notice Board                                                  |
| 4    | C206           | 33.5                          | Exclusive          | Black board, Tables, Chair                                                                |

**d) Class rooms with ICT facility: 2**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                                                              |
|------|----------------|-------------------------------|--------------------|--------------------------------------------------------------------------------------------|
| 1    | C101           | 86.4                          | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair, Notice Board, Wooden cupboard |
| 2    | C104           | 86.4                          | Exclusive          | LCD Projector, White screen, Black board, Tables, Chair                                    |

**e) Students' laboratories :**

| S.No | Lab No. | Area in Sq.m | Name of the Lab                               |
|------|---------|--------------|-----------------------------------------------|
| 1    | C311    | 89           | Microprocessor and Microcontroller Laboratory |
| 2    | C312    | 89           | Applied Mechatronics Laboratory               |
| 3    | C203    | 64           | PLC and SCADA Laboratory                      |
| 4    | C013    | 78           | CAD Laboratory                                |
| 5    | C012    | 64           | Robotics Laboratory                           |
| 6    | B311    | 133          | Sensors Laboratory                            |
| 7    | B312    |              | Signal Processing laboratory                  |
| 8    | C312    | 78           | Avionics Laboratory                           |

**f) Research laboratories : 01**

| S.No | Established Year | Name of the Lab | Name of the Equipment                          | Qty. in Nos. |
|------|------------------|-----------------|------------------------------------------------|--------------|
| 1    | 2014 – 15        | CAD Laboratory  | High Configuration PC's with research Software | 40           |

**28. Number of students of the department getting financial assistance from College.**

Total Number of Students : 216

Total Amount : 32,62,900

| Academic Year | Government        |           | Management        |          |
|---------------|-------------------|-----------|-------------------|----------|
|               | Student benefited | Amount    | Student benefited | Amount   |
| 2012 - 13     | NIL               | NIL       | NIL               | NIL      |
| 2013 – 14     | NIL               | NIL       | NIL               | NIL      |
| 2014 – 15     | NIL               | NIL       | 20                | 1,25,000 |
| 2015 – 16     | 128               | 25,91,900 | 20                | 33000    |
| 2016 - 17     | NOT YET RECIVED   | NA        | 48                | 5,13,000 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

The department conduct the need analysis for the proposed new program before introducing. The need analysis comprises the following demand for the program, employment opportunities and relevance to the local needs. The feedback on these issues is collected from all the stakeholders and also based on alumni, senior students, recruiters, parents and enterprise.

**30. Does the department obtain feedback from**

**a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes Feedback has been collected from Faculty on curriculum as well as teaching-learning-evaluation during the faculty meetings & BoS meetings. Each faculty members is provided with an expertized subject to make a comparison with the other college's curriculum to enhance and strengthen the subject's quality. The final decision will be taken by BoS in this regard.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Feedback has been collected on the above criteria's to improve the quality of the programme.



### **Students on Staff:**

Evaluation of students on staff has been obtained from the students on 10 criteria's for 100 marks. The faculty members are below par in the marks are requested to enhance their knowledge on the subject by attending various programs like Faculty Development Program, Workshops, Seminars, etc.,

### **Students on Curriculum:**

The suggestions have been taken from Toppers, Average & Slow learners about their needs on curriculum. Based on their needs, the changes in the subject will be incorporated during the Board of Studies meeting.

### **Students on Teaching-learning-Evaluation:**

The suggestions on the teaching-learning-evaluation are invited from the students through the regular interactions such as Quality circle meetings & Class committee meetings to improve the quality of the programme.

### **Response of the Department:**

Based on the suggestions from the students, the chair person of the committee will prepare the minutes of meeting and the same will be submitted to HoD & Principal. The necessary actions will be initiated on the suggestions by HoD with the approval of the Principal.

#### **c. Alumni and employers on the programmes and what is the response of the department to the same?**

Yes Alumni Survey & Employer Survey is normally collected. Based on the feedback suitable actions are initiated.

#### **31. List the distinguished alumni of the department (maximum 10)**

| S.No | Name of the Alumni | Batch   | Current Position            | Company                     |
|------|--------------------|---------|-----------------------------|-----------------------------|
| 1    | Vignesh R          | 2011-15 | Network Engineer            | Ncube, Bangalore            |
| 2    | Karthikeyan K      |         | Process Engineer            | Roots Industry Limited      |
| 3    | Mithun N           |         | Associate Software Engineer | Tech Mahindra               |
| 4    | Mohamed Alsad A    |         | Associate Software Engineer | Tech Mahindra               |
| 5    | Prabhakaran N      |         | Quality Control Engineer    | Sri Sakthi Automobiles      |
| 6    | Aravinthkumar T    | 2012-16 | Design Engineer             | LMW, Coimbatore             |
| 7    | Udhaya Kumar T     |         | Design Engineer             | LMW, Coimbatore             |
| 8    | Sriram R           |         | Associate Software Engineer | Tech Mahindra               |
| 9    | Kirubakaran S      |         | Jr.Engineer                 | Milltex Engineering (P) Ltd |
| 10   | Manimaran V        |         | Service Engineer            | Ventura Omnitech (P) Ltd    |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| S.No               | Name of Event | Title                                                            | Date                     | External Experts                                                                                                | No. of Beneficiary |
|--------------------|---------------|------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------|
| <b>2013 - 2014</b> |               |                                                                  |                          |                                                                                                                 |                    |
| 1                  | Guest Lecture | Introduction to AMER Graduation for students                     | 31.01.2014               | Mr. R. Rajesh, CEO of SPIRAL Technologies                                                                       | 60                 |
| 2                  | Workshop      | Hands on Training on Automation                                  | 28.03.2014 & 29.03.2014  | Mr. S. ThilibhanBabu, Chief Trainee, iNVENTOR AUTOMATION                                                        | 100                |
| 3                  | Guest Lecture | Project Management                                               | 21.01.2014               | Mr. H. Vijay Kumar of MECHNIQUES Pvt Ltd                                                                        | 65                 |
| 4                  | Guest Lecture | Opportunities for Higher Studies and Auto mobile jobs in Germany | 20.01.2014               | Mr. NivasDevendran, (Alumni – 2011 Mechanical Passed out batch) Project Consultant, Mercedes Benz Ltd, Germany  | 70                 |
| 5                  | Guest Lecture | Industrial Automation                                            | 01.02.2014               | Mr. A. K. Siva Sakthi, Business Development Engineer, Axis Global Institute of Industrial Training              | 68                 |
| 6                  | Guest Lecture | SAE and CFD                                                      | 04.02.2014               | Mr. J. Krishna Raj, Member of SAE Club                                                                          | 70                 |
| 7                  | Guest Lecture | Importance of PLC                                                | 05.02.2014               | Mr. S. ThilibhanBabu, Chief Trainee, iNVENTOR AUTOMATION                                                        | 70                 |
| <b>2014 – 2015</b> |               |                                                                  |                          |                                                                                                                 |                    |
| 1                  | Workshop      | ROBO VISION                                                      | 17.07.2014 to 18.07.2014 | Mr. Arpit Gupta, Robo Species Technologies, New Delhi                                                           | 120                |
| 2                  | Workshop      | Arts & Crafts                                                    | 27.09.2014               | Mrs. G. Muthu Lakshmi, Art Designer, Coimbatore India                                                           | 120                |
| 3                  | Guest Lecture | Automation and Drives                                            | 04.07.2014               | Mr. K. Sathish Kumar, Automation Trainer, Ladder Logix, Coimbatore                                              | 60                 |
| 4                  | Guest Lecture | Introduction about Automation and Electric Drives                | 05.07.2014               | Mr. R. Madhusoothanan, Manager –Sales, Siemens Ltd., Coimbatore and Mr. A. Sasikumar, Director, Genn Automation | 65                 |
| 5                  | Guest Lecture | Industrial Automation                                            | 09.07.2014               | Mr. SangramDeshmukh, Associate, Director, Educate to Automate, Pune                                             | 70                 |
| 6                  | Guest Lecture | Introduction to Embedded Systems                                 | 14.07.2014               | Mr. K. Rajesh Kumar, Embedded Systems Designer – Exclusive, Trustee Research Center, Coimbatore                 | 68                 |

| S.No | Name of Event | Title                                                 | Date                     | External Experts                                                                                               | No. of Beneficiary |
|------|---------------|-------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------|--------------------|
| 7    | Guest Lecture | Industrial Automation Using Embedded Systems and PLC  | 15.07.2014               | Mr. Ravi Raja Pandian, Business Development, and Mr. A. Perumal, Technical Lead, Tech i Automation, Coimbatore | 65                 |
| 8    | Guest Lecture | Automation                                            | 16.07.2014               | Mr. R. FedrickBasker, Business Head, MTAB, Bangalore                                                           | 60                 |
| 9    | Guest Lecture | Guest Lecture on “Importance of Communication Skills” | 17.07.2014               | Dr. A. Shanmugam, Director/IIPC, SNS College of Technology, Coimbatore                                         | 75                 |
| 10   | Guest Lecture | Basic of Robotics                                     | 19.07.2014               | Mr. Arpit Gupta, Research Engineer, Robospecies Tech. Pvt. Ltd                                                 | 100                |
| 11   | Guest Lecture | Stress Management & Awareness                         | 19.07.2014               | Mr. Meganathan, Psychologist, SreeKanna Clinic, Coimbatore                                                     | 100                |
| 12   | Guest Lecture | SL CNC Programming Software                           | 21.07.2014               | Mr. R. Anbarasan, ADML, MKT Engineering, coimbatore                                                            | 65                 |
| 13   | Guest Lecture | Engg. Materials & Metallurgy                          | 21.07.2014               | Mr. Dr. G. Suresh Kannan, Assistant Prof. Coimbatore Institute of Technology, Coimbatore                       | 70                 |
| 14   | Guest Lecture | Opportunities in Automation Field                     | 04.08.2014               | Ms. SashiSairaman, Director, MTAB Technology Centre, Coimbatore                                                | 70                 |
| 15   | Guest Lecture | Energy Conservation                                   | 04.08.2014               | Mr. N. R. Vaideeswaran, Divisional Manager, RRC, Coimbatore                                                    | 70                 |
| 16   | Guest Lecture | Quality Assurance                                     | 09.08.2014               | Mr. K. Satheesh Kumar, Engineer, Pricol Technologies Ltd., Coimbatore                                          | 70                 |
| 17   | Workshop      | Industrial Robotics                                   | 25.08.2014 to 26.08.2014 | Mr. Navdeep Singh, Research Engineer- Spark Lab Engineering System Pvt. Ltd, Noida, India                      | 60                 |
| 17   | Guest Lecture | Basics of Hydraulics                                  | 28.08.2014               | Mr. Ramamurthy, Chief Executive Officer, FLUIDICS, Coimbatore                                                  | 60                 |
| 18   | Guest Lecture | Aero Modeling and Simulation                          | 04.09.2014               | Mr. R. Manikandan, Dept. Of Aeronautical Engineering, SNS College of Technology, Cbe                           | 75                 |

| S.No               | Name of Event | Title                                      | Date       | External Experts                                                                                                   | No. of Beneficiary |
|--------------------|---------------|--------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------|--------------------|
| 19                 | Guest Lecture | Computer Integrated Manufacturing          | 08.09.2014 | Mr. R. Rajesh, CEO of SPIRAL Technologies, Coimbatore                                                              | 80                 |
| 20                 | Guest Lecture | Thermodynamic Principles and Applications  | 15.09.2014 | Mr. G. Suresh Khannan, Assistant Professor (Govt.), Coimbatore Institute of Technology, Coimbatore                 | 70                 |
| 21                 | Guest Lecture | GPCB Designing and Wave Soldering          | 22.09.2014 | Mr. Sri Selvakumar, Proprietor, Femto SMA Zone Pvt Ltd, Coimbatore                                                 | 70                 |
| 22                 | Guest Lecture | Understanding the Industry need            | 22.09.2014 | Mr. S. U. Mothilal, Head Emerging Business, Milltex Engineers Pvt. Ltd., Coimbatore                                | 70                 |
| 23                 | Guest Lecture | Embedded systems and Applications          | 22.09.2014 | Mr.V. Periasamy, CEO & Mr. G. Venkateshwaran, chief trainer, Eitec Software India Pvt. Ltd., Coimbatore            | 70                 |
| 24                 | Guest Lecture | Introduction to Embedded Systems Companies | 24.09.2014 | Ms. Priyadharshini, Embedded trainer, Eitec software india Pvt. Ltd., Coimbatore                                   | 120                |
| 25                 | Guest Lecture | Industrial Robotics                        | 25.09.2014 | Mr. Navdeep Singh, Research Engineer- Spark Lab Engineering System Pvt. Ltd, Noida                                 | 120                |
| 26                 | Guest Lecture | Empower Yourself to Succeed                | 30.09.2014 | Mr. Ganesh Kumar, Application Engineer, Global Application Dept., International Flavors & Fragrances Inc., Chennai | 70                 |
| 27                 | Guest Lecture | Beams and Deflections                      | 17.10.2014 | Mr. Santhanakrishnan, R., Assistant Professor (SG), Dept. Of Aeronautical Engg., SNS College of Tech.              | 65                 |
| 28                 | Guest Lecture | Engineering Materials                      | 01.11.2014 | Mr. K. Krishna Kumar, Assistant Professor, Dept. Of Mechanical Engg., Adithya Institute of Technology              | 65                 |
| 29                 | Guest Lecture | Microcontroller and Embedded System        | 23.02.2015 | Mr. BalajiKarthick, Embedded Consultant, Appin Technology, Coimbatore                                              | 70                 |
| <b>2015 – 2016</b> |               |                                            |            |                                                                                                                    |                    |
| 1                  | Seminar       | Awareness Program on YOGA                  | 14.09.2015 | G.Saravanan, CTO iSMART Technology                                                                                 | 200                |
| 2                  | Workshop      | Modelling and Simulation using             | 03.09.2015 | A.Krishnakumar, Design Engineer                                                                                    | 150                |

|    |               |                                                                      |            |                                                                              |     |
|----|---------------|----------------------------------------------------------------------|------------|------------------------------------------------------------------------------|-----|
|    |               | <b>MATLAB &amp; SIMULINK</b>                                         |            |                                                                              |     |
| 3  | Workshop      | A First course in Finite Element Analysis                            | 22.09.2015 | JagadeshChander M, Business Head, Maavan Aeronautics.                        | 68  |
| 4  | Workshop      | MEMS sensors for Robotic Applications using Arduino                  | 31.12.2015 | Mr.K.Muthukrishnan, AAtekRoboPvt Ltd, Coimbatore                             | 68  |
| 5  | Workshop      | Robotics in Industry                                                 | 06.04.16   | Mr.Arunkumar Branch Manager, Robo Tech                                       | 60  |
| 6  | Workshop      | Robotics and Automation                                              | 14.09.2015 | G.Saravanan, CTO iSMART Technology                                           | 68  |
| 7  | Guest Lecture | Industrial Automation overview for student                           | 03.07.2015 | Mr. S.ThilibhanBabu, Senior Design Engineer, Inventor Automation, Coimbatore | 120 |
| 8  | Guest Lecture | Recent Trends in IoT                                                 | 04.07.2015 | Mr.R.Ramesh, DGM, CADD Technology                                            | 60  |
| 9  | Guest Lecture | Raspberry for Robot                                                  | 08.07.2015 | Mr. G.Saravanan, CTO, iSmart Technology                                      | 60  |
| 10 | Guest Lecture | Python for Robot                                                     | 08.07.2015 | Mr. G.Saravanan, CTO, iSmart Technology                                      | 60  |
| 11 | Guest Lecture | Advance industrial Automation system using PLC                       | 10.07.2015 | Mr.J.Prabhu, Manager, Atlantic Drives & Control                              | 61  |
| 12 | Guest Lecture | Non Destructive testing                                              | 10.07.2015 | Mr.Senthilkumar, Training Manager, Coimbatore                                | 68  |
| 13 | Guest Lecture | Acquiring proficiency in communication skills to be better engineers | 16.07.2015 | P. ANJESH, B.A(Journalism) Motivational Speaker                              | 150 |
| 14 | Guest Lecture | Job opportunities in Gulf country                                    | 22.07.2015 | Dr.S.Neelamani, Senior Research scientist, Kuwait                            | 67  |
| 15 | Guest Lecture | Dreams come true                                                     | 31.07.2015 | Mr.T.P.Ashiq, Airlines operations Engineer, Bangalore International Airport  | 67  |
| 16 | Guest Lecture | How to get internship on industrial companies                        | 07.08.2015 | Mr.MoorthyLal, CEO, Mill Tex Industry private limited.                       | 67  |
| 17 | Guest Lecture | Introduction to UAV Research, Embedded system, Aero modelling        | 18.08.2015 | M.JagadeshChander, Maavan Aeronautics                                        | 120 |
| 18 | Guest Lecture | Air stranded Cycle                                                   | 04.09.15   | Dr.G.SureshKanna, Assistant professor, CIT, Coimbatore                       | 61  |

|    |               |                                        |                 |                                                                 |    |
|----|---------------|----------------------------------------|-----------------|-----------------------------------------------------------------|----|
| 19 | Guest Lecture | Application of Bio-Medical Instruments | 16.09.15        | Dr.Thirunavukarasu, Professor, Raja muthaya medical College     | 67 |
| 20 | Guest Lecture | Design of Spring                       | 15.09.15        | Dr.V.C.Uvaraja Associate Professor, BIT, Sathy                  | 61 |
| 21 | Guest Lecture | Design of Joints                       | 25.09.15        | Dr.G.Sureshkannan Associate Professor, CIT, Coimbatore          | 61 |
| 22 | Guest Lecture | Application of Power Electronics       | 06.10.15        | Mr.M.Sreenivasan, Associate Professor, BIT, Sathy               | 61 |
| 23 | Guest Lecture | Automation in Automobile               | 07.10.15        | Dr.N.Kulasekaran ,FIAT Crystal                                  | 61 |
| 24 | Guest Lecture | Manufacturing Technology               | 20.10.15        | Dr.G.Senthil Kumar, Associate Professor, BIT, Sathy             | 68 |
| 25 | Guest Lecture | Automotive system                      | 28.10.15        | NivasDevendren (Alumni)                                         | 68 |
| 26 | Guest Lecture | Robotics in Industry                   | 31.12.2015      | Mr.K.Muthukrishnan, AAtek Robo Pvt Ltd, Coimbatore              | 67 |
| 27 | Guest Lecture | Application of Robot in Industry       | 06.01.2016      | Mr.Arunkumar Branch Manager, Robo Tech                          | 67 |
| 28 | Guest Lecture | Higher Studies in Foreign              | 09.01.2016      | M.Dhineshkumar, Edwise Education Pvt Ltd, Coimbatore            | 70 |
| 29 | Guest Lecture | Usage of Software in Industry          | 21.01.2016(FN ) | Mr.Sasikumar, MARS Academy, Coimbatore                          | 70 |
| 30 | Guest Lecture | Usage Software                         | 21.01.2016(AN ) | Mr.Sasikumar, MARS Academy, Coimbatore                          | 70 |
| 31 | Guest Lecture | How CNC Machine Works and Applications | 22.01.2016      | Mayilsamy, Service Engineer, Zemto Software Pvt Ltd, Coimbatore | 80 |
| 32 | Guest Lecture | Basics of PLC & SCADA                  | 10.02.2016      | Mr.Ajith surrender IPCS Automation                              | 68 |
| 33 | Guest Lecture | Overseas Education                     | 11.02.2016      | Mrs.Maheswari, ARRIS Academy                                    | 67 |
| 34 | Guest Lecture | Application of Industrial Robots       | 04.03.2016      | Mr.Sathish, Director, Axis Global Automation.                   | 60 |

|                    |               |                                                     |                          |                                                                                                                       |     |
|--------------------|---------------|-----------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------|-----|
| 35                 | Guest Lecture | Personality development & communication soft skills | 30.03.2016 & 31.03.2016  | Ms.Kalpana Gopal, Soft skill trainer, MARS academy..                                                                  | 68  |
| 36                 | Guest Lecture | Industrial automation and robotics                  | 13.03.2016               | Mr.V.Ragul, Application Engineer & Mr.P.Karthikeyan, Business Development Engineer,Axis Global Automation, Coimbatore | 60  |
| <b>2016 – 2017</b> |               |                                                     |                          |                                                                                                                       |     |
| 37                 | Workshop      | Robotics                                            | 20.7.16 & 21.7.16        | Robotics Artificial Intelligent Foundation                                                                            | 60  |
| 38                 | Workshop      | Communication Skills and Communication Development  | 06.08.2016 & 07.08.2016  | Mr.Sudhish, HR Manager, Infosys                                                                                       | 50  |
| 39                 | Workshop      | Discussion on Aptitude, Verbal & Reasoning          | 20.08.2016               | Mr. Sasi Kumar, Managing Partner, Mars Academy                                                                        | 50  |
| 40                 | Workshop      | 3D Printing                                         | 15.09.16 to 16.09.16     | Mr.YogeshBhole Research Scientist Robo Kart                                                                           | 150 |
| 41                 | Workshop      | PLC & Robotics                                      | 06.10.2016 to 07.10.2016 | Mr.KarthikSoundarrajan, Director,Synetics automation Solution, Coimbatore                                             | 45  |
| 42                 | Workshop      | Machine Drawing                                     | 03.11.2016               | Mr.Sasikumar, Managing Partner, Mars Academy                                                                          | 60  |
| 43                 | Seminar       | Benefits of Autodesk 360                            | 20.07.2016               | Sriram. D Executive Training interCAD systems private Ltd, Coimbatore                                                 | 68  |
| 44                 | Seminar       | DCS with SCADA                                      | 22.07.2016               | Mr.PakkirMohideen Managing Director SOUTHERN AUTOMATION                                                               | 70  |
| 45                 | Seminar       | Research Proposal Writing Execution and Patenting   | 10.08.2016               | Dr.S. Neelamani, Senior Research Scientist, Kuwait University Research & Technology, Kuwait                           | 120 |
| 46                 | Guest Lecture | UES Examinations, Navy & Defence Job Openings       | 14.07.2016               | Dr.G.Manikandan, HoD/AERO, SNSCT                                                                                      | 61  |
| 47                 | Guest Lecture | Overview of Industrial and levels                   | 25.07.2016               | R.Aravinda Raj Deputy Manager-Operation ELGI Equipments                                                               | 150 |
| 48                 | Guest Lecture | Placement Activities & Resume                       | 26.07.2016               | Mr.Nagarajan, Placement Officer, SNSCT                                                                                | 61  |

|    |               |                                                                    |            |                                                                                   |    |
|----|---------------|--------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|----|
|    |               | Preparation                                                        |            |                                                                                   |    |
| 49 | Guest Lecture | Higher studies on abroad and Competitive Exams Preparation         | 28.07.2016 | Suresh Kannan<br>Vice President<br>Solistech Solutions Pvt Ltd,<br>Coimbatore     | 70 |
| 50 | Guest Lecture | Basics about PLC,SCADA, VFD and HMI                                | 09.08.2016 | Mr.Sathosh Kumar,<br>Managing Partner,<br>Scanner Control Systems,<br>Coimbatore. | 60 |
| 51 | Guest Lecture | A Positive Thinking towards Start-Ups and Entrepreneurial Thinking | 11.08.2016 | Dr.M.G.Saravanaraj,<br>Director-MBA,<br>SNSCT                                     | 61 |
| 52 | Guest Lecture | Tricky in C Programming                                            | 19.08.2016 | Prof.S. Sundararajan<br>ASP/Head- Dept of MCA,<br>SNSCT                           | 61 |
| 53 | Guest Lecture | How to prepare for Tech Mahindra Placement Drive                   | 11.08.2016 | Mr.P.Thinakaran,<br>Placement Officer,<br>SNSCT                                   | 41 |
| 54 | Guest Lecture | Design of Welded Joints                                            | 29.08.2016 | Dr.Yuvaraja,<br>ASP/Mech,<br>Bannari Amman Institute of Tech                      | 70 |
| 55 | Guest Lecture | Plastics & its Manufacturing method                                | 05.10.16   | Dr.G.Senthilkumar<br>ASP(Sr.G)/Mech<br>BIT, Sathy                                 | 60 |
| 56 | Guest Lecture | Strength of Material                                               | 06.10.16   | Dr.SureshKanna<br>ASP/Mech<br>CIT, Coimbatore                                     | 60 |
| 57 | Guest Lecture | Design of Spring & Welded joints                                   | 06.10.16   | Dr.SureshKanna<br>ASP/Mech<br>CIT, Coimbatore                                     | 70 |
| 58 | Guest Lecture | Basics of Converter, Inverter, Chopper, Cyclo-converter            | 14.10.16   | N.Srinivasan<br>ASP/EEE<br>BIT, Sathy                                             | 70 |
| 59 | Guest Lecture | An overview in Engineering Thermodynamics                          | 18.10.16   | Dr.P.Karthikeyan<br>ASP(Sr.G)/Mech<br>PSG Tech                                    | 70 |
| 60 | Guest Lecture | Rapid Proto typing                                                 | 18.10.16   | Dr.E.Prakash,<br>AP(Sr.G)/Mech<br>PSG Tech                                        | 65 |



|    |               |                                    |          |                                       |    |
|----|---------------|------------------------------------|----------|---------------------------------------|----|
| 61 | Guest Lecture | Nano Electronics & its Application | 18.10.16 | Dr.Sanjay Deb,<br>AP(Sr.G)/ECE<br>BIT | 60 |
|----|---------------|------------------------------------|----------|---------------------------------------|----|

**33. List the teaching methods adopted by the faculty for different programmes.**

- Special Coaching for Slow & Advanced Learners
- Tutorial classes for Slow & Advanced Learners
- Technical Quiz
- Puzzles
- Case Studies on Management Papers
- Demonstration of models
- Industrial Visits
- Subject bound Internships/In-Plant Training
- Subject bound Guest Lectures
- Hands-On Training & Workshops

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The department ensures that the programme objectives are met by means of Continuous Assessments like Internal Examinations, Semester Examinations, Quiz, Crossword Puzzles, Assignments, Seminars on a given topics, Students Feedback, Slow Learners Coaching classes, Quality Circle Meetings, Class Committee Meetings, Students Performance Indicators, etc.,

**35. Highlight the participation of students and faculty in extension activities.**

**RRC & MECHATRONICS ENGINEERING DEPARTMENT COMBINED EXTENSION ACTIVITIES**

| Year    | Name of the event                  | Venue                       | Beneficiaries |          | Collaborating Body (If any)             | Outcome              |
|---------|------------------------------------|-----------------------------|---------------|----------|-----------------------------------------|----------------------|
|         |                                    |                             | Internal      | External |                                         |                      |
| 2012-13 | Blood Donation Camp                | SNSCT                       | -             | 110      | Government Hospital, Mettupalayam       | Social Awareness     |
| 2013-14 | Fire Safety                        | SNSCT                       | 115           |          | 3S Fire safety and services, Coimbatore | Social Awareness     |
| 2014-15 | -                                  | -                           | -             | -        | -                                       | -                    |
| 2015-16 | -                                  | -                           | -             | -        | -                                       | -                    |
| 2016-17 | Eye Camp                           | SNSCT                       | 200           |          | Lenzo Vision                            | Helping needy people |
|         | Awareness Program on "Cyber Crime" | Saravanampatty (Check post) |               | Public   | Dr.Rajan, Cyber crime Dept. Coimbatore  | Social Awareness     |
|         | Eye &                              | SNSCT                       | 350           |          | VASAN Eye                               | Helping needy        |

|  |                                           |                            |     |        |                                            |                                         |
|--|-------------------------------------------|----------------------------|-----|--------|--------------------------------------------|-----------------------------------------|
|  | Dental Camp                               |                            |     |        | Care                                       | people & Social awareness               |
|  | Awareness program on “Fire & Safety”      | SNSCT                      | 125 |        | Surya Fire & Safety Systems                | Social Awareness                        |
|  | Organ Donation Camp                       | SNSCT                      |     | 380    | Sri Ramakrishna Mission Hospital           | Helping needy people                    |
|  | Tree Planting                             | Vaiyapurinagar, Opp. SNSCT |     | Public | Mahindra Finance                           | Sustaining the environment              |
|  | Eye, Dental, Blood Sugar & Blood Pressure | Vazhiyampalayam Village    | 150 | Public | Vasan Eye & Dental Care & Thulasi Pharmacy | Helping needy people & Social awareness |

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- Theme bound Activities
- Value added courses
- One credit Courses
- Providing Internship to the Students
- Paper Presentation
- Consultancy Works
- Research Proposals
- Extension Activities
- Delivering Guest Lectures to other colleges
- Organizing Conferences/Workshops/Guest Lectures
- Participating in National level Conferences

**37. State whether the programme / department is accredited/ graded by other agencies. Give details.**

Preparedness is underway for NBA & NAAC Accreditations

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

|                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;"><b>STRENGTHS</b></p> <ul style="list-style-type: none"> <li>❖ State of Art of Infrastructure</li> <li>❖ Technically Strong &amp; dedicated young Faculty members</li> <li>❖ Multi-disciplinary Nature</li> <li>❖ Highly Competitive students</li> <li>❖ Robotics club activities</li> </ul>    | <p style="text-align: center;"><b>WEAKNESSES</b></p> <ul style="list-style-type: none"> <li>❖ Lack of senior faculty members</li> <li>❖ Lack of Consultancy works</li> <li>❖ Lack of Patents</li> <li>❖ Lack of Sponsored Research project</li> <li>❖ Lack of Funded Projects</li> </ul>                                                                                     |
| <p style="text-align: center;"><b>OPPORTUNITIES</b></p> <ul style="list-style-type: none"> <li>❖ Location Advantage</li> <li>❖ Core Industry Placements Opportunities</li> <li>❖ Industrial Projects with high profile core companies</li> <li>❖ Activities through Robotics Club</li> <li>❖ Strong Alumni support</li> </ul> | <p style="text-align: center;"><b>CHALLENGES</b></p> <ul style="list-style-type: none"> <li>❖ Low cut off students admission in the academic year 2016-17</li> <li>❖ Faculty Retention</li> <li>❖ Bringing Mechatronics based companies for ON-Campus Placement drive</li> <li>❖ Collaboration with foreign universities</li> <li>❖ Creating Centre of Excellence</li> </ul> |

**39. Future plans of the department.**

- To Create Centre of Excellence in Robotics
- To Apply for PG Course in Robotics & Automation
- To Conduct International Conferences on Latest trends in Mechatronics
- To Establish new Laboratories based on the latest technological developments in Mechatronics

## Evaluative Report of the Departments

**1. Name of the Department & its year of establishment :**

**Name** : Department of MBA

**Year of Establishment**: 2005

**2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : Master of Business Administration (MBA)**

| Programme level | Programmes offered | Year of Establishment | Initial Intake | Year of Increase in Intake/ Strength |
|-----------------|--------------------|-----------------------|----------------|--------------------------------------|
| PG Programme    | MBA                | 2005                  | 60             | 2013 / 60 to 120                     |

**3. Interdisciplinary courses and departments involved :**

| Sl. No. | Courses                                         | Semester | Department           |
|---------|-------------------------------------------------|----------|----------------------|
| 1       | Quantitative Methods for Business               | I        | Science & Humanities |
| 2       | Executive Communication                         |          |                      |
| 3       | Enterprise Resource Planning                    | III      | CSE                  |
| 4       | Information Technology Management               |          |                      |
| 5       | Electronic Business Management                  |          |                      |
| 6       | HR for Engineers                                | III      | ME - VLSI, SE, Civil |
| 7       | HR for Engineers                                | IV       | MCA                  |
| 8       | Management of Software Projects and Enterprises | IV       | CSE                  |

**4. Annual/ semester/choice based credit system:**

Semester & Choice Based Credit System

| Sl.No. | Academic Year | Years / Semester      | System followed                  |
|--------|---------------|-----------------------|----------------------------------|
| 1      | 2013 – 14     | All years & semesters | Semester System R2013            |
| 2      | 2014 – 15     | All years & semesters | Semester System R2013            |
| 3      | 2015 – 16     | II years              | Semester System R2013            |
|        |               | I years               | Choice Based Credit System R2015 |
| 4      | 2016 - 17     | II years              | Choice Based Credit System R2015 |
|        |               | I years               | Choice Based Credit System R2016 |

**5. Participation of the department in the courses offered by other departments:**

| Sl. No. | Courses              | Semester | Department |
|---------|----------------------|----------|------------|
| 1       | Knowledge Management | III      | CSE        |
| 2       | Digital Marketing    |          | MCA        |

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

|                             | 2012-13 |   | 2013-14 |   | 2014-15 |    | 2015-16 |    | 2016-17 |    |
|-----------------------------|---------|---|---------|---|---------|----|---------|----|---------|----|
|                             | S       | F | S       | F | S       | F  | S       | F  | S       | F  |
| <b>Professors</b>           | 1       | 2 | 2       | 3 | 2       | 3  | 2       | 2  | 2       | 2  |
| <b>Associate Professors</b> | 2       | 2 | 3       | 3 | 1       | 1  | -       | -  | 2       | 2  |
| <b>Assistant Professors</b> | 5       | 5 | 7       | 6 | 14      | 14 | 14      | 14 | 12      | 11 |

**S: Sanctioned, F: Filled.**

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| Name               | Qualification | Designation                 | Specialization              | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|--------------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------------------------------|
| Dr.S.N.Subramanian | PHD           | Professor                   | General Management          | 38                         | -                                                 |
| Mr.Mylsamy         | PGDPM         | Professor                   | Finance                     | 34                         | -                                                 |
| Dr.P.Krishnaveni   | PHD           | HoD and Associate Professor | Finance, Human Resources    | 12                         | -                                                 |
| Dr.S.Viniba        | PHD           | Assistant Professor         | Human Resources, Production | 7                          | -                                                 |
| Mr.K.Mohan Kumar   | MBA           | Assistant Professor         | Marketing, Finance          | 10                         | -                                                 |
| Mr.V.Prabakaran    | MBA           | Assistant Professor         | Finance                     | 9                          | -                                                 |
| Ms.R.Anitha        | MBA           | Associate Professor         | Human Resources, Marketing  | 17                         | -                                                 |
| Mr.S.Senthil Kumar | MBA           | Assistant Professor         | Human Resources, Marketing  | 11                         | -                                                 |
| Mr.S.Nagarajan     | MBA           | Assistant Professor         | Human Resources, Marketing  | 1                          | -                                                 |
| Ms.P.Bharathi      | MBA           | Assistant Professor         | Human Resources, Marketing  | 1                          | -                                                 |

|                  |     |                     |                            |   |   |
|------------------|-----|---------------------|----------------------------|---|---|
| Ms.J.Sowmiya     | MBA | Assistant Professor | Human Resources, Marketing | 1 | - |
| Ms.M.Dhanu Shree | MBA | Assistant Professor | Human Resources, Marketing | 1 | - |
| Ms.J.Sornalatha  | MBA | Assistant Professor | Human Resources, Marketing | 1 | - |
| Ms. Dhanya       | MBA | Assistant Professor | Human Resources, Marketing | 3 | - |
| Ms.J.Nithya      | MBA | Assistant Professor | Human Resources, Marketing | 2 | - |

**8. Percentage of classes taken by temporary faculty – programme-wise information:**

Nil - The department has always been adequately staffed and therefore there is no need for temporary faculty.

**9. Programme-wise Student Teacher Ratio :**

| Year      | Total Students Strength | Faculty | Ratio S/T |
|-----------|-------------------------|---------|-----------|
| 2012 – 13 | 120                     | 9       | 13.33 : 1 |
| 2013 – 14 | 151                     | 12      | 12.58 : 1 |
| 2014 – 15 | 144                     | 18      | 8 : 1     |
| 2015 – 16 | 115                     | 16      | 7.18 : 1  |
| 2016 – 17 | 114                     | 15      | 7.6 : 1   |

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled: Nil**

| Support Staff (technical) and administrative staff | 2012 – 13 |   | 2013 – 14 |   | 2014 – 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 1         | 1 | 1         | 1 | 1         | 1 | -         | - | -         | - |

S: Sanctioned, F: Filled.

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. : Nil**

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received: Nil**

**13. Research facility / centre with**

- state recognition :

| S.No | Description                           | Sanctioned Period | Recognized University    |
|------|---------------------------------------|-------------------|--------------------------|
| 1    | Recongized research centre to do Ph.D | 2009-2014         | Anna University, Chennai |

- national recognition : Nil

- **international recognition** : Nil

#### 14. Publications:

|                                                                                                                                                                                                | 2012 - 13      | 2013 - 14 | 2014 – 15 | 2015 - 16 | 2016 - 17 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|-----------|-----------|-----------|
| <b>Number of papers published in peer reviewed journals (national / international)</b>                                                                                                         | -              | -         | -         | 8         | 19        |
| <b>Monographs</b>                                                                                                                                                                              | -              | -         | -         | -         | -         |
| <b>Chapter(s) in Books</b>                                                                                                                                                                     | -              | -         | -         | -         | -         |
| <b>Editing Books</b>                                                                                                                                                                           | -              | -         | -         | -         | -         |
| <b>Books with ISBN numbers with details of publishers</b>                                                                                                                                      | -              | -         | -         | 2         | -         |
| <b>number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)</b> | -              | -         | -         | -         | -         |
| <b>Citation Index [ Range]</b>                                                                                                                                                                 | -              | -         | -         | -         | -         |
| <b>SNIP</b>                                                                                                                                                                                    | -              | -         | -         | -         | -         |
| <b>SIR</b>                                                                                                                                                                                     | -              | -         | -         | -         | -         |
| <b>Impact Factor [ Range]</b>                                                                                                                                                                  | 0.315 to 6.284 |           |           |           |           |
| <b>h – index [ Range]</b>                                                                                                                                                                      | -              | -         | -         | -         | -         |

#### Details of Book Publication: 2

| S.No | Title of the Book                                                                 | Authors                                | ISBN No.          | Publisher's Name                     | Year of Publication |
|------|-----------------------------------------------------------------------------------|----------------------------------------|-------------------|--------------------------------------|---------------------|
| 1    | Work Stress among Indian Software Professionals – Causes, Effects & Interventions | Dr. S. Viniba & Dr. M. Sugunambal      | 978-3-659-78765-2 | Lambert Academic Publishing, Germany | 2016                |
| 2    | Empirical Evaluation of Foreign Exchange Market Efficiency                        | Dr. P. Krishnaveni & Dr. S. Varadharaj | 978-3-659-85333-3 | Lambert Academic Publishing, Germany | 2015                |

#### 15. Details of patents and income generated: Nil

#### 16. Areas of consultancy and income generated: Nil

**17. Faculty recharging strategies:**

- \* Encouraging faculty members to undertake projects periodically with NGO and Industries
- \* Attending seminars and conferences based on course themes
- \* In-house Faculty Development Programmes/ Seminars/ Expert-talk/ Workshops/ training and Development Activities
- \* Research incentives are provided
- \* Research activity at department level to enrich enhancement in the tavern of knowledge

| Events                                                                                                                           | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|----------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| Workshops/<br>Seminars/Conference/<br>Industry Orientation<br>Programs/<br>Industrial Visits/<br>Faculty Development<br>Programs | 3       | 5       | 11      | 9       | 40      |

**18. Student projects**

- o percentage of students who have done in-house projects including inter-departmental: 100%

| Year      | Student Strength | Percentage of Students Project           |                               |
|-----------|------------------|------------------------------------------|-------------------------------|
|           |                  | In-house projects and inter-departmental | Collaboration with industries |
| 2012 - 13 | 61               | 100                                      | -                             |
| 2013 - 14 | 56               | 100                                      | -                             |
| 2014 - 15 | 90               | 100                                      | -                             |
| 2015 - 16 | 53               | 100                                      | -                             |

**19. Awards / recognitions received at the national and international level by**

- o Faculty : Nil
- o Doctoral / post doctoral fellows:

| Name of the Faculty | Award    | Year |
|---------------------|----------|------|
| Dr. S. Prakash      | Doctoral | 2012 |
| Dr. M. Sethupathi   | Doctoral | 2012 |
| Dr.P. Krishnaveni   | Doctoral | 2014 |
| Dr. S. Viniba       | Doctoral | 2014 |



○ **Students:**

| S.No               | Name of the Students | Prize / University Rank | Event Name           |
|--------------------|----------------------|-------------------------|----------------------|
| <b>2012 – 2013</b> |                      |                         |                      |
| 1                  | Naveena Rani.M       | 22                      | Anna University Rank |
| 2                  | Lini P. Kuriakose    | 38                      | Anna University Rank |
| 3                  | Kalaiselvi. V        | 45                      | Anna University Rank |
| 4                  | Senguttavel.M        | 49                      | Anna University Rank |
| <b>2013- 2014</b>  |                      |                         |                      |
| 5                  | Mohana Dhivya.L      | 47                      | Anna University Rank |
| <b>2014 – 2015</b> |                      |                         |                      |
| 6                  | Udhaya. M            | 49                      | Anna University Rank |

**20. Seminars / Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.:**

| Sl.No.         | Event (GL/Seminar/ Internship/ Placement) | Title                         | Duration | Source of Fund | No. of Beneficiaries |
|----------------|-------------------------------------------|-------------------------------|----------|----------------|----------------------|
| <b>2012-13</b> |                                           |                               |          |                |                      |
| 1              | Workshop                                  | Competency Mapping & Analysis | ½ day    | SNSCT          | 114                  |
| 2              | Workshop                                  | Team Building                 | ½ day    | SNSCT          | 114                  |
| 3              | MDP                                       | HRM Transformation & Trends   | 1 day    | SNSCT          | 114                  |
| 4              | Workshop                                  | Unfolding Leadership          | ½ day    | SNSCT          | 114                  |
| 5              | MDP                                       | Professional Enhancement      | ½ day    | SNSCT          | 114                  |
| <b>2014-15</b> |                                           |                               |          |                |                      |
| 6              | National Conference                       | Emerging Trends in Management | 1 day    | SNSCT          | 208                  |

|                |                                             |                        |       |       |     |
|----------------|---------------------------------------------|------------------------|-------|-------|-----|
| 7              | National Level Management Meet              | Tour De Force 2014     | 1 day | SNSCT | 142 |
| <b>2015-16</b> |                                             |                        |       |       |     |
| 8              | Workshop                                    | Transactional Analysis | 1 day | SNSCT | 62  |
| 9              | Campus to Corporate – Employers Expectation | HR Meet                | 1 day | SNSCT | 115 |
| 10             | National Level HR Summit "HR for HR"        | HR Summit              | 1 day | SNSCT | 210 |

**21. Student profile course-wise:**

| Year      | Name of the Course | Application Received | Selected |        | Pass percentage |        |
|-----------|--------------------|----------------------|----------|--------|-----------------|--------|
|           |                    |                      | Male     | Female | Male            | Female |
| 2011-2013 | MBA                | NA                   | 35       | 26     | 32.35           | 88.89  |
| 2012-2014 | MBA                |                      | 35       | 24     | 63.33           | 92.31  |
| 2013-2015 | MBA                |                      | 68       | 27     | 89.06           | 100    |
| 2014-2016 | MBA                |                      | 37       | 17     | 91.67           | 100    |

**22. Diversity of Students (2014-16):**

| Name of the Course | Batch   | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| MBA                | 2012-14 | -                              | 100                          | -                               | -                                  |
|                    | 2013-15 | -                              | 97.75                        | 2.25                            | -                                  |
|                    | 2014-16 | -                              | 100                          | -                               | -                                  |
|                    | 2015-17 | 1.61%                          | 96.77                        | 3.23                            | -                                  |
|                    | 2016-18 | 1.92%                          | 92.31                        | 7.69                            | -                                  |

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?; Nil**

**24. Student progression:**

| Student Progression                        | Percentage against enrolled |       |        |        |
|--------------------------------------------|-----------------------------|-------|--------|--------|
|                                            | 2013                        | 2014  | 2015   | 2016   |
| <b>Employed</b><br><b>Campus selection</b> | 9.84%                       | 25%   | 54.44% | 77.36% |
| <b>Other than campus recruitment</b>       | 4.92%                       | 1.79% | 37.78% | -      |
| <b>Entrepreneurs</b>                       | -                           | -     | 1.11%  | -      |

**25. Diversity of staff**

| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|-------------------------------------------|---------|---------|---------|---------|---------|
| of the same parent university             | 11.11   | 8.33    | 11.11   | 37.5    | 33.33   |
| from other universities within the State  | 88.89   | 91.67   | 88.89   | 62.5    | 66.67   |
| from other universities from other States | -       | -       | -       | -       | -       |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.:**

| S.No | Year of Award | No. of Ph.D. |
|------|---------------|--------------|
| 1    | 2012          | 2            |
| 2    | 2014          | 2            |

**27. Present details about infrastructural facilities****a) Library**

Total No. of books available in department library is 1298 and it has project reports of all the students.

| S.No | Academic Year | Book Titles (in nos.) | Book Volumes (in nos.) |
|------|---------------|-----------------------|------------------------|
| 1    | 2012 – 13     | 1203                  | 5091                   |
| 2    | 2013 – 14     | 1272                  | 5113                   |
| 3    | 2014 – 15     | 1297                  | 5147                   |
| 4    | 2015 – 16     | 1299                  | 5199                   |
| 5    | 2016 – 17     | 1300                  | 5249                   |

**b) Internet facilities for staff and students :**

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in all labs and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel.

**c) Total number of class rooms: 5**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                                |
|------|----------------|-------------------------------|--------------------|--------------------------------------------------------------|
| 1    | M207           | 153.29                        | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chairs |
| 2    | M208           | 139.35                        | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chairs |
| 3    | M204           | 122.63                        | Exclusive          | White screen, Black board, Tables, Chairs                    |
| 4    | M303           | 122.63                        | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chairs |
| 5    | M101           | 122.63                        | Exclusive          | White screen, Black board, Tables, Chairs                    |

**d) Class rooms with ICT facility:**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                                |
|------|----------------|-------------------------------|--------------------|--------------------------------------------------------------|
| 1    | M207           | 153.29                        | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chairs |
| 2    | M208           | 139.35                        | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chairs |
| 3    | M303           | 122.63                        | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chairs |

**e) Students' laboratories:**

| S.No | Lab No.     | Area in Sq.m | Name of the Lab  |
|------|-------------|--------------|------------------|
| 1    | M202 & M203 | 166.5        | MBA Computer Lab |

**f) Research laboratories:**

| S.No | Year of Establishment | Name of the Lab | Description of the Equipments |
|------|-----------------------|-----------------|-------------------------------|
| -    | -                     | -               | -                             |

**28. Number of students of the department getting financial assistance from College.:**

Total Number of Students : 13

Total Amount : Rs. 1,14,235 /-

| Academic Year | Government        |        | Management        |        |
|---------------|-------------------|--------|-------------------|--------|
|               | Student benefited | Amount | Student benefited | Amount |
| 2012 - 13     | 4                 | 30200  | -                 | -      |
| 2013 – 14     | 7                 | 47400  | -                 | -      |
| 2014 – 15     | -                 | -      | -                 | -      |
| 2015 – 16     | 2                 | 36635  | -                 | -      |
| 2016 - 17     | -                 | -      | -                 | -      |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. :**

- In order to understand the dynamic changes and recent trends, meetings were conducted with Board of Study Members comprising of academic & industry experts and faculty. As a result of the discussions, the curriculum of Autonomous Batch was finalized after analyzing various universities syllabi with the help of panel of subject experts.

**30. Does the department obtain feedback from****a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes.

Based on the feedback from the faculty members and other experts, curriculum is enhanced periodically. Various innovative approaches have been adopted such as debate, one-minute talk, group discussions, case discussions and seminars.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Yes.

Appropriate measures are taken in response to the student feedback. Measures have been taken to improve student quality and employability through curriculum enhancements. Some of such programs are:

- Spoken english classes for students to improve spoken & written communication
- Aptitude training – training on numerical and logical reasoning ability
- Business Analytics – Ability to analyze and interpret business data for decision making

- c. **Alumni and employers on the programmes and what is the response of the department to the same?**

Yes.

Alumni are a part of the Board of Studies in designing the curriculum. They facilitate the arrangement of resource person for conferences, guest lectures and industry interactions.

**31. List the distinguished alumni of the department (maximum 10)**

| S.No | Name of the Alumni | Batch   | Current Position / Name of the Enterprise |
|------|--------------------|---------|-------------------------------------------|
| 1    | Dhamodharan. R     | 2007-09 | Entrepreneur                              |
| 2    | Saravanan.N        | 2007-09 | HR-L&T                                    |
| 3    | Indumathi.V        | 2007-09 | Eureka Outsourcing Solutions Ltd          |
| 4    | Anjen Fernandu     | 2009-11 | iDeation Solutions                        |
| 5    | Karthik. P         | 2010-12 | Muthoot Fincrop Ltd                       |
| 6    | Surya. V           | 2010-12 | ITC                                       |
| 7    | Stephen Raj.J      | 2011-13 | Axis Bank                                 |
| 8    | Gokulanathan.S     | 2012-14 | Assistant Professor                       |
| 9    | Dharani B          | 2013-15 | Entrepreneur                              |
| 10   | Vinoth Kumar P     | 2013-15 | Entrepreneur                              |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| Sl. No.          | Name of Event                         | Date       | External Experts                                                      | No. of Beneficiary |
|------------------|---------------------------------------|------------|-----------------------------------------------------------------------|--------------------|
| <b>2013-2014</b> |                                       |            |                                                                       |                    |
| 1                | GENEX Association Inauguration        | 30.09.2013 | Mr.K.Raghunandanan Chief General Manager, Larsen & Toubro, Coimbatore | 149                |
| 2                | CEO Speak on Professional Enhancement | 21.10.2013 | Dr.Anand Palanisami Chairman, Anand Palanisami Group, Coimbatore      | 149                |
| 3                | CEO TALK                              | 09.11.2013 | Mr.R.Arun Kumar HR Manager, HCL Technologies, Coimbatore.             | 89                 |
| 4                | HR MEET                               | 16.11.2013 | Shri R.Ananda Kumar Deputy General Manager – Human                    | 89                 |

| Sl. No.          | Name of Event                                               | Date       | External Experts                                                                        | No. of Beneficiary |
|------------------|-------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------|--------------------|
|                  |                                                             |            | Resource, Bharat Heavy Electricals Limited, Tiruchirappalli.                            |                    |
| 5                | CHANAKYA BLOCK Inauguration                                 | 04.01.2014 | Prof.Dr.H.Devaraj Vice Chairman, University Grants Commission, New Delhi                | 149                |
| 6                | HR MEET                                                     | 01.02.2014 | Shri.Mayank Gupta DELL - Human Resource, Coimbatore                                     | 149                |
| 7                | CEO MEET                                                    | 06.02.2014 | Shri.K.T.Srinivasa Raja Managing Director, Adyar Ananda Bhavan Private Limited, Chennai | 149                |
| 8                | HR MEET                                                     | 07.02.2014 | Shri.P.V.Prabhu Chari Head – HR, Cognizant Technologies, Coimbatore.                    | 142                |
| 9                | National Level Conference on “Emerging Trends in Management | 20.03.2014 | Dr.Samuel Joseph Professor, Karunya Business School, Coimbatore.                        | 142                |
| 10               | National Level Conference on “Emerging Trends in Management | 20.03.2014 | Mr.Shrikant G.Kulkarni Chairperson & Professor, Amirta School of Business, Coimbatore   | 142                |
| 11               | National Level Conference on “Emerging Trends in Management | 20.03.2014 | Dr.Vijila Kennedy Director, KCT Business School, Coimbatore.                            | 142                |
| 12               | National Level Conference on “Emerging Trends in Management | 20.03.2014 | Dr.P.R.Muthuswamy Principal, Dr.N.G.P Arts & Science College, Coimbatore.               | 142                |
| 13               | National Level Management Meet “Tour De Force 2014”         | 21.03.2014 | Padma Shri Dr.Nalli Kuppusami Managing Director, Nalli Silks, Chennai.                  | 142                |
| 14               | Legends Speak                                               | 16.04.2014 | Mr.K.Ganesan Senior Vice President, Human Resource, Tata Consultancy Services, Chennai. | 142                |
| <b>2014-2015</b> |                                                             |            |                                                                                         |                    |
| 15               | Inauguration of MBA Association ‘GENEX’                     | 29.09.2014 | Mr. B. Mahesh Kumar Managing Partner, KSV Industries Coimbatore                         | 142                |
| 16               | Guest Lecture on Career opportunities in                    | 10.10.2014 | Mr. V. Devadoss Academic Coordinator, NIIT                                              | 89                 |

| Sl. No.          | Name of Event                                                    | Date       | External Experts                                                                                           | No. of Beneficiary |
|------------------|------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------|--------------------|
|                  | Banking sector                                                   |            |                                                                                                            |                    |
| 17               | Seminar on Opportunities, challenges and growth on Retail sector | 24.10.2014 | Shri. M.K Kumaravelan<br>Corporate Trainee in Adithya Birla centre for Excellence , Chennai                | 142                |
| 18               | Guest Lecture on Investors guide to the capital market.          | 14.11.2014 | Mr. R. SenthilMurugan Assistant Manager - Business Development, National Stock Exchange India Ltd, Chennai | 53                 |
| 19               | Guest Lecture on Financial Education for the young Investor      | 20.11.2014 | Dr. K. Prabhakaran Financial Education Trainer, Securities Exchange board of India, Chennai.               | 53                 |
| 20               | CEO Talk                                                         | 21.11.2014 | Mr. D. Baskar Raj Managing Director, SRS Lungi Company, Erode                                              | 53                 |
| 21               | Guest lecture on “Marketing Strategies in Banking services”      | 27.11.2014 | Mr. K.V Namboodiri Chief Manager- SME Branch, Bank of India, Tirupur                                       | 53                 |
| 22               | Guest Lecture on Marketing Strategies in Insurance services”     | 02.12.2014 | Mr. R. Nithyanandan Divisional Manager, United India Insurance Company, Coimbatore                         | 53                 |
| 23               | CEO TALK                                                         | 11.02.2015 | Ms. Usha Nair Former General Manager, SBI.                                                                 | 53                 |
| 24               | Guest Lecture on Career Opportunities in Logistic                | 24.02.2015 | Capt. S. Baskaran Campus Training Manager, Maritime Institute for logistics                                | 53                 |
| 25               | CEO TALK                                                         | 02.03.2015 | Mr. Ganesh Iyer Country Head of The Chartered Institute for Securities and Investment.                     | 53                 |
| 26               | Workshop                                                         | 07.03.2015 | Mr. Tharani Prakash Deputy Manager, Axis bank, Pondichery                                                  | 53                 |
| 27               | Workshop                                                         | 11.03.2015 | Mr. S. Ganesh Trainee, Learnbiz Simulations, Chennai                                                       | 53                 |
| 28               | One day National Level Conference                                | 16.03.2015 | Rajeev Johari President, Blue Marine Corp, Tiruppur                                                        | 142                |
| <b>2015-2016</b> |                                                                  |            |                                                                                                            |                    |
| 29               | Executive Interaction Program                                    | 19.08.2015 | Capt. V.J. Pushpakumar Director, Good Ocean Maritime Institute of Logistics                                | 115                |



| Sl. No. | Name of Event                                 | Date       | External Experts                                                                                               | No. of Beneficiary |
|---------|-----------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------|--------------------|
| 30      | Executive Interaction Program                 | 27.08.2015 | Mr. Mahesh Balakrishnan<br>General Manager, Electro Mec Machinery Manufacture (P) Ltd                          | 115                |
| 31      | GENEX Inaugural                               | 31.08.2015 | Dr.Aranga Gopal Director,<br>SHIBI IAS Academy                                                                 | 115                |
| 32      | Executive Interaction Program                 | 01.09.2015 | Mr.M.Ganeshamoorthy Business Head, Itrade Capital Market Pvt Ltd                                               | 115                |
| 33      | Executive Interaction Program                 | 03.09.2015 | Mr.Vignesh Anand Launcher,<br>UBER                                                                             | 115                |
| 34      | CEO Talk                                      | 08.09.2015 | Mr.D.Selvakumar Managing Partner, Om Namu Tex                                                                  | 115                |
| 35      | Executive Interaction Program                 | 11.09.2015 | Mr.Ganesh Iyer Country Head,<br>CISI                                                                           | 115                |
| 36      | Workshop                                      | 19.09.2015 | Mr.T.Rosario Branch Manager,<br>Edelweiss Financial Services,<br>Chennai                                       | 115                |
| 37      | Executive Interaction Program                 | 19.09.2015 | Mr.S.Nirmal Sanjeevan Founder & Director , Dainey Education                                                    | 115                |
| 38      | Workshop                                      | 09.10.2015 | Mr.Krishnaswamy Ravi CFO,<br>Roots Industried India Limited                                                    | 115                |
| 39      | Workshop                                      | 16.10.2015 | Mr.R.Kannan GM - HR,<br>Redington India Ltd                                                                    | 62                 |
| 40      | Workshop                                      | 17.10.2015 | Mr.D.Aravind Manager - HR,<br>KG Information System Pvt Ltd                                                    | 62                 |
| 41      | Executive Interaction Program                 | 17.10.2015 | Mr.N.Senthil Kumar Director,<br>Multivision Inc                                                                | 115                |
| 42      | Workshop                                      | 19.10.2015 | Mr.R.Anand AGM, SEBI                                                                                           | 115                |
| 43      | Workshop                                      | 19.10.2015 | Mr.S.Periyasamy Manager, BSE                                                                                   | 115                |
| 44      | Workshop                                      | 21.01.2016 | Mrs. Sasi Prabha Director, SIRPI Training Institute                                                            | 62                 |
| 45      | Guest Lecture                                 | 19.01.2016 | Prof. S.S.G.K. Murali<br>Academecian                                                                           | 52                 |
| 46      | Guest Lecture                                 | 19.01.2016 | Mr. Prashanth Ramani ICICI Direct, Chennai                                                                     | 52                 |
| 47      | Workshop                                      | 21.01.2016 | Mrs. Sasi Prabha, Director,<br>SIRPI Training Institute                                                        | 62                 |
| 48      | National Level HR Summit "HR for HR", 2015-16 | 16.03.2016 | Shri M.P. Saravanan, GM - HR,<br>TI Cycles, Chennai,<br>Shri. Lalith Sajan, Manager - HR, exterro R&D Pvt Ltd, | 114                |

| Sl. No. | Name of Event | Date | External Experts                                                                                                                               | No. of Beneficiary |
|---------|---------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|         |               |      | Coimbatore<br>Shri V.P. Ponnusamy, Head - HR, Reckitt Benckiser India Ltd, Chennai<br>Shri. T. Arumugam, GM - HR, Kone Elevator (India) Pvt Lt |                    |

**33. List the teaching methods adopted by the faculty for different programmes.**

- Multiple teaching methods like Lecture method, Interactive Learning, Case Study Method, Use of ICT Tools, Seminar, Workshops and Language Lab Sessions are followed to enhance the quality quotient of the student
- Out-bound training – to enhance team building skills
- Just minute talk and Seminars to enhance public speaking
- Role plays and Group tasks to improve interpersonal skills
- Social research and case analysis, business surveys, live projects

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

- IQAC monitors teaching learning schedule and co-curricular activities through quality circle of the department
- Systematic monitoring of learning activities through written and oral tests
- Periodic guest lectures / workshops and seminars conducted to enrich knowledge and skill and the acquired skill is evaluated
- Course wise student seminars and case presentations are assessed and evaluated
- Field visits are conducted weekly and feedback from the NGO are obtained and evaluated

**35. Highlight the participation of students and faculty in extension activities.**

- Imparting knowledge on Green Environment through Sapling plantations
- Organising free medical camps at neighbouring villages
- Creating awareness among public on the importance of voting through awareness camps

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- Personality development workshops
- Enhancing knowledge in functional domain through activity based learning classes
- Career Workshop

- Current business awareness sessions
- Business Data Analysis course
- Aptitude training sessions and employability enhancement programme such as group discussion, presentations, resume preparation classes
- TEXPERIA – Management Meet
- Encourage research practices among the students through the paper presentation in conferences and publication of research articles as part of curriculum
- FOLETTTO – Biannual newsletters published by the Department of MBA

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details. :**

- Ranked as 4<sup>th</sup> Best B-School in Coimbatore by Business Today Survey, 2015
- Higher Education Review has rated 30<sup>th</sup> among Top 100 Business Schools in India in 2015

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

|                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;"><b>STRENGTHS</b></p> <p>Majority faculties are qualified and experienced.<br/>Consistently good feedback of all teachers is an indicator of the excellent teacher quality.<br/>Good performance of students in University examinations.<br/>Excellent Infrastructure<br/>Frequent interactive sessions with leading industry executives from different verticals</p> | <p style="text-align: center;"><b>WEAKNESSES</b></p> <p>Less academic provisions to make more real world training programmes for students<br/>Inability to expose more students for outreach activities due to time constraint<br/>Lack of more research publications from students<br/>Real life projects and industry sponsored projects are relatively less in number</p> |
| <p style="text-align: center;"><b>OPPORTUNITIES</b></p> <p>Tie up with Industry for part time work experience managing academic input<br/>Multidisciplinary courses, better integration with other departments<br/>Professional development of faculties.<br/>Use of e-learning and adoption of new technology.</p>                                                                                 | <p style="text-align: center;"><b>CHALLENGES</b></p> <p>Mushrooming of MBA institutions and proposed foreign university entries in India<br/>Enhancing the base level salaries at placements and job offerings at foreign locations<br/>Increased pre-employment training requirements in the on campus mode by leading MNCs.</p>                                            |

**39. Future plans of the department.**

- Developing acumen for research activities amongst faculty members and students
- Undertake major and minor research projects funded by UGC, ICSSR, AICTE and other agencies
- Emphasize on industrial collaboration
- To motivate faculty members to acquire Ph.D. degree

## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

Name of the Department : MCA

Year of Establishment : 2005

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| Programme level | Programmes offered | Year of Establishment | Initial Intake |
|-----------------|--------------------|-----------------------|----------------|
| PG Programme    | MCA                | 2005                  | 60             |

### 3. Interdisciplinary courses and departments involved

| S.No | Interdisciplinary Courses                | Semester | Department    |
|------|------------------------------------------|----------|---------------|
| 1    | Digital Marketing and SEO                | I        | Open Elective |
| 2    | Linux Administration (System & Networks) |          | Open Elective |
| 3    | Business Intelligence for Managers       |          | Open Elective |

### 4. Annual/ semester/choice based credit system

| S.No | Academic Year | Years / Semester   | System followed                  |
|------|---------------|--------------------|----------------------------------|
| 1    | 2013 – 14     | III year & II year | Semester System R2009            |
|      |               | I year             | Semester System R2013            |
| 2    | 2014 – 15     | III year           | Semester System R2009            |
|      |               | II year            | Semester System R2013            |
|      |               | I Year             | Semester System R2015            |
| 3    | 2015 – 16     | III year           | Semester System R2013            |
|      |               | II year            | Semester System R2015            |
|      |               | I year             | Choice Based Credit System R2015 |
| 4    | 2016 - 17     | III year           | Semester System R2015            |
|      |               | II year            | Choice Based Credit System R2015 |
|      |               | I year             | Choice Based Credit System R2016 |

**5. Participation of the department in the courses offered by other departments**

| S.No | Courses offered  | Departments involved |
|------|------------------|----------------------|
| 1    | HR for Engineers | MBA                  |

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

|                             | 2014 – 15 |   |    |   | 2015 - 16 |   |    |    | 2016 - 17 |   |    |    |
|-----------------------------|-----------|---|----|---|-----------|---|----|----|-----------|---|----|----|
|                             | UG        |   | PG |   | UG        |   | PG |    | UG        |   | PG |    |
|                             | S         | F | S  | F | S         | F | S  | F  | S         | F | S  | F  |
| <b>Professors</b>           | -         | - | 1  | - | -         | - | 1  | -  | -         | - | 1  | -  |
| <b>Associate Professors</b> | -         | - | 3  | 3 | -         | - | 3  | 1  | -         | - | 3  | 1  |
| <b>Assistant Professors</b> | -         | - | 8  | 9 | -         | - | 8  | 11 | -         | - | 8  | 11 |

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

| S. No | Name                     | Qualification               | Designation                  | Specialization    | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|-------|--------------------------|-----------------------------|------------------------------|-------------------|----------------------------|---------------------------------------------------|
| 1     | Prof. S.Sundararajan     | M.C.A, M.Phil, (Ph.D)       | Associate Professor and Head | Data mining       | 16                         | -                                                 |
| 2     | Prof. R.Sivakumar        | M.C.A, M.Phil., (Ph.D)      | Asst. Professor (SG)         | Network Security  | 15                         | -                                                 |
| 3     | Prof. D.Hemalatha        | M.C.A.                      | Asst. Professor              | Data mining       | 12.5                       | -                                                 |
| 4     | Dr. P.Thinakaran         | M.C.A, M.Phil., M.E., Ph.D. | Asst. Professor              | Cloud Computing   | 9.5                        | -                                                 |
| 5     | Prof.M.Priyadharshini    | M.C.A.                      | Asst. Professor              | Computer Networks | 6                          | -                                                 |
| 6     | Prof. B.Bharathi         | M.C.A., M.E                 | Asst. Professor              | Computer Networks | 6.5                        | -                                                 |
| 7     | Prof.T.Boopathy Ramkumar | M.C.A, (M.E.)               | Asst. Professor              |                   | 5.5                        | -                                                 |
| 8     | Prof. S.Kalaiselvi       | M.C.A                       | Asst. Professor              |                   | 0.5                        | -                                                 |
| 9     | Prof. R.Sangeetha        | M.C.A                       | Asst. Professor              |                   | 1.5                        | -                                                 |

| S. No | Name              | Qualification | Designation     | Specialization | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|-------|-------------------|---------------|-----------------|----------------|----------------------------|---------------------------------------------------|
| 10    | Prof. A.Dharani   | M.C.A         | Asst. Professor |                |                            |                                                   |
| 11    | Prof.K.R.Aiswarya | M.C.A         | Asst. Professor | Soft computing | 0.25                       | -                                                 |
| 12    | Prof.S. Haripriya | M.C.A         | Asst. Professor |                | 0.25                       | -                                                 |

**8. Percentage of classes taken by temporary faculty – programme-wise information**

NIL – The department has always been adequately staffed and therefore there is no need for temporary faculty.

**9. Programme-wise Student Teacher Ratio**

| Year      | Programme | Total Students Strength | Faculty | Ratio S/T |
|-----------|-----------|-------------------------|---------|-----------|
| 2012 – 13 | UG        | -                       | -       | -         |
|           | PG        | 146                     | 12      | 12 : 1    |
| 2013 – 14 | UG        | -                       | -       | -         |
|           | PG        | 125                     | 12      | 10.4 : 1  |
| 2014 – 15 | UG        | -                       | -       | -         |
|           | PG        | 107                     | 12      | 8.9 : 1   |
| 2015 - 16 | UG        | -                       | -       | -         |
|           | PG        | 55                      | 12      | 4.6 : 1   |
| 2016 - 17 | UG        | -                       | -       | -         |
|           | PG        | 52                      | 12      | 4.3 : 1   |

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

| Support Staff (technical) and administrative staff | 2012 - 13 |   | 2013 – 14 |   | 2014 – 15 |   | 2015 - 16 |   | 2016 - 17 |   |
|----------------------------------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                                                    | S         | F | S         | F | S         | F | S         | F | S         | F |
|                                                    | 1         | 1 | 1         | 1 | 1         | 1 | 1         | 1 | 1         | 1 |

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. NIL**

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

NIL

**13. Research facility / centre with**

- **state recognition** – Nil
- **national recognition** - Nil
- **international recognition** –Nil

**14. Publications:**

|                                                                                                                                                                                                | 2012 -<br>13 | 2013<br>- 14 | 2014 -<br>15                    | 2015 -<br>16 | 2016 -<br>17 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|---------------------------------|--------------|--------------|
| <b>Number of papers published in peer reviewed journals (national / international)</b>                                                                                                         | 6            | 3            | 7                               | 3            | 2            |
| <b>Monographs</b>                                                                                                                                                                              | -            | -            | -                               | -            | -            |
| <b>Chapter(s) in Books</b>                                                                                                                                                                     | -            | -            | -                               | -            | -            |
| <b>Editing Books</b>                                                                                                                                                                           | -            | -            | -                               | -            | -            |
| <b>Books with ISBN numbers with details of publishers</b>                                                                                                                                      | -            | -            | -                               | -            | -            |
| <b>number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)</b> | -            | -            | 3-Scopus<br>6-Google<br>Scholar | 2-<br>Scopus | 1-<br>Scopus |
| <b>Citation Index [ Range]</b>                                                                                                                                                                 | 1            |              |                                 |              |              |
| <b>SNIP</b>                                                                                                                                                                                    | -            | -            | -                               | -            | -            |
| <b>SIR</b>                                                                                                                                                                                     | -            | -            | -                               | -            | -            |
| <b>Impact Factor [ Range]</b>                                                                                                                                                                  |              |              |                                 |              |              |
| <b>h – index [ Range]</b>                                                                                                                                                                      | -            | -            | -                               | -            | -            |

**15. Details of patents and income generated**

NIL

**16. Areas of consultancy and income generated**

NIL

### 17. Faculty recharging strategies

- Faculty is encouraged to participate in faculty development programme, seminar and workshop on subject oriented or on latest technologies to enrich their knowledge
- Faculty is motivated to publish papers in the reputed journals, present papers in National / International Conferences, to involve in consultancy works
- Certificate of Appreciation for achieving 100 % results in University and End Semester Examinations
- Incentives for paper publications in the reputed National / International Journals
- Faculty is motivated to attend research oriented workshops like funding proposal preparation, filing of patents and copyright registrations.
- Faculty members are motivated to attend various events. The details of event participation during last 5 years are mentioned below.

| S.No | Events                                                                                                                         | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|------|--------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
| 1    | Workshops / Seminars<br>/Conference / Industry<br>Orientation Programs<br>/Industrial Visits / Faculty<br>Development Programs | 46      | 37      | 28      | 41      | 42      |

### 18. Student projects

- percentage of students who have done in-house projects including inter-departmental and collaboration with industries / institutes

| Year      | Student Strength | In-house projects and inter-departmental | Collaboration with industries |
|-----------|------------------|------------------------------------------|-------------------------------|
| 2012 - 13 | 55               | -                                        | 100                           |
| 2013 – 14 | 52               | -                                        | 97                            |
| 2014 – 15 | 65               | -                                        | 100                           |
| 2015 - 16 | 37               | -                                        | 100                           |
| 2016 - 17 | 26               | -                                        |                               |

### 19. Awards / recognitions received at the national and international level by

- Faculty - NIL
- Doctoral / post doctoral fellows



○ **Students**

| S.No               | Name of the Students        | Prize / University Rank | Event Name                                                          |
|--------------------|-----------------------------|-------------------------|---------------------------------------------------------------------|
| <b>2012 - 2013</b> |                             |                         |                                                                     |
| 1                  | Deepa.M                     | 11                      | Anna University Rank                                                |
| 2                  | Vishalachi.B                | 17                      | Anna University Rank                                                |
| 3                  | Bharathi.D                  | 17                      | Anna University Rank                                                |
| 4                  | Gowsika.Y                   | 20                      | Anna University Rank                                                |
| 5                  | Jayalakshmi.S               | 21                      | Anna University Rank                                                |
| 6                  | Karthipriya.S               | 25                      | Anna University Rank                                                |
| 7                  | Gunasundari.S               | 37                      | Anna University Rank                                                |
| 8                  | Srivanitha.M                | 37                      | Anna University Rank                                                |
| 9                  | Abinaya.A                   | 40                      | Anna University Rank                                                |
| 10                 | Kalaiselvi.K                | 40                      | Anna University Rank                                                |
| 11                 | Mohanapriya.K               | 41                      | Anna University Rank                                                |
| 12                 | Packialakshmi.P             | 43                      | Anna University Rank                                                |
| 13                 | Nandhini.K                  | 48                      | Anna University Rank                                                |
| 14                 | Vanadana D                  | I                       | Paper presentation at Sri Venkateswara College of Comp.Applications |
| 15                 | Indeerjeet Kour Jhan        | I                       | Placement Guru at Sri Venkateswara College of Comp.Applications     |
| 16                 | Prasad V                    | II                      | Multimedia @ PPG Institute of Technology                            |
| 17                 | Tharanraj P K               |                         |                                                                     |
| 18                 | Muruganandam S              | I                       | Tamil speech @ Bannari Amman Institute of Technology                |
| 19                 | Muruganandam S              | I                       | Tamil debate @ Bannari Amman Institute of Technology                |
| 20                 | Dinesh P M, Anwar Sadique A | I                       | Surprise Event @ Sengunthar Engineering College                     |
| <b>2013- 2014</b>  |                             |                         |                                                                     |
| 1                  | S.Prabhu                    | I                       | Jockey stop at Kumaraguru college of Technology                     |
| 2                  | Muruganandam S              | I                       | Tamil debate @ Govt. Arts and science College(15.07.13)             |

| S.No               | Name of the Students              | Prize / University Rank | Event Name                                                          |
|--------------------|-----------------------------------|-------------------------|---------------------------------------------------------------------|
| 3                  | Muruganandam S                    | I                       | Tamil debate @ Govt. Arts and science College (31.08.13)            |
| 4                  | Muruganandam S                    | I                       | Tamil debate @ Rotary Coimbatore central                            |
| 5                  | Muruganandam S                    | II                      | Tamil debate @ Sri Ramkrishna Mission Vidyalaya Colege              |
| 6                  | Vignesh S, Vignesh kumar R        | I                       | Paper Presentation at SNS College of Engineering                    |
| 7                  | Sathya and Parvarthavar-dhini S   | II                      | Paper Presentation at SNS College of Engineering                    |
| 8                  | Sathish kumar S and Rajamanickam  | II                      | Web Design at SNS College of Engineering                            |
| <b>2014 - 2015</b> |                                   |                         |                                                                     |
| 1                  | Iswarya B                         | 35                      | Anna University Rank                                                |
| 2                  | Suruli Rajan                      | II                      | Photography at KGISL Institute of Technology                        |
| 3                  | Ramya Mary and Ryon simon         | II                      | Paper Presentation at SNS College of Engineering                    |
| 4                  | Suruli Rajan and Dineshkumar      | II                      | Short film at KGISL Institute of technology                         |
| 5                  | Ramya Mary and Ryon simon         | I                       | Paper presentation at Sri Venkateswara College of Comp.Applications |
| <b>2015 - 2016</b> |                                   |                         |                                                                     |
| 1                  | Rajesh saketheeswaran T, Dinesh B | II                      | Hackyan at SNS College of Engineering                               |
| 2                  | Dinesh B, Hariprabhu.A            | II                      | Quiz at SNS College of Engineering                                  |
| 3                  | S.Sethupathi and N.Senpagapandian | II                      | Brain strom at Gandhigram Rural Institute, Dindugal                 |
| 4                  | A.Raamkumar                       | II                      | Minute Byte at Gandhigram Rural Institute, Dindugal                 |
| 5                  | S.Sethupathi                      | II                      | Self Exp at Gandhigram Rural Institute, Dindugal                    |
| <b>2016 - 2017</b> |                                   |                         |                                                                     |
| 1                  | Sethupathi S                      | III                     | Gaming at Hindusthan                                                |

| S.No | Name of the Students                          | Prize / University Rank | Event Name                                                  |
|------|-----------------------------------------------|-------------------------|-------------------------------------------------------------|
|      |                                               |                         | College of Arts & Science                                   |
| 2    | V.SriHariKarthik, N.Vinod Kumar, Bimal Tirkey | II                      | TANTRADHANYA at Karpagam College of Engineering, Coimbatore |
| 3    | N.Vinod Kumar, Bimal Tirkey                   | I                       | CATECHIZE at Karpagam College of Engineering, Coimbatore    |
| 4    | Gayathiri R                                   | Winner                  | Table Tennis at Anna University zonal Tournament            |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

| S. NO              | Event ( Seminars/ Conferences/ Workshops) | Title                                            | Duration | Sources of funds | Participants |
|--------------------|-------------------------------------------|--------------------------------------------------|----------|------------------|--------------|
| <b>2012 - 2013</b> |                                           |                                                  |          |                  |              |
| 1                  | National Conference                       | Advances in Computing, Analysis and Applications | 1 day    | SNSCT            | 32           |
| <b>2013-2014</b>   |                                           |                                                  |          |                  |              |
| 1                  | National Conference                       | Advances in Computing, Analysis and Applications | 1 day    | SNSCT            | 24           |
| <b>2014 - 2015</b> |                                           |                                                  |          |                  |              |
| 1                  | International Conference                  | Soft Computing and Network security              | 3 days   | SNSCT            | 164          |
| <b>2015 - 2016</b> |                                           |                                                  |          |                  |              |
|                    |                                           | NIL                                              |          |                  |              |
| <b>2016 - 2017</b> |                                           |                                                  |          |                  |              |
|                    |                                           | NIL                                              |          |                  |              |

**21. Student profile course-wise:**

| Year      | Name of the Course | Application Received | Selected |        | Pass percentage |        |
|-----------|--------------------|----------------------|----------|--------|-----------------|--------|
|           |                    |                      | Male     | Female | Male            | Female |
| PG        |                    |                      |          |        |                 |        |
| 2010-2013 | MCA                | NA                   | 31       | 25     | 97 %            | 100 %  |
| 2011-2014 | MCA                |                      | 36       | 18     | 97 %            | 100 %  |
| 2012-2015 | MCA                |                      | 40       | 26     | 95 %            | 100 %  |
| 2013-2016 | MCA                |                      | 24       | 15     | 71 %            | 100 %  |

## 22. Diversity of Students

| Name of the Course | Batch   | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|--------------------|---------|--------------------------------|------------------------------|---------------------------------|------------------------------------|
| MCA                | 2012-15 | -                              | 100 %                        | -                               | -                                  |
|                    | 2013-16 | -                              | 100 %                        | -                               | -                                  |
|                    | 2014-17 | -                              | 97 %                         | 3 %                             | -                                  |
|                    | 2015-18 | -                              | 89 %                         | 11 %                            | -                                  |

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

NIL

## 24. Student progression

| Student Progression             | Percentage against enrolled |       |       |       |
|---------------------------------|-----------------------------|-------|-------|-------|
|                                 | 2013                        | 2014  | 2015  | 2016  |
| UG to PG                        | NA                          | NA    | NA    | NA    |
| PG to M.Phil.                   | -                           | -     | -     | -     |
| PG to Ph.D.                     | -                           | -     | -     | -     |
| Ph.D. to Post-Doctoral          | NA                          | NA    | NA    | NA    |
| Employed                        | 32.14                       | 25.92 | 24.24 | 33.33 |
| • Campus selection              |                             |       |       |       |
| • Other than campus recruitment | 7.14                        | 12.96 | 12.12 | 20.51 |
| Entrepreneurs                   | 1.78                        | -     | -     | -     |

## 25. Diversity of staff

| PG                                        |         |         |         |         |         |
|-------------------------------------------|---------|---------|---------|---------|---------|
| Percentage of faculty who are graduates   | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| of the same parent university             | -       | -       | -       | 25      | 25      |
| from other universities within the State  | 100     | 100     | 100     | 75      | 75      |
| from other universities from other States | -       | -       | -       | -       | -       |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

NIL

**27. Present details about infrastructural facilities**

**a) Library**

Total No. of books available in department library is 250 and it has project reports of all the students.

| S.No | Academic Year | Book Titles (in nos.) | Book Volumes (in nos.) |
|------|---------------|-----------------------|------------------------|
| 1    | 2012 – 13     | 238                   | 250                    |
| 2    | 2013 – 14     | 238                   | 250                    |
| 3    | 2014 – 15     | 238                   | 250                    |
| 4    | 2015 – 16     | 238                   | 250                    |
| 5    | 2016 - 17     | 238                   | 250                    |

**b) Internet facilities for staff and students**

Internet facilities are provided to Students and Staff members at the speed of 100 Mbps in all labs and faculty rooms. Wi-Fi connectivity is also provided in the college and hostel.

**c) Total number of class rooms : 3**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|------|----------------|-------------------------------|--------------------|-------------------------------------------------------------|
| 1    | M306           | 83.7 / 135                    | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 2    | M307           | 135                           | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |

**d) Class rooms with ICT facility: 3**

| S.No | Class Room No. | Description of Room (in Sq.m) | Shared / Exclusive | Details of Facility Available                               |
|------|----------------|-------------------------------|--------------------|-------------------------------------------------------------|
| 1    | M306           | 83.7                          | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |
| 2    | M307           | 83.7                          | Exclusive          | LCD Projector, PC, White screen, Black board, Tables, Chair |

**e) Students' laboratories :**

| S.No | Lab No. | Area in Sq.m | Name of the Lab     |
|------|---------|--------------|---------------------|
| 1    | A304    | 86           | Computer Lab - 1    |
| 2    | A305    | 86           | Computer Lab – 2    |
| 3    | C308    | 86           | Computer Lab – 3    |
| 4    | D201    | 66           | Computer Lab – 4    |
| 5    | M302    | 166          | Computer Centre-MCA |

**f) Research laboratories :**

NIL

**28. Number of students of the department getting financial assistance from College.**

Total Number of Students : 3

Total Amount : 1,50,000

| Academic Year | Government        |        | Management        |        |
|---------------|-------------------|--------|-------------------|--------|
|               | Student benefited | Amount | Student benefited | Amount |
| 2012 - 13     | 4                 |        | 2                 | 20,000 |
| 2013 – 14     | 2                 |        | 8                 | 80,000 |
| 2014 – 15     | 3                 |        | 6                 | 60,000 |
| 2015 – 16     | 4                 |        | 3                 | 30,000 |
| 2016 - 17     | 2                 |        | 2                 | 20,000 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

No

**30. Does the department obtain feedback from**

**a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes. The department obtains feedback from faculty on curriculum design and teaching learning evaluation methods for every semester. The outcome of the feedback is considered when modifying curriculum in the next regulation. The feedback on learning and evaluation methods are also collected and utilized to improve the teaching practices and evaluation methods.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Yes. At the end of the each semester, students give feedback on staff, teaching-learning, evaluation and curriculum. This is used to assess the performance of faculty and the feedback report is discussed with the faculty. This healthy practice helps the faculty to enhance their teaching-learning methodologies. When the curriculum is revised, the student feedback is also utilized. In addition to this, class committee is another forum where student can put forth any academic issues faced and to get solved. This committee is constituted with four student members and faculties handling courses for the particular class and is chaired by senior faculty. In this committee, teaching-learning practices and any other grievances are discussed and follow up actions are taken.

**c. Alumni and employers on the programmes and what is the response of the department to the same?**

Yes. The department believes that the distinguished alumni and employers play the vital role in the curriculum design. The constitution of Board of Studies includes alumni and industry expert to review and suggest the changes in the curriculum and syllabus. The alumni are visiting and contributing to the growth of the department by giving guest lectures, workshops and employee referrals. The distinguished alumni and employers are also invited to preside over the technical events. Whenever the alumni visits, feedbacks on the system are collected and used for the further growth of the department.

**31. List the distinguished alumni of the department (maximum 10)**

| S.No | Name of the Alumni | Batch   | Current Position          | Company                                             |
|------|--------------------|---------|---------------------------|-----------------------------------------------------|
| 1    | Selvamariappan     | 2005-08 | Programmer Analyst        | CTS, Coimbatore                                     |
| 2    | Jayaprakash S      | 2006-09 | Manager-Depot             | Food Corporation of India, Tuticorin                |
| 3    | Manoj kumar S      | 2006-09 | Technical lead            | iNautix Technologies India Private Limited, Chennai |
| 4    | Mohanraj N         | 2006-09 | Technical Lead            | Aspire Systems, Chennai                             |
| 5    | Nandakumar S       | 2007-10 | Software Engineer         | Accenture, Bangalore                                |
| 6    | Prabhu R           | 2007-10 | Technology Analyst        | Infosys, Mangalore                                  |
| 7    | Balachandar R      | 2010-13 | Functional System Analyst | Aon Hewlett, Chennai                                |
| 8    | Arunpandian R      | 2012-15 | Asst. System              | TCS, Chennai                                        |

|    |            |         |                             |              |
|----|------------|---------|-----------------------------|--------------|
|    |            |         | Engineering                 |              |
| 9  | Moorthi P  | 2009-12 | Team lead                   | TCS, Chennai |
| 10 | Karthika D | 2012-15 | Associate Software Engineer | HCL, Chennai |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| S. No              | Name of Event | Title                                 | Date       | External Experts                                                                                                             | No. of Beneficiary |
|--------------------|---------------|---------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>2012 - 2013</b> |               |                                       |            |                                                                                                                              |                    |
| 1                  | Guest Lecture | Search Engine Optimization Techniques | 21.07.2012 | J.Aravind, General Manager (Business Deelopment & Placement), LOT IT Solutions, Coimbatore                                   | 54                 |
| 2                  | Guest Lecture | Mulimedia and its job opportunities   | 27.07.2012 | Mr.O.S.Ravikumar, Manager in training and Development, Adoro Multimedia Technology, Coimbatore                               | 54                 |
| 3                  | Guest Lecture | Networking                            | 28.07.2012 | Mr.Vinoth Asokan, Juniper & CISCO Certfied Network Associate, Sivakumar, Indian Institute of Hardware Technology, Coimbatore | 54                 |
| 4                  | Guest Lecture | Cyber Securiy and Ethical Hacking     | 31.07.2012 | Mr.Aashish shah, Managing Director, Shivakumar, Ethical Hacker, Appin Technology Lab, Coimbatore                             | 56                 |
| 5                  | Guest Lecture | HR Practices in IT Companies          | 06.08.2012 | Mr.P.Karthikeyan, Senior Consultant, CareerNet Technolo - gies, Bangalore                                                    |                    |
| 6                  | Guest Lecture | Java Architecture                     | 12.09.2012 | Suneesh Saleen, Java Developer, S.Ravikumar, Business Development                                                            | 54                 |



| S. No | Name of Event             | Title                                | Date       | External Experts                                                                                                   | No. of Beneficiary |
|-------|---------------------------|--------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------|--------------------|
|       |                           |                                      |            | Executive, Abile Technologies, Coimbatore                                                                          |                    |
| 7     | Guest Lecture             | Project Planning and Development     | 27.09.2012 | Sabarinathan Muthu, Business Executive Officer, 4S Software Solutions, Coimbatore                                  | 56                 |
| 8     | Guest Lecture             | Eye care                             | 28.09.2012 | Dr.Charles Chalamon, Vasan Eye Care, Coimbatore                                                                    | 65                 |
| 9     | One Day Hands On Training | Adobe Photoshop and Macromedia Flash | 29.09.2012 | Mr.S.Pradeep kumar, Technical Consultant, NOEL Systems, Coimbatore                                                 | 54                 |
| 10    | Guest Lecture             | Communicative English                | 05.10.2012 | B.Ramana Moorthy, Trainer and Partner, Speak Easy(CSC Group), Coimbatore                                           | 56                 |
| 11    | Workshop                  | Hardware and Networking              | 06.12.2012 | Sukumar, Business Development Manager, R.Saravana Selvam, Hardware and Networking Trainer, CSC Limited, Coimbatore | 34                 |
| 12    | Guest Lecture             | Smart Phone Application Development  | 09.01.2013 | Mr.Prince Chandran, Technical Director, P41 Technologies, Coimbatore.                                              | 53                 |
| 13    | Guest Lecture             | Oracle Certfications                 | 02.02.2013 | Mr.S.Santhosh, Oracle Certified Associate, Augusta HiTech Solutions, Coimbatore                                    | 40                 |
| 14    | Guest Lecture             | Content Management System(Joomla)    | 07.02.2013 | Mr.Gnasekar, Technical Head, APEX Mutlimedia, Coimbatore                                                           | 51                 |
| 15    | One Day Hands on Training | Content Management System(Joomla)    | 28.02.2013 | Mr.Gnanasekar, Technical Head, APEX Mutlimedia, Coimbatore                                                         | 13                 |
| 16    | Guest Lecture             | Web Design Tools                     | 01.03.2013 | Mr.Sabarinathan Muthu, Business                                                                                    | 28                 |

| S. No              | Name of Event                          | Title                                     | Date            | External Experts                                                                                             | No. of Beneficiary |
|--------------------|----------------------------------------|-------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------|--------------------|
|                    |                                        |                                           |                 | Executive Officer,<br>4S Software Solutions,<br>Coimbatore                                                   |                    |
| 17                 | 6th National level Technical Symposium |                                           | 08.03.2013      | Mr.Prince Chandran,<br>Technical Director,<br>P41 Technologies,<br>Coimbatore.                               | 380                |
| 18                 | Guest Lecture                          | Secure Computer User Specialist (SCUS)    | 18.05.2013      | Mr. Gnanasekar<br>Technical Director<br>G-TEC Computer Education,<br>Coimbatore                              | 34                 |
| <b>2013 - 2014</b> |                                        |                                           |                 |                                                                                                              |                    |
| 1                  | Guest Lecture                          | Aptitude test: Preparation                | 19.07.2013      | Subbiah, Trainer,<br>Manithaneyam IAS Academy, Ooty                                                          | 54                 |
| 2                  | Guest Lecture                          | Android Application Development           | 20.07.2013 (FN) | Senthilkumar, PAN TECH Solutions,<br>Coimbatore                                                              | 90                 |
| 3                  | Meet the HR                            | Interview Techniques                      | 20.07.2013 (AN) | Mr.P.Karthikeyan,<br>Senior Consultant,<br>CareerNet Technologies,<br>Bangalore                              | 90                 |
| 4                  | Guest Lecture                          | How Yoga help you to Focus                | 17.08.2013      | Dr. M.Durai Kannan,<br>Sri Gugapriya Hospital, Ganapathy,<br>Coimbatore                                      | 125                |
| 5                  | Guest Lecture                          | IT Opportunities in Insurance Sectors     | 13.09.2013      | A.Alexander, Branch Head, IDBI-Federal Life Insurance Co. Ltd., Coimbatore                                   | 60                 |
| 6                  | Hands on training                      | Photoshop and Flash                       | 05.10.2013      | Mr.S.Pradeep kumar,<br>Technical Consultant,<br>NOEL Systems,<br>Coimbatore                                  | 65                 |
| 7                  | Guest Lecture                          | How to overcome interview fears and myths | 07.10.2013      | Vijey.Ramalingam,<br>Functional Head and System Analyst, Open Source Research and Development,<br>Coimbatore | 53                 |
| 8                  | Guest Lecture                          | Linux Administration                      | 11.10.2013      | Poras Technologies,<br>Coimbatore                                                                            | 50                 |
| 9                  | Guest                                  | SLET/NET                                  | 26.10.2013      | Mrs. Thahira Banu,                                                                                           | 10                 |

| S. No              | Name of Event           | Title                                        | Date          | External Experts                                                                                       | No. of Beneficiary |
|--------------------|-------------------------|----------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------|--------------------|
|                    | Lecture                 | Preparation                                  |               | Asst.Professor/Computer Science department, Krishnammal College of Arts and Science, Coimbatore.       |                    |
| 10                 | Guest Lecture           | Demo on "PHP & Mysql"                        | 10.01.2014    | Vijey.Ramalingam, Functional Head and System Analyst, Open Source Research and Development, Coimbatore | 64                 |
| 11                 | Motivation Session      | Self Realization                             | 30.01.2014    | Dr. V.R.Arivazhagan Director, Indian Institute of Yoga & Naturopathy, Coimbatore                       | 80                 |
| 12                 | Alumni Interaction      | Job opportunities at atlas health care       | 01.03.2014 AN | Santhoshkumar MA ATLAS Healthcare Software Coimbatore                                                  | 88                 |
| 13                 | Alumni Interaction      | Job opportunities in Java Based tech         | 01.03.2014 FN | Dharmaraj, I Noble Solutions, Coimbatore                                                               | 60                 |
| 14                 | 7th Technical Symposium | FROBNICATE - 14                              | 14.03.2014    | L.Sanjeevi Raj, General Manager-HR, IR/Admin, SERVALL Engineering Works Pvt. Limited, Karamadai        | 200                |
| 15                 | Alumni Interaction      | Job opportunities in Java Based technologies | 03.04.2014    | M.Murali (2008-11), ALHOSNI International, Muscat                                                      | 165                |
| <b>2014 - 2015</b> |                         |                                              |               |                                                                                                        |                    |
| 1                  | Guest Lecture           | Java Server Faces                            | 04.07.2014    | Indeerjeet Khurjonhs, Academic Trainer, iNoble Solutions, Coimbatore                                   | 70                 |
| 2                  | Guest Lecture           | Placement and Goal Setting                   | 19.07.2014    | Zenith Thakur, Software Engineer, Robert Bosch, Coimbatore                                             | 72                 |
| 3                  | Guest Lecture           | Career Development                           | 19.07.2014    | Veerappan, Robert Bosch, Coimbatore                                                                    | 72                 |

| S. No | Name of Event | Title                                       | Date       | External Experts                                                                         | No. of Beneficiary |
|-------|---------------|---------------------------------------------|------------|------------------------------------------------------------------------------------------|--------------------|
| 4     | Guest Lecture | Awareness on Project and Domain Selection   | 21.07.2014 | Mr.Nirmalan H, Elysium Technologies, Coimbatore                                          | 75                 |
| 5     | Guest Lecture | Software Testing                            | 22.07.2014 | Indian Institute of Software Testing, Gandhipuram, Coimbatore                            | 70                 |
| 6     | Guest Lecture | Microsoft Certification Programmes          | 23.07.2014 | Prithivraj-IT Manager, CADD Technologies School of Design Pvt. Ltd., Coimbatore          | 70                 |
| 7     | Guest Lecture | Career Opportunites in Banking Sectors      | 28.07.2014 | Mr.Srihari J, Head-Operations, C-Cube Technologies, Coimbatore                           | 35                 |
| 8     | Guest Lecture | Product Evaluation using Interaction Design | 02.08.2014 | Viswanath Sanakaranarayan, Asst.Professor / Asst.Manager-COE, Botho University, Botswana | 65                 |
| 9     | Guest Lecture | Big data Analytics                          | 04.08.2014 | Prasanna, Team Head, Poras Technologies, Coimbatore                                      | 68                 |
| 10    | Guest Lecture | Network Technologies - Certification        | 08.08.2014 | Senthilkumar, Manager-Training, HCL Learning, Coimbatore                                 | 90                 |
| 11    | Guest Lecture | Open Source Technologies – Wordpress (CMS)  | 13.08.2014 | Harishankar Rangaraj, Founder Director - Open Source academy India Pvt. Ltd., CBE        | 90                 |
| 12    | Guest Lecture | Network Applications                        | 28.08.2014 | Balamurugan, Technical Head, APEX Inegrated Systems, Coimbatore                          | 65                 |
| 13    | Guest Lecture | HTML5 and CSS3                              | 11.09.2014 | Santhosh Duraisamy, Business Executive and Programming Expert, Bonfring, CBE             | 65                 |
| 14    | Guest Lecture | Quantitative Aptitude                       | 12.09.2014 | Manoj kumar, Q& A Trainer, Mahendra Institutions, CBE                                    | 50                 |

| S. No | Name of Event                | Title                                               | Date       | External Experts                                                                       | No. of Beneficiary |
|-------|------------------------------|-----------------------------------------------------|------------|----------------------------------------------------------------------------------------|--------------------|
| 15    | Guest Lecture                | Importance of .NET in Application Development       | 18.09.2014 | Ms.Abinaya, Software Developer, Gokula Krishnan, MD, NxtLogic, Coimbatore              | 65                 |
| 16    | Guest Lecture                | IT and Media Careers                                | 29.09.2014 | S.Aravindan, Managing Director, Clusters Academy of Excellence, Agam Technologies, CBE | 55                 |
| 17    | Guest Lecture                | Motivation Session                                  | 30.09.2014 | Shiva Prakash, Director, Jobs Direct Consulting Services, Coimbatore                   | 54                 |
| 18    | Guest Lecture                | Open Source Technologies in Multimedia and Graphics | 30.10.2014 | Sivaprakash Velayutham, Director, Realworks Studios private Ltd., CBE                  | 85                 |
| 19    | Hands on training (Workshop) | Word Press                                          | 31.10.2014 | Harishankar Rangaraj, Founder Director, Open source Academy India Pvt. Ltd., CBE       | 43                 |
| 20    | Guest Lecture                | Android Apps Development                            | 31.10.2014 | Senthilkumar, Java/Android Developer, Propulsion Technologies, CBE                     | 36                 |
| 21    | Guest Lecture                | Software Testing and SQA                            | 11.11.2014 | Gokul Geetha Narayanan, SQA Analyst, Innomind Technologies, Kochi                      | 37                 |
| 22    | Guest Lecture                | Software Project Management                         | 07.01.2015 | Mr. Prithiv Raj, Technical Head, Accent Techno Soft, Coimbatore.                       | 33                 |
| 23    | Guest Lecture                | Online Job Market                                   | 08.01.2015 | Mr.Saravanan and Mr.Boopathy, Managing Directors, RindiaR Software, Coimbatore         | 37                 |
| 24    | Guest Lecture                | Web Design                                          | 03.02.2015 | Bharthi, Technical Trainer, CADD Technologies, CBE                                     | 35                 |

| S. No              | Name of Event                | Title                                             | Date       | External Experts                                                                                                 | No. of Beneficiary |
|--------------------|------------------------------|---------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------|--------------------|
| 25                 | Guest Lecture                | Ethical Hacking                                   | 13.02.2015 | Hari krishnan, Technical Staff, Vijay, Business Development Executive, Global Vision, Coimbatore                 | 38                 |
| 26                 | Guest Lecture                | Application Development using Mobile Technologies | 07.02.2014 | L.Raj krishna, Director-Mobility, ATOM Technologies, Coimbatore                                                  | 38                 |
| 27                 | Hands on training (Workshop) | Web Design using Dreamweaver                      | 17.02.2015 | Vignesh, GUI Designer, ATOM Technologies, CBE                                                                    | 39                 |
| 28                 | Guest Lecture                | Virtualization and Cloud Computing                | 27.03.2015 | Hari krishnan, Technical Staff, Vijay, Business Development Executive, Global Vision Infoconn Pvt.               | 38                 |
| <b>2015 - 2016</b> |                              |                                                   |            |                                                                                                                  |                    |
| 1                  | Awareness Programme          | Yoga                                              | 04.07.2015 | Dr. V.R.Arivazhagan Director, Indian Institute of Yoga and Naturopathy, Coimbatore                               | 30                 |
| 2                  | Guest Lecture                | Digital Marketing and Branding                    | 10.07.2015 | Mr.Fazulul Rahman N, SEO Strategist, Founder-Managing Director, Data Crawl Global Services Pvt. Ltd., Coimbatore | 36                 |
| 3                  | Guest Lecture                | Project Development using Mobile Technologies     | 17.07.2015 | Mr. Gokula krishnanj, Web developer, Accent Techno Soft, Coimbatore.                                             | 37                 |
| 4                  | Guest Lecture                | Mobile App Development in Android                 | 21.07.2015 | Karthikeyan M, CEO, Smartmobion, Chennai & Technical Director, YRSK Technologies, Coimbatore                     | 34                 |
| 5                  | Guest Lecture                | Phone Gap-Mobile App Framework                    | 23.07.2015 | Mr.Panneer Selvam, Director, Doclick Solutions,                                                                  | 36                 |

| S. No | Name of Event       | Title                           | Date       | External Experts                                                                                                     | No. of Beneficiary |
|-------|---------------------|---------------------------------|------------|----------------------------------------------------------------------------------------------------------------------|--------------------|
|       |                     |                                 |            | Coimbatore                                                                                                           |                    |
| 6     | Workshop            | PHP & MySQL using Dreamweaver   | 20.08.2015 | Selvanayagam, CEO & Govindarajan, UI Developer, Immaculate Technologies, Salem                                       | 36                 |
| 7     | Guest Lecture       | Web Development                 | 27.08.2015 | Levale, Technical Head, Litz Tech, Coimbatore                                                                        | 45                 |
| 8     | Workshop            | Web UI Design using Dreamweaver | 31.08.2015 | Mr. Prithiv Raj, Technical Head, Accent Techno Soft, Coimbatore.                                                     | 25                 |
| 9     | Guest Lecture       | Big Data Analysis               | 01.09.2015 | Mr. Sai Natarajan, Director, Duratech, Coimbatore                                                                    | 55                 |
| 10    | Motivation (Alumni) | Java Technologies               | 12.09.2015 | Thambi & Udayakumar(2012-15), Developers, Cygnus Software, Coimbatore                                                | 24                 |
| 11    | Guest Lecture       | Multimedia Trends               | 12.09.2015 | Swapna, Branch Head & Madesh, Graphics Designer, APEX Multimedia, Coimbatore                                         | 24                 |
| 12    | Motivation Session  | Career Development              | 22.09.2015 | YRSK Technologies, Coimbatore                                                                                        | 45                 |
| 13    | Guest Lecture       | CodeIgniter-PHP Framework       | 16.10.2015 | Mr. J. Manikandan, Senior Software Engineer and Mr. Rajesh, Embedded PHP Developer, Appin Technology Lab, Coimbatore | 23                 |
| 14    | Workshop            | Multimedia Technologies         | 21.11.2015 | Senthil, Multimedia Designer, APEX Multimedia, Coimbatore                                                            | 25                 |
| 15    | Guest lecture       | NoSql (Mongo DB)                | 24.11.2015 | Mr. Gokula krishnanj, Web developer, Accent Techno Soft, Coimbatore.                                                 | 24                 |
| 16    | Guest               | Linux system                    | 26.11.2015 | Mr. M. Ramachandran,                                                                                                 | 25                 |

| S. No | Name of Event         | Title                             | Date                    | External Experts                                                                          | No. of Beneficiary |
|-------|-----------------------|-----------------------------------|-------------------------|-------------------------------------------------------------------------------------------|--------------------|
|       | Lecture               |                                   |                         | Technical head, Mr.J.Sathish, System Engineer, HCL Career Development, Coimbatore         |                    |
| 17    | Guest Lecture         | Linux OS                          | 07.01.2016              | Mr.S.Muthukumar, Redhat Certfed Engineer, Mazenet, Coimbatore                             | 25                 |
| 18    | Guest Lecture         | SEO and Trends in IT              | 11.01.2016              | Mr.Sam Peter, MD, Mr.Sathish, Software engineer, Softwing Technologies, Coimbatore        | 24                 |
| 19    | Alumni Session        | Multimedia in Cini Industry       | 19.01.2016              | Mr.K.Prasath (2012-15), Model Designer, Real Works Studio, Coimbatore                     | 22                 |
| 20    | International Seminar | IoT-Smart City Perspective        | 20.01.2016              | Dr.A.Paul, Director, CCML Lab & Professor/CSE, Kyungpook National University, South Korea | 25                 |
| 21    | Guest Lecture         | Web Programming: PHP              | 21.01.2016              | Mr.S.Venkatesh, CEO, Consensus Technologies, Coimbatore                                   | 25                 |
| 22    | Alumni Session        | Healthcare ERP                    | 29.01.2016              | Ryon simon(2012-15), Cochin, Kerala                                                       | 24                 |
| 23    | Workshop              | Wordpress CMS                     | 30.01.2016              | S.Sundararajan, Head/MCA, SNSCT                                                           | 24                 |
| 24    | Workshop              | Androd App Development            | 05.02.2016 - 06.02.2016 | Mr.Panneer Selvam, Director, Doclick Solutions, Coimbatore                                | 36                 |
| 25    | Workshop              | HTML, CSS using Bootstrap         | 11.03.2016-12.03.2016   | Mr.S.Venkatesh, Chief Technology Specialist, Consensus Technologies, Coimbatore           | 25                 |
| 26    | Alumni Session        | Career in Android app development | 16.03.2016              | Mr.A.Rajesh Kumar(2012-15), App Devloper, Mindnotix, Coimbatore                           | 25                 |
| 27    | Guest                 | Career Guidance                   | 18.03.2016              | Mr. Tamilselvan,                                                                          | 25                 |



| S. No              | Name of Event     | Title                                           | Date                  | External Experts                                                              | No. of Beneficiary |
|--------------------|-------------------|-------------------------------------------------|-----------------------|-------------------------------------------------------------------------------|--------------------|
|                    | Lecture           |                                                 |                       | Java Lead, Mazenet Solutions, coimbatore                                      |                    |
| 28                 | Guest Lecture     | PHP : web Development                           | 21.03.2016            | Sowmya -Training Head, Vaiha Technology, Coimbatore                           | 24                 |
| <b>2016 - 2017</b> |                   |                                                 |                       |                                                                               |                    |
| 1                  | Workshop          | Digital Marketing                               | 04.08.2016            | Mr.Ahamed Ezaz Rasool, Founder, Spik Solutions, Erode                         | 24                 |
| 2                  | Guest Lecture     | Software Testing using Selenium                 | 10.08.2016            | Mr.Shahjid, QA Expert, OSAIPL                                                 | 25                 |
| 3                  | Workshop          | .NET Programming with MVC framework             | 18.08.2016            | Mr.S.Santhosh Kumar, CEO, Byval Technologies, Coimbatore                      | 37                 |
| 4                  | Guest Lecture     | Internet of Things                              | 23.08.2016            | Ms.Narmadha N, General Manager, Newareeliya Soft tech, Coimbatore             | 51                 |
| 5                  | Hands on Training | Big Data using Hadoop                           | 24.08.2016            | Sai Natarajan, Duratech Solutions, Coimbatore                                 | 52                 |
| 6                  | Guest Lecture     | Digital Marketing in Business                   | 15.09.2019            | Swapna, Branch Head & Madesh, Graphics Designer, APEX Multimedia, Coimbatore  | 55                 |
| 7                  | Seminar           | Higher studies in USA                           | 17.09.2016            | Mr.Suren Naidoo, CEO of Education for Advanc ement, USA                       | 200                |
| 8                  | Workshop          | Wordpress and Bootstrap framework               | 27.09.2016-28.09.2016 | Mr.Immanuel Rajayah, UI Developer, Rfpio Inc,                                 | 34                 |
| 9                  | Guest Lecture     | Agile Software Testing                          | 05.10.2016            | Ms.Maria Roslin, Properietor, JMJ Institute for Software Training, Coimbatore | 49                 |
| 10                 | Guest Lecture     | MEAN (MogoDB, ExpressJS, AngularJS and Node.js) | 20.10.2016            | Mr.Syed Haroon, Technical Head, Blaze3 Solutions, Coimbatore                  | 48                 |
| 11                 | Guest Lecture     | MongoDB with PHP                                | 26.10.2016            | Mr.Naveen Kumar, Tester, Accent Techno Soft (ATS), Coimbatore                 | 50                 |

**33. List the teaching methods adopted by the faculty for different programmes.**

- Lecture
- Interactive
- Tutorial hour
- Group discussion
- ICT Based methods like presentations, video lectures, animation etc...
- Experimental
- Project based
- Guest lectures, seminars, workshops, hands-on training etc...

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The department ensures the outcome of teaching-learning met programme objective by

- Conducting continuous internal assessments tests and review the result
- Conducting end semester examinations and review the result
- Feedback is obtained from the graduates (alumni) to assess the outcome of the programme met the programme objective

**35. Highlight the participation of students and faculty in extension activities.**

| S.No. | Date       | Event               | Venue                                                               |
|-------|------------|---------------------|---------------------------------------------------------------------|
| 1     | 02.08.2016 | Sapling Plantations | Govt. Elementary School,<br>Vaiyampalayam, S.S.Kulam,<br>Coimbatore |

- In addition to that, our students are donate the bloods in the blood camps
- Many students registered for organ donation

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- Organizing guest lectures/workshops/seminars regularly by industry experts
- Publication of papers in reputed national/International publications
- Taking consultancy works from industries as a part Institute-Industry partnership
- Organizing technical events for outside participants every year
- Signing Memorandum of Understanding (MoU) with industries
- Arrangement of in-plant training/internship/industrial projects to the students
- Organizing industrial visits to offer practical exposure to current technologies
- Participating and presenting papers in National/International conferences
- Faculty participation in faculty enrichment programme like FDP, Workshop and seminars
- Organizing National/International level conferences which allow faculties and students to share their research ideas

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Programme is not accredited by NBA

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;"><b>STRENGTHS</b></p> <ul style="list-style-type: none"> <li>• Graduation Rate</li> <li>• Academic Infrastructure – ICT Enabled class room, laboratory with state of art, department library</li> <li>• Choice based credit system</li> <li>• Industry ready syllabus</li> <li>• Regular technical inputs through guest lectures, seminar and hands on training by industry experts</li> <li>• Regular placement assistance</li> </ul> | <p style="text-align: center;"><b>WEAKNESSES</b></p> <ul style="list-style-type: none"> <li>• Low Research contribution</li> <li>• Lack of consultancy works and sponsored projects</li> </ul>                                                                                                                                                                                                                                        |
| <p style="text-align: center;"><b>OPPORTUNITIES</b></p> <ul style="list-style-type: none"> <li>• Growing IT sectors in locality</li> <li>• Collaboration with start-up companies for internships, projects and placement</li> <li>• Education hub / Smart city</li> </ul>                                                                                                                                                                                            | <p style="text-align: center;"><b>CHALLENGES</b></p> <ul style="list-style-type: none"> <li>• Lack of interest in PG among student community, (Availability of employability after completing UG)</li> <li>• Lateral entry admissions (inadequate duration for technical programme)</li> <li>• Inadequate financial assistance from banks for PG programme</li> <li>• Enhancing linguistic and logical ability of students</li> </ul> |

**39. Future plans of the department.**

- Increasing faculty contribution in Research
- To create in-house Software Development team in the campus
- To work on Consultancy services and Research Projects from funding agencies
- Collaboration with the Top Institutions and industries for research and academic related works
- Developing Centre of Excellence
- Computer literacy and Digital content to school teachers /students (Extension Activity)

# ***Post Accreditation Initiatives***

## **Post Accreditation Initiatives**

### **Criterion I Curricular Aspects**

- The college has been conferred with Autonomous status from the academic year 2012-13 by UGC.
- Formulation of Programme Educational Objectives and Programme Outcomes for all Programmes has been achieved.
- A rich curriculum and syllabus enabled by the autonomous status of the institution.
- Outcome Based Education(OBE) and Choice Based Credit System(CBCS) is in practice.
- The CBCS offers a range of choice for students to choose from Professional Core and Electives, Engineering and Basic Science, Humanities and Science courses and Employability enhancement courses.
- Modular courses have been introduced to enhance the capabilities of learning and to bridge the academic industry gap.
- The fast track system enabling the meritorious students to study eighth semester courses in the earlier semesters and to undertake internship or industrial projects has been introduced.
- The weightage given for internal assessment has been increased from 25 % to 50 %.
- Implementation of inter disciplinary and industry based courses.
- Inclusion of One-credit courses based on the contemporary industrial practices and needs.
- Inclusion of courses related to areas specified by National Skill Development Corporation.
- Field visits and career-oriented training incorporated in the curriculum.

### **Criterion II Teaching-Learning and Evaluation**

- Implementation of Choice Based Credit System (CBCS) that offers flexibility in curriculum.
- Provisions to earn additional credit through add on course, one credit course and online courses.
- Inclusion of courses for skill development which includes Employment Enhancement Courses, Open Electives and Field visits.
- Established a Centre for Learning and Teaching (CLT) with a vision to enhance the students learning experience in the campus.
- SNS Courseware (e-learning facility) is developed where the Faculty members upload the lesson plan, detailed course material, complete question bank and relevant materials corresponding to their course.
- Incorporation of innovative teaching pedagogies such as ICT enabled lectures, flipped classroom, jigsaw method, think-pair-share, analogy etc. for effective teaching learning process.

- Structured questionnaire through online / offline system for feedback on faculty members.
- Awards & Scholarships for academic toppers to motivate other students to excel in academic activities.
- Rigorous recruitment process consisting of online aptitude test, group discussion and interview with expert members.
- Constitution of 'Best Senior Faculty' & 'Best Young Faculty' awards.
- Introduction of online evaluation system.
- Faculty visits to the industry, research laboratories, and universities in India & abroad.
- Inclusion of Higher Order Thinking Skill [HOTS] question in the examinations.

### **Criterion III Research, Consultancy and Extension**

- Research and Innovative clubs are initiated and the seed money scheme has been setup by the management to encourage students and faculty members in developing innovative projects
- Management sanctions Rs.30 Lakhs every year for research and development.
- Encouragement to the faculty members by providing cash award and appreciation certificate for publishing papers in reputed National and International Journals through which 940 papers have been published in refereed journals with impact factor ranging from 0.07 to 7.82.
- Promoting interdisciplinary research by encouraging the students and faculty members to take up research projects.
- Special efforts have been taken to encourage faculty to file for patents and 5 patents have been filed in the last 2 years.
- Organized International Conference in collaboration with International Universities and sponsored by IEEE
- Faculty members publication with Scopus indexed Journals is 750, Google Scholar citation is 2784, Citation Index ranges from 1 to 727, SNIP value from 0.01 to 1.5, SJR is from 0.105 to 0.939 and h-index ranges from 1 to 16.
- The College has instituted the research award for faculty publications and for obtaining research grants from external bodies.
- The college has an Industry Institute Partnership Cell in which signed a Memorandum of Understandings (MoU) with 189 National and International Universities/Industries to carry out collaborative research.
- Total revenue generated through consultancy services is Rs.7.99 Lakhs.
- The College sensitizes its faculty members and students on Institutional Social Responsibility activities through structured forums like NSS, NCC, YRC, RRC, SNS Social Responsibility Initiatives (SNS S.R.I) and Clubs and Societies.
- Recognition and awards are received for various extension activities from University, State level agencies and NGOs.

#### **Criterion IV Infrastructure and Learning Resources**

- Separate first year block with elevator facility has been added.
- 15 new laboratories were established with advanced equipments for hands on experience.
- Open auditorium with seating capacity of 6,000 viewers has been established.
- Fully furnished COE block with a separate confidential area to ensure academic integrity.
- An exclusive amenities block is established for student's extracurricular activities.
- Well planned placement cell with Group Discussion Room, HR Room, Conference Room and separate library has been established.
- New seminar halls are fitted with Hi-Fi communication systems and air conditioner.
- Established new playgrounds and defence training academy with the outdoor training facility.
- Indoor auditorium for Table Tennis, Ball Badminton Court, Shuttle badminton Court
- Swing and outdoor relaxing chairs are made for student's relaxation.
- Sophisticated Principal quarters and Guesthouse
- Luxurious hostel rooms with Air Conditioner and refrigerator
- Sewage water treatment is plant with the capacity of 2 Lakhs liters of waste water purified for reuse on daily basis
- Digital library established with Audio Visual room, NPTEL and E- learning resources
- 7300 exclusive placement books are made available as a unique featured for student's career and development activities.
- 24\*7 Wi-Fi enabled campus with internet speed of 100Mbps
- Campus is fully under surveillance by the CCTV camera.

#### **Criterion V Student Support and Progression**

- College has introduced 7 new programmes after 2012. The total students strength of the college is 4043.
- Management has introduced academic topper, single/No parent scholarship. During the year 2016-17 alone 170 students are benefitted through these scholarships worth of Rs.57.35Lakhs.
- Establishment of many professional chapters like IE(I), ISHRAE, SAE, IEI.
- Students attendance and performance is intimated to the parents through SMS.
- Increased number of On & Off campus placements by Tier I & Tier II companies.
- Publication of news letter by departments and college.
- Wi-Fi Facility throughout the campus with internet bandwidth of 100mbps.
- National level prizes won by the students in co-curricular and extra curricular activities.
- Guinness World Record and Limca book of records by the students.
- Alumni are actively involved in placement activities.
- Student representatives in Board of Studies, Academic council and IQAC.
- Coaching for GATE & BEC examinations.
- Implementation of Group insurance for the students and faculty members.

## **Criterion VI Governance, Leadership and Management**

- UGC has conferred autonomous status from 2012-13.
- The College is recognized by UGC under Section 12(B).
- Functional Internal Quality Assurance Cell (IQAC) in the organization's management system.
- NBA Accreditation for 5 programmes namely CSE, IT, ECE, EEE & Mechanical.
- Stakeholders of the institution especially students are encouraged to participate in the College Management through their memberships in various committees.
- Internationalization of the institution through signing MoU with Foreign Universities for Faculty Exchange, research collaboration etc.
- Adoption of VI Pay scale to attract and retain eminent faculty.
- The college has conducted Faculty Development Programmes sponsored by Centre for Faculty Development (CFD), AICTE and other funding agencies.
- The Internal Quality Assurance Cell [IQAC] and Centre for Teaching and Learning [CLT] are instrumental in enhancing and assuring the quality of teaching and learning in the Institution.
- Implementation of Internal and external Academic & Administrative audit .
- Innovations in the academics and administrations have been done through recommendations of IQAC.
- Annual Self Appraisal for faculty in practice.
- Regular Management Review Meetings for monitoring the academic progress.

## **Criterion VII Innovations and Best Practices**

- Establishment of video conferencing facilities
- Conducting of Green Audit
- Enhancing the power generation through renewable resources.
- Campus wide implementation of the best practices
- Implementation of sustainability measures.
- Extending the facilities to the community through extension activities.
- Ready to invest approach by the management.



***Declaration by the Head of  
the Institution***



# SNS COLLEGE OF TECHNOLOGY



(An AUTONOMOUS Institution)

(Approved by AICTE and Affiliated to Anna University Recognised by UGC,

Accredited by NBA-AICTE, NAAC-UGC with 'A' Grade)

Sathy Main Road, SNS Kalvi Nagar, Saravanampatti Post, Coimbatore - 641 035. Tamil Nadu

Tel : 0422 2666264, 6543407, Fax : 0422 2665138

E-mail : snsct@snsgrups.com, Web : www.snsgrups.com

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## Declaration by the Head of the Institution

I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the institution  
with seal

Place: Coimbatore - 35

Date: 26.04.2017.

Dr. S. CHENTHUR PANDIAN  
PRINCIPAL  
S.N.S. College of Technology  
Coimbatore - 641 035

# ***Certificate of Compliance***



# SNS COLLEGE OF TECHNOLOGY



(An AUTONOMOUS Institution)

(Approved by AICTE and Affiliated to Anna University Recognised by UGC,

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Sathy Main Road, SNS Kalvi Nagar, Saravanampatti Post, Coimbatore - 641 035. Tamil Nadu

Tel : 0422 2666264, 6543407, Fax : 0422 2665138

E-mail : snsct@snsgrups.com, Web : www.snsgrups.com

## Certificate of Compliance

*(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)*

This is to certify that **SNS COLLEGE OF TECHNOLOGY** fulfils all norms,

1. Stipulated by the affiliating University and
2. Regulatory Council/Body [such as UGC and AICTE] and
3. The affiliation and recognition is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: 26.04.2017

Place: Coimbatore - 35

Principal/Head of the Institution

(Name and Signature with Office seal)

**Dr. S. CHENTHUR PANDIAN**

PRINCIPAL

S.N.S. College of Technology

Coimbatore - 641 035

# ***Annexure***

# A I APPROVAL FOR ESTABLISHMENT OF THE COLLEGE



## अखिल भारतीय तकनीकी शिक्षा परिषद् ALL INDIA COUNCIL FOR TECHNICAL EDUCATION (भारत सरकार का एक सांविधिक संस्थान) (A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

F.No.: 730-52-452(E)/ET/2002  
Date : 02.08.2002

Secretary to Govt.,  
Higher Education Department,  
Government of Tamil Nadu,  
Secretariat Fort St. George,  
Chennai - 600 009

1. AICTE approval to SRI S.N.S. CHARITABLE TRUST, 14, V.C.S. NAGAR, G.N. MILLS POST, COIMBATORE-641 029, TAMIL NADU for establishment of S.N.S. COLLEGE OF TECHNOLOGY, SATHY ROAD, VIZHIYAMPALAYAM, KALAPPATTY POST, COIMBATORE - 641 035, TAMIL NADU. W.P.NO.18802/2002 DTD. 28/05/2002.

This case was considered under court direction vide W.P.NO.18802/2002 DTD. 28/05/2002 and based on the Expert Committee constituted by the Council and as per the provisions of AICTE Act and Regulations, the All India Council for Technical Education (AICTE), is pleased to accord approval to SRI S.N.S. CHARITABLE TRUST, 14, V.C.S. NAGAR, G.N. MILLS POST, COIMBATORE-641 029, TAMIL NADU for establishment of S.N.S. COLLEGE OF TECHNOLOGY, SATHY ROAD, VIZHIYAMPALAYAM, KALAPPATTY POST, COIMBATORE - 641 035, TAMIL NADU for course(s) and intake as given below with specific condition that admission shall be made through the central counseling by the Government of TAMIL NADU only. In the event the establishment of the institutions having been operationalised, this approval is not valid unless AICTE specifically revalidates.

2. Approval is granted for the academic year 2002-03:

- Subject to the condition that the minimum number of academic days required in the session are fulfilled as per the university calendar.
- Subject to the condition that Government of Tamil Nadu considers their case for admission through central counseling for the session 2002-03, if not so the approval may be revalidated as per rules by the Council for the academic year 2003-04.

| COURSE(S)                 | INTAKE | LEVEL  | DURATION (YEARS) | PERIOD OF APPROVAL |
|---------------------------|--------|--------|------------------|--------------------|
| ELECTRONICS & COMM. ENGG. | 60.    | Degree | 4                | 2002-03            |
| COMPUTER SCIENCE & ENGG.  | 60.    | Degree | 4                | 2002-03            |
| INFORMATION TECHNOLOGY    | 60.    | Degree | 4                | 2002-03            |
| Total                     | 180    |        |                  |                    |

This approval has been accorded subject to fulfillment of general conditions and as per the Norms and Standards of the AICTE, and also specific conditions (Annexure I).

The attention of the management is drawn to the fact that the approval given now is only for one academic session before the end of which an expert committee shall visit to assess if the norms and standards as stipulated by AICTE are fulfilled, and only then will the continuation or otherwise shall be intimated.

Contd\2...

इंदिरा गांधी खेल परिसर इन्दिरा एस्टेट, नई दिल्ली - 110 002  
Indira Gandhi Sports Complex, I.P. Estate, New Delhi-110 002  
दूरभाष/Phone : 3392506,63-65,68,71,73-75 फैक्स/Fax : 011-3392554



The admission will be made in accordance with Regulations notified by the AICTE vide GSR 476(I) dated 20.05.1994 based on the Hon'ble Supreme Court Judgement dated 04.02.1993 with regard to WP(C) No. 607 of 1992 in the case of Unni Krishnan JP and other etc. V/s. State Government of Andhra Pradesh and others etc. and later judgements. No Management/Institute/Trust or Society shall announce admissions directly under any circumstances. Any action by the institute contrary to any provisions laid down by the Council and concerned State Government shall make it liable for actions.

In the event of infringement/contravention or non-compliance of the provisions of AICTE Regulations, Guidelines or the norms and standards as prescribed by the AICTE, the Council shall take further action to withdraw approval, and the liability arising out of such withdrawal of approval will be solely that of Management/Trust/Society and/or Institution.

The Council may inspect/ visit the Institution any time it may deem fit to verify the progress/ compliance.

You are requested to kindly monitor the progress made by this institution towards fulfilling the norms and standards prescribed by the Council and keep the concerned Regional Office and AICTE, New Delhi informed.

Yours faithfully,

(P.N. Razdan)

Copy to :

1. The Regional Officer, AICTE, Southern Regional Office, 26, Haddows Road, Chennai – 600 113.  
He is requested to monitor compliance with the Norms and Standards and conditions stipulated by the Council and keep the concerned Regional Committee and the AICTE informed of the same. He is also requested to ensure the receipt of notarized undertaking as specified by the Council from the institution/management concerned within the stipulate time frame.
2. The Registrar, Anna University, Chennai.  
He is requested to complete the process of affiliation for facilitating admissions.
3. The Principal, S.N.S. COLLEGE OF TECHNOLOGY, SATHY ROAD, VIZHIYAMPALAYAM, KALAPPATTY POST, COIMBATORE – 641 035, TAMIL NADU.  
(i) The institution should submit a notarized undertaking on non-judicial stamp paper as per format given in Annexure II to the concerned Regional Office, AICTE with a copy to the Headquarters, AICTE, New Delhi within one month from the date of receipt of this approval letter.  
(ii) The institution/management should also submit a notarized undertaking from the Governing Body to the concerned Regional Office, AICTE with a copy to Headquarters, AICTE, New Delhi and to the concerned State Government, that all the infrastructural and instructional facilities shall be in place as per the norms of AICTE prior to the admissions of any student for the academic year 2002-2003.
4. The Director of Technical Education, Govt. of Tamil Nadu, Chennai - 600 025.
5. Guard File.

(P.N. Razdan)  
Adviser (UG)

## A II CONFERMENT OF AUTONOMOUS STATUS BY UGC

अशोक कुमार डोगरा  
Ashok K. Dogra

वित्तीय सलाहकार एवं  
संयुक्त सचिव  
Financial Adviser &  
Joint Secretary



BY SPEED POST

दूरभाष PHONE : कार्यालय OFF : 23232055  
फैक्स FAX : 23219716

विश्वविद्यालय अनुदान आयोग  
बहादुर शाह जफर मार्ग, नई दिल्ली - 110 002  
UNIVERSITY GRANTS COMMISSION  
Bahadur Shah Zafar Marg, New Delhi-110 002  
E-mail : akdogra@ugc.ac.in

No.F. 22-I/2012(AC)

Aug, 2012

11 7 AUG 2012

The Registrar,  
Anna University of Technology,  
Coimbatore, Mettupalayam Road  
Jothipuram Post  
Coimbatore – 641 047

Sub:- Conferment of fresh Autonomous Status to SNS College of Technology, Sathy Road, NH 209, Coimbatore – 641 035 (Tamil Nadu) affiliated to Anna University of Technology, Coimbatore – 641 047.

Sir,

This has reference to the proposal date -- submitted by SNS College of Technology, Sathy Road, NH-209, Coimbatore – 641 035 (Tamil Nadu) under the UGC scheme for conferment of fresh autonomous status and subsequent visit of the UGC Expert committee to consider the proposal on 26<sup>th</sup> and 27<sup>th</sup> April 2012.

The report of the aforesaid Joint UGC Expert Committee was placed before the Standing Committee constituted for the purposes by the Commission to look into the Expert Committee reports for conferment of fresh autonomous status and extension of autonomy to colleges before its recommendations are placed before the Commission for its final approval.

The recommendations of the Standing Committee were placed before the Commission at its meeting held on 18<sup>th</sup> & 19<sup>th</sup> July, 2012. The Commission, after taking due consideration of the recommendations of the Standing Committee, agreed to grant autonomous status to SNS College of Technology, Sathy Road, NH-209, Coimbatore – 641 035 (Tamil Nadu) under the UGC autonomous colleges scheme for a period of six year w.e.f. the academic year i.e. 2012-2013 to 2017-2018.

The Anna University of Technology, Coimbatore, Mettupalayam Road, Jothipuram Post Coimbatore may now go ahead and issue necessary orders in this regard by endorsing a copy of the same to this office for our records. The admissible grant under this scheme will be released to the College as per its eligibility, according to the norms as laid down in the XIth Plan Guidelines for Autonomous Colleges by the Joint Secretary, UGC South Eastern Regional Office, PB No. 152, APSFC Building, 4<sup>th</sup> Floor, 5-9-194, Chirag Ali Lane, Hyderabad - 500 001.

Yours faithfully,

(A.K. Dogra)

Contd.,

J.C. 01  
20/8/12  
J



Copy to:-

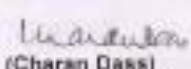
1. The Principal Secretary, (Higher Education) Govt. of Tamilnadu, N.K.M. Building, 6<sup>th</sup> Floor, Secretariat, Chennai – 600 009 (Tamilnadu).
2. The Dean, Anna University of Technology, Coimbatore, Mettupalayam Road, Jothipuram Post, Coimbatore – 641 047
3. The Joint Secretary, UGC South Eastern Regional Office, PB No. 152, APSIC Building, 4<sup>th</sup> Floor, 5-9-194, Chirag Ali Lane, Hyderabad - 500 001.
- ✓ 4. The Principal, SNS College of Technology, Sathy Road, NH - 209, Coimbatore – 641 035 (Tamil Nadu).  
(A copy of the Expert Committee report is also enclosed for your information and guidance.)
5. The Under Secretary, BSR Section, UGC, New Delhi.
6. Meeting Cell.
7. Concerned file
8. Guard File.

  
(Lalitha Ganesan)  
Under Secretary

### A III RECOGNITION OF COLLEGE UNDER SECTION 2(f) OF THE UGC ACT 1956

| <p>Ph. 23236351, 23232701, 23237721<br/>23234116, 23235733, 23232317<br/>23236735, 23239437, 23239627</p> <p>UGC Website: <a href="http://www.ugc.ac.in">www.ugc.ac.in</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <p>विश्वविद्यालय अनुदान आयोग<br/>बहादुरशाह जफर मार्ग<br/>नई दिल्ली-110 002</p> <p>UNIVERSITY GRANTS COMMISSION<br/>BAHADURSHAH ZAFAR MARG<br/>NEW DELHI-110 002</p>                                                         |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>SPEED POST</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                   | <p>August, 2009</p>                                                                                                                                                                                                         |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |
| <p>F. No.8-121/2009 (CPP-I)</p> <p>The Registrar,<br/>Anna University<br/><u>Coimbatore, T.N.</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                   |                                                                                                                                                                                                                             |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |
| <p>Sub:- Recognition of College under Section 2 (f) of the UGC Act, 1956.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   |                                                                                                                                                                                                                             |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |
| <p>Sir,</p> <p>I am directed to refer to <sup>the</sup> <del>your</del> letter no. SNSCT/UGC/568/2008-09 dated 26-05-2009 received from the Principal, SNS College of Technology, Sathy Main Road (NH 209), Vazhiyampalayam, Coimbatore, Tamil Nadu on the subject cited above and to say that the following College has been recognized by UGC in term of the rules framed under Section 2 (f) of the UGC Act, 1956 under the head Non Government Colleges teaching upto Post Graduate Degree:-</p>                                                                                                                                                                                                                                                                                                                                                                      |                                                                                   |                                                                                                                                                                                                                             |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Name of the College</th> <th style="width: 20%;">Year of Establishment</th> <th style="width: 40%;">Remarks</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <p>SNS College of Technology,<br/>Sathy Main Road (NH 209),<br/>Vazhiyampalayam, Coimbatore –<br/>641 035 Tamil Nadu</p> <p>(On temporary affiliation)</p> </td> <td style="text-align: center; vertical-align: top;"> <p>2002</p> </td> <td style="vertical-align: top;"> <p>The College is <u>not</u> eligible to receive Central assistance under Section 12 (B) of the UGC Act, 1956 as the UGC has not yet finalized the details to provide financial assistance to "Self Financed Colleges".</p> </td> </tr> </tbody> </table>                                               |                                                                                   |                                                                                                                                                                                                                             | Name of the College | Year of Establishment | Remarks | <p>SNS College of Technology,<br/>Sathy Main Road (NH 209),<br/>Vazhiyampalayam, Coimbatore –<br/>641 035 Tamil Nadu</p> <p>(On temporary affiliation)</p> | <p>2002</p> | <p>The College is <u>not</u> eligible to receive Central assistance under Section 12 (B) of the UGC Act, 1956 as the UGC has not yet finalized the details to provide financial assistance to "Self Financed Colleges".</p> |
| Name of the College                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Year of Establishment                                                             | Remarks                                                                                                                                                                                                                     |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |
| <p>SNS College of Technology,<br/>Sathy Main Road (NH 209),<br/>Vazhiyampalayam, Coimbatore –<br/>641 035 Tamil Nadu</p> <p>(On temporary affiliation)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>2002</p>                                                                       | <p>The College is <u>not</u> eligible to receive Central assistance under Section 12 (B) of the UGC Act, 1956 as the UGC has not yet finalized the details to provide financial assistance to "Self Financed Colleges".</p> |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |
| <p>The Indemnity Bond and other supporting documents submitted in respect of the above College have been accepted by the Commission.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                   |                                                                                                                                                                                                                             |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |
| <p>Yours faithfully,</p> <p style="margin-left: 100px;">(S.C.Chadha)<br/>Deputy Secretary</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   |                                                                                                                                                                                                                             |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |
| <p><b>Copy forwarded to:-</b></p> <ol style="list-style-type: none"> <li>1 ✓ The Principal, SNS College of Technology, Sathy Main Road (NH 209), Vazhiyampalayam, Coimbatore, Tamil Nadu</li> <li>2 The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary Education &amp; Higher Education, Shastri Bhavan, New Delhi-110 001.</li> <li>3 The Secretary to the Government of Tamil Nadu, Department of Higher Education, Chennai. (Tamilnadu).</li> <li>4 The Joint Secretary, UGC, South Eastern Regional Office, P.B. No. 152, A.P.S.F.C. Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad - 500 001 (A.P).</li> <li>5 Publication Officer, (UGC-Website), New Delhi</li> <li>6 Section Officer (F.D.-III Section) U.G.C., New Delhi.</li> <li>7 All Sections, U.G.C, New Delhi.</li> <li>8 Guard file.</li> </ol> |                                                                                   |                                                                                                                                                                                                                             |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |
| <p style="margin-left: 100px;">(Sunita Gulati)<br/>Section Officer</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   |                                                                                                                                                                                                                             |                     |                       |         |                                                                                                                                                            |             |                                                                                                                                                                                                                             |

# **A IV RECOGNITION OF COLLEGE UNDER SECTION 12(B) OF THE UGC ACT 1956**

| <p>Ph: 23236351, 23232701, 23237721<br/>23234116, 23235733, 23232317<br/>23236735, 23239437, 23239627</p> <p>Extension No. 413 (CPP-I Colleges)<br/>UGC Website: <a href="http://www.ugc.ac.in">www.ugc.ac.in</a></p> <p>F. No. 8-121/2009 (CPP-I/C)</p> <p>The Registrar,<br/>Anna University<br/>Sardar Patel Road, Chennai - 600 025<br/>Tamil Nadu</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <br><b>डाक-विभाग विमुक्तये</b><br><b>SPEED POST</b> | <p>विश्वविद्यालय अनुदान आयोग<br/>बहादुरशाह जफर मार्ग<br/>नई दिल्ली-110 002<br/>UNIVERSITY GRANTS COMMISSION<br/>BAHADURSHAH ZAFAR MARG<br/>NEW DELHI-110 002</p> <p style="text-align: right;">August, 2015</p> <p style="text-align: right; font-size: 1.2em;">23 AUG 2015</p>                                                                                    |                     |                       |         |                                                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------|---------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Sub: - Declaring a College fit to receive Central Assistance under Section 12 (B) of the UGC Act, 1956.</b></p> <p>Sir,</p> <p>I am directed to refer to the letter no. SNSCT/UGC/13805/2015-2016 dated 08.07.2015 received from the Principal, SNS College of Technology, Sathy Main Road, SNS Kalvi Nagar, Saravanampatti Post, Coimbatore - 641 035, Tamil Nadu on the above subject and to say that it is noted that the following college is <u>un-aided/self financed and permanently affiliated to Anna University, Chennai. The college is already included under Section 2 (f) of the UGC Act, 1956 vide this office letter of even No. dated 20.08.2009.</u> I am further to say that the name of the following college has been included in the list of colleges prepared under Section 12 (B) of the UGC Act, 1956 under the head 'Non-Government, self financed College teaching upto Bachelor's Degree' -</p>                                                                                                                                |                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                    |                     |                       |         |                                                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                    |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">Name of the College</th> <th style="width: 15%;">Year of Establishment</th> <th style="width: 50%;">Remarks</th> </tr> </thead> <tbody> <tr> <td>SNS College of Technology, Sathy Main Road, SNS Kalvi Nagar, Saravanampatti Post, Coimbatore - 641 035, Tamil Nadu.</td> <td style="text-align: center;">2002</td> <td>The College is now declared fit to receive Central assistance in terms of Rules framed under Section 12 (B) of the UGC Act, 1956. However, the College, being a self financing &amp; unaided, would be eligible to receive UGC's support only in respect of teachers &amp; students related schemes as per the decision of the Commission dated 8<sup>th</sup> July 2011.</td> </tr> </tbody> </table>                                                                                                                                                                                                                           |                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                    | Name of the College | Year of Establishment | Remarks | SNS College of Technology, Sathy Main Road, SNS Kalvi Nagar, Saravanampatti Post, Coimbatore - 641 035, Tamil Nadu. | 2002 | The College is now declared fit to receive Central assistance in terms of Rules framed under Section 12 (B) of the UGC Act, 1956. However, the College, being a self financing & unaided, would be eligible to receive UGC's support only in respect of teachers & students related schemes as per the decision of the Commission dated 8 <sup>th</sup> July 2011. |
| Name of the College                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Year of Establishment                                                                                                                | Remarks                                                                                                                                                                                                                                                                                                                                                            |                     |                       |         |                                                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                    |
| SNS College of Technology, Sathy Main Road, SNS Kalvi Nagar, Saravanampatti Post, Coimbatore - 641 035, Tamil Nadu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2002                                                                                                                                 | The College is now declared fit to receive Central assistance in terms of Rules framed under Section 12 (B) of the UGC Act, 1956. However, the College, being a self financing & unaided, would be eligible to receive UGC's support only in respect of teachers & students related schemes as per the decision of the Commission dated 8 <sup>th</sup> July 2011. |                     |                       |         |                                                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                    |
| <p>The documents submitted in respect of the above College have been accepted by the University Grants Commission.</p> <p style="text-align: right;">Yours faithfully,</p> <div style="text-align: right; margin-top: 10px;"> <br/> <b>(Charan Dass)</b><br/>             Under Secretary           </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                    |                     |                       |         |                                                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                    |
| <p>Copy to -</p> <ol style="list-style-type: none"> <li>✓ 1. The Principal, SNS College of Technology, Sathy Main Road, SNS Kalvi Nagar, Saravanampatti Post, Coimbatore - 641 035, Tamil Nadu.</li> <li>2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi - 110 001.</li> <li>3. The Secretary, Higher Education Deptt. Government of Tamilnadu, Secretariat, Chennai - 600 009, (Tamil Nadu).</li> <li>4. The Joint Secretary, UGC, South Eastern Regional Office (SERO), P.B. No. 152, A.P.S.F.C. Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad - 500 001, (Andhra Pradesh).</li> <li>5. Publication Officer (UGC-Website), New Delhi.</li> <li>6. Section Officer (FD-III Section), UGC, New Delhi.</li> <li>7. Guard file.</li> </ol> <div style="text-align: right; margin-top: 20px;"> <br/> <b>(Charan Dass)</b><br/>             Under Secretary           </div> |                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                    |                     |                       |         |                                                                                                                     |      |                                                                                                                                                                                                                                                                                                                                                                    |



# A V AICTE APPROVAL ORDER 2016-17



**All India Council for Technical Education**  
(A Statutory body under Ministry of HRD, Govt. of India)  
7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

F.No. Southern/1-2811192265/2016/EOA/Corrigendum-1

Date: 19-May-2016

## Corrigendum

To,  
The Principal Secretary  
(Higher Education) Govt. of Tamil Nadu,  
N. K. M. Bld, 6th Floor Secretariat,  
Chennai-600009

Subj: Extension of approval for the academic year 2016-17.

Ref: Application of the Institution for Extension of Approval for the Year 2016-17

|                |                                                    |             |
|----------------|----------------------------------------------------|-------------|
| EOA Issued on  | F.No. Southern/1-2811192265/2016/EOA               | 25-Apr-2016 |
| EOA Printed on | F.No. Southern/1-2811192265/2016/EOA               | 19-May-2016 |
| Corrigendum 1  | F.No. Southern/1-2811192265/2016/EOA/Corrigendum-1 | 19-May-2016 |

Sir/Madam,

In partial modification of the letter F.No. Southern/1-2811192265/2016/EOA and in terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

|                           |                           |                       |                                                                                                                      |
|---------------------------|---------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| Regional Office           | Southern                  | Application Id        | 1-2811192265                                                                                                         |
| Name of the Institute     | SNS COLLEGE OF TECHNOLOGY | Permanent Id          | 1-2494751                                                                                                            |
| Name of the Society/Trust | SRS SNS CHARITABLE TRUST  | Institute Address     | SATHY MAIN ROAD, VAZHIVAMPALAYAM<br>SARAVANAMPATTI POST<br>COIMBATORE, COIMBATORE, COIMBATORE,<br>Tamil Nadu, 641025 |
| Institute Type            | Unaided - Private         | Society/Trust Address | 14, VCS NAGAR, GN MILLS POST, COIMBATORE -<br>641 029, COIMBATORE, COIMBATORE, Tamil<br>Nadu, 641029                 |

|                                                     |                |                          |                |                          |                |
|-----------------------------------------------------|----------------|--------------------------|----------------|--------------------------|----------------|
| Opted for change from Women to Co-ed and Vice versa | No             | Opted for change of name | No             | Opted for change of site | No             |
| Change from Women to Co-ed approved and Vice versa  | Not Applicable | Change of name Approved  | Not Applicable | Change of site Approved  | Not Applicable |

Application Number: 1-2811192265  
Note: This is a Computer generated Report.No signature is required.  
Printed By : ae1736471

Page 1 of 5  
Letter Printed On:25 May 2016



**All India Council for Technical Education**  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

To conduct following courses with the intake indicated below for the academic year 2016-17\*

| Application ID: 1-2011162265 |           |               | Course                           | Full-time | Affiliating Body         | Intake 2015-16 | Intake Approved for 2016-17 | AICTE Approval status | PGD / PHE / GATE / Qual. Approval status | Foreign Collaboration / Training Program Approval status |
|------------------------------|-----------|---------------|----------------------------------|-----------|--------------------------|----------------|-----------------------------|-----------------------|------------------------------------------|----------------------------------------------------------|
| Program                      | Shift     | Level         |                                  |           |                          |                |                             |                       |                                          |                                                          |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | COMMUNICATION SYSTEMS            | FULL TIME | Anna University, Chennai | 18             | 18                          | NA                    | NA                                       | NA                                                       |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | COMPUTER SCIENCE AND ENGINEERING | FULL TIME | Anna University, Chennai | 18             | 18                          | NA                    | NA                                       | NA                                                       |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | INFORMATION TECHNOLOGY           | FULL TIME | Anna University, Chennai | 18             | 18                          | NA                    | NA                                       | NA                                                       |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | POWER SYSTEMS ENGINEERING        | FULL TIME | Anna University, Chennai | 18             | 18                          | NA                    | NA                                       | NA                                                       |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | SOFTWARE ENGINEERING             | FULL TIME | Anna University, Chennai | 18             | 18                          | NA                    | NA                                       | NA                                                       |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | STRUCTURAL ENGINEERING           | FULL TIME | Anna University, Chennai | 18             | 18                          | NA                    | NA                                       | NA                                                       |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | THERMAL ENGINEERING              | FULL TIME | Anna University, Chennai | 18             | 18                          | NA                    | NA                                       | NA                                                       |
| ENGINEERING AND TECHNOLOGY   | 1st Shift | POST GRADUATE | VLSI DESIGN                      | FULL TIME | Anna University, Chennai | 18             | 18                          | NA                    | NA                                       | NA                                                       |
|                              | 1st       | UND           | AERONAUTICAL                     | FULL      | Anna                     | 60             | 60                          | NA                    | NA                                       | NA                                                       |

Application Number: 1-2011162265

Note: This is a Computer generated Report. No signature is required.

Printed By : aw1736471

Page 2 of 5

Letter Printed On: 26 May 2016



**All India Council for Technical Education**  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

|                            |           |               |                                             |           |                          |     |     |    |    |    |
|----------------------------|-----------|---------------|---------------------------------------------|-----------|--------------------------|-----|-----|----|----|----|
| ENGINEERING AND TECHNOLOGY | Shift     | UNDERGRADUATE | TECHNICAL ENGINEERING                       | FULL TIME | Anna University, Chennai |     |     |    |    |    |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | AGRICULTURE ENGINEERING                     | FULL TIME | Anna University, Chennai | 0   | 60  | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | AUTOMOBILE ENGINEERING                      | FULL TIME | Anna University, Chennai | 60  | 60  | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | BIOMEDICAL ENGINEERING                      | FULL TIME | Anna University, Chennai | 0   | 60  | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | CIVIL ENGINEERING                           | FULL TIME | Anna University, Chennai | 60  | 60  | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | CIVIL ENGINEERING & PLANNING                | FULL TIME | Anna University, Chennai | 0   | 60  | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | COMPUTER SCIENCE AND ENGINEERING            | FULL TIME | Anna University, Chennai | 180 | 180 | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | ELECTRICAL AND ELECTRONICS ENGINEERING      | FULL TIME | Anna University, Chennai | 60  | 60  | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | ELECTRONICS AND INSTRUMENTATION ENGINEERING | FULL TIME | Anna University, Chennai | 60  | 60  | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | ELECTRONICS & COMMUNICATION ENGINEERING     | FULL TIME | Anna University, Chennai | 180 | 180 | NA | NA | NA |

Application Number: 1-2811192265

Note: This is a Computer generated Report.No signature is required.  
Printed By : ae1736471

Page 3 of 5  
Letter Printed On: 25 May 2016



**All India Council for Technical Education**  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

|                            |           |               |                                       |           |                          |     |     |    |    |    |
|----------------------------|-----------|---------------|---------------------------------------|-----------|--------------------------|-----|-----|----|----|----|
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | INFORMATION TECHNOLOGY                | FULL TIME | Anna University, Chennai | 60  | 60  | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | MECHANICAL AND AUTOMATION ENGINEERING | FULL TIME | Anna University, Chennai | 0   | 60  | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | MECHANICAL ENGINEERING                | FULL TIME | Anna University, Chennai | 180 | 180 | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDERGRADUATE | MECHATRONICS                          | FULL TIME | Anna University, Chennai | 60  | 60  | NA | NA | NA |
| MANAGEMENT                 | 1st Shift | POSTGRADUATE  | BUSINESS ADMINISTRATION               | FULL TIME | Anna University, Chennai | 120 | 120 | NA | NA | NA |
| MCA                        | 1st Shift | POSTGRADUATE  | MASTERS IN COMPUTER APPLICATIONS      | FULL TIME | Anna University, Chennai | 60  | 60  | NA | NA | NA |

\*Corrigendum for- 1. New Course/Increase in intake

The above mentioned approval is subject to the condition that SNS COLLEGE OF TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)

**Prof. Alok Prakash Mittal**  
Member Secretary, AICTE

Application Number: 1-2011162285  
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Page 4 of 5  
Letter Printed On:26 May 2016



**All India Council for Technical Education**  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
Shastri Bhawan 25, Haddows Road  
Chennai - 600 006, Tamil Nadu
2. **The Director Of Technical Education,**  
Tamil Nadu
3. **The Principal / Director,**  
SNS COLLEGE OF TECHNOLOGY  
SATHY MAIN ROAD, VAZHIYAMPALAYAM  
SARAVANAMPATTI POST  
COIMBATORE,  
COIMBATORE,COIMBATORE,  
Tamil Nadu,641035
4. **The Secretary / Chairman,**  
SRI SNS CHARITABLE TRUST  
14, VCS NAGAR, GN MILLS POST, COIMBATORE - 641 029,  
COIMBATORE,COIMBATORE,  
Tamil Nadu,641029
5. **Guard File(AICTE)**

Application Number: 1-2011162255

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Page 5 of 5

Letter Printed On:26 May 2016



# A VI AU AFFILIATION ORDER 2016-17



**ANNA UNIVERSITY**  
CHENNAI - 600 025, INDIA

Phone : (O) 22352161, 22357004

Fax : 91-44-2235 1956

Gram : ANNATECH

E-mail : registrar@annauniv.edu

REGISTRAR

Lr.No.136/CAI/AU/2017

Date: 04.04.2017

## TO WHOM IT MAY CONCERN

This is to certify that **SNS College of Technology, SNS Kalvi Nagar, Vazhiyampalayam, Saravanampatti Post, Coimbatore-641035** was established in 2002 and Affiliated to Anna University, Chennai - 600 025 since 2002.

The College is recognized by the University Grants Commission under section 2(f) of the UGC Act, 1956 in the year 2009, section 12(B) of the UGC Act, 1956 in the year 2015 and as an Autonomous Institution in the academic 2013-2014 year.

The following courses are taught in the said college as per approval

| Sl. No.                | Name of the Course(s) and Duration (Intake)                      | Affiliation           | Period of Validity for the year |
|------------------------|------------------------------------------------------------------|-----------------------|---------------------------------|
|                        |                                                                  | Permanent / Temporary |                                 |
| UNDER GRADUATE COURSES |                                                                  |                       |                                 |
| 1.                     | B.E. - Computer Science and Engineering (180) - 4 Years          | Permanent             | 2013-14 onwards                 |
| 2.                     | B.E. - Electronics and Communication Engineering (180) - 4 Years | Permanent             | 2013-14 onwards                 |
| 3.                     | B.Tech. - Information Technology (60) - 4 Years                  | Permanent             | 2013-14 onwards                 |
| 4.                     | B.E. - Electrical and Electronics Engineering (60) - 4 Years     | Permanent             | 2015-16 onwards                 |
| 5.                     | B.E.- Aeronautical Engineering (60) - 4 Years                    | Temporary             | 2016-17                         |
| 6.                     | B.E.- Automobile Engineering (60) - 4 Years                      | Temporary             | 2016-17                         |
| 7.                     | B.E.- Civil Engineering (60) - 4 Years                           | Temporary             | 2016-17                         |
| 8.                     | B.E.- Electronics and Instrumentation Engineering (60) - 4 Years | Temporary             | 2016-17                         |
| 9.                     | B.E.- Mechanical Engineering (180) - 4 Years                     | Temporary             | 2016-17                         |
| 10.                    | B.E.- Mechatronics Engineering (60) - 4 Years                    | Temporary             | 2016-17                         |
| 11.                    | B.E.- Bio-Medical Engineering (60) - 4 Years                     | Temporary             | 2016-17                         |
| 12.                    | B.E.- Mechanical and Automation Engineering (60) - 4 Years       | Temporary             | 2016-17                         |
| 13.                    | B.E.- Agriculture Engineering (60) - 4 Years                     | Temporary             | 2016-17                         |
| 14.                    | B.E.- Civil Engineering and Planning (60) - 4 Years              | Temporary             | 2016-17                         |
| POST GRADUATE COURSES  |                                                                  |                       |                                 |
| 1.                     | M.E. - Computer Science and Engineering (18) - 2 Years           | Permanent             | 2015-16 onwards                 |
| 2.                     | M.B.A. - Master of Business Administration (120) - 2 Years       | Permanent             | 2015-16 onwards                 |
| 3.                     | M.E. - Communication Systems (18) - 2 Years                      | Temporary             | 2016-17                         |
| 4.                     | M.E. - Power Systems Engineering (18) - 2 Years                  | Temporary             | 2016-17                         |
| 5.                     | M.E. - Software Engineering (18) - 2 Years                       | Temporary             | 2016-17                         |
| 6.                     | M.E. - Structural Engineering (18) - 2 Years                     | Temporary             | 2016-17                         |
| 7.                     | M.E. - Thermal Engineering (18) - 2 Years                        | Temporary             | 2016-17                         |
| 8.                     | M.E. - VLSI Design (18) - 2 Years                                | Temporary             | 2016-17                         |
| 9.                     | M.Tech. - Information Technology (18) - 2 Years                  | Temporary             | 2016-17                         |
| 10.                    | M.C.A. Master of Computer Applications (60) - 3 Years            | Temporary             | 2016-17                         |

*[Signature]*  
REGISTRAR  
ANNA UNIVERSITY

## VII AU PhD RESEARCH CENTRE RECOGNITION



Dr. R. JAYAVEL  
DIRECTOR

**CENTRE FOR RESEARCH**  
ANNA UNIVERSITY  
CHENNAI - 600 025



Telephone : +91-44-2235 7386/2235 0361  
Fax : +91-44-2235 1213  
Email : [cfresearch@annauniv.edu](mailto:cfresearch@annauniv.edu)  
[cfresearch@gmail.com](mailto:cfresearch@gmail.com)



Date : 17.02.2016

Lr.No. 2663/IR/AR1

To

The Principal

SNS College of Technology

SNS Kalvi Nagar Sathy Main Road Saravanampatti Post Coimbatore 641035

Sir/Madam,

*Director*  
*Dean/Civil*  
*Blue*

Sub : Anna University - Research centre recognition - Department of  
Civil Engineering - Renewal - Orders - Issued.

\*\*\*\*\*

I am to inform that the recognition of the Department of Civil Engineering of your Institution has been renewed up to December 2018 as per "Common Renewal Session" to do collaborative research programme with this University.

The recognized supervisors working in the above Department may be permitted to guide candidates to carry out Ph.D./M.S. (By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph. D. Degree in the broad area of research.

In all future correspondence quote "4266305" for reference.

The next renewal application in the prescribed format available in our website: [cf.annauniv.edu](http://cf.annauniv.edu) along with the number of papers published in SCI Journals during the recognized period shall be made during **December 2018** with a renewal fee.

Yours faithfully,

*R. Jayavel*  
DIRECTOR

*17/2/2016*



Dr. R. JAYAVEL  
DIRECTOR

**CENTRE FOR RESEARCH**  
ANNA UNIVERSITY  
CHENNAI - 600 025



Telephone : +91-44-2258 1366/2258 0361  
Fax : +91-44-2258 1213  
Email : [cfresearch@annauniv.edu](mailto:cfresearch@annauniv.edu)  
[cfresearch@gmail.com](mailto:cfresearch@gmail.com)



Date : 17.02.2016

Lr.No. 2663/IR/Mechanical/AR1

To

The Principal  
SNS College of Technology  
SNS Kalvi Nagar Sathy Main Road Saravanampatti Post Coimbatore 641035

*Director*  
*1702/2016*  
*Ch*

Sir/Madam,

Sub : Anna University - Research centre recognition - Department of  
Mechanical Engineering - Renewal - Orders - Issued.

\*\*\*\*\*

I am to inform that the recognition of the Department of Mechanical Engineering of your Institution has been renewed up to December 2018 as per "Common Renewal Session" to do collaborative research programme with this University.

The recognized supervisors working in the above Department may be permitted to guide candidates to carry out Ph.D./M.S. (By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph. D. Degree in the broad area of research.

In all future correspondence quote "4266317" for reference.

The next renewal application in the prescribed format available in our website: [cfresearch.annauniv.edu](http://cfresearch.annauniv.edu) along with the number of papers published in SCI Journals during the recognized period shall be made during December 2018 with a renewal fee.

Yours faithfully,

*R. Jayavel*  
DIRECTOR

*17/2/2016*





Dr. R. JAYAVEL  
DIRECTOR

**CENTRE FOR RESEARCH**  
ANNA UNIVERSITY  
CHENNAI - 600 025



Telephone : +91-44-2256 7355/2225 9361  
Fax : +91-44-2225 1213  
Email : [dirresearch@annauniv.edu](mailto:dirresearch@annauniv.edu)  
[dirresearch@gmail.com](mailto:dirresearch@gmail.com)



Lr.No. 2663/IR/CSE/AR1

Date : 05.03.2016

To

The Principal

SNS College of Technology, Coimbatore - 641035.

Sir/Madam,

*Handwritten notes:*  
• AD/O.S.  
• DEAN/CSE.  
• DIRECTOR  
Date 23/3/16

Sub : Anna University - Research centre recognition - Department of  
Department of Computer Science and Engineering - Renewal - Orders -  
Issued.

I am to inform that the recognition of the Department of Department of Computer Science and Engineering of your institution has been renewed up to December 2018 as per "Commons Renewal Session" to do collaborative research programme with this University.

The recognized supervisors working in the above Department may be permitted to guide candidates to carry out Ph.D./M.S. (By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph. D. Degree in the broad area of research.

In all future correspondence quote "4266314" for reference.

The next renewal application in the prescribed format available in our website: [cfr.annauniv.edu](http://cfr.annauniv.edu) along with the number of papers published in SCI Journals during the recognized period shall be made during December 2016 with a renewal fee.

Yours faithfully,

*Handwritten signature of Dr. R. Jayavel*  
DIRECTOR



**Prof. USHA NATESAN, Ph.D.**  
DIRECTOR

**ANNA UNIVERSITY**  
**CENTRE FOR RESEARCH**  
Sardar Patel Road  
Chennai - 600 025, India

Lr. No.726/IR/EEE/ARI

Date: 21.08.2014

To  
The Principal  
SNS College of Technology  
Sathy Main Road, Saravanampatti  
Coimbatore - 641 035.

- Director  
- Dean / EEE  
- P.T.O.S.  
- 21/8  
23/8/14

Sir/Madam,

Sub: Ph.D. / M.S. (By Research) Programme –Recognition as research Department  
– Orders - Communicated.

\*\*\*\*\*

I am by direction to inform that the Department of Electrical and Electronics Engineering of your Institution has been recognized as a research centre with effect from 12.08.2014. The faculty members of this department can interact with Anna University for collaborative research for the purpose of pursuing Ph.D. / M.S. (By Research) programmes.

The recognized supervisors working in the above department may be permitted to guide the candidates to carryout Ph.D./M.S.(By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph.D. Degree in the broad area of research.

The next renewal application in the prescribed format available in our website: [cfrr.annauniv.edu](http://cfrr.annauniv.edu) along with the number of papers published in SCI journals during the recognized period shall be made during **June 2017** (as per Common Renewal Session) on fulfilling the norms with a renewal fee.

Yours faithfully,

*Usha Natesan*

DIRECTOR

21/8

## A VIII NBA ACCREDITATION CERTIFICATE

### NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4<sup>th</sup> Floor, Bhisham Pitamah Marg,  
Pragati Vihar, New Delhi-110 003  
Tel: +91 11 2436 0620-22, 2436 0654 Telefax: +91 11 2436 0682  
Website: www.nbaiind.org



Dated: 08-07-2016

F.No. 33-211/2010/NBA

To,

The Principal,  
SNS College of Technology  
SNS Kalvi Nagar, Saravanampatti Post  
Coimbatore-641035  
Tamil Nadu

Subject : Accreditation status of UG Engineering program(s) offered by SNS College of Technology, SNS Kalvi Nagar, Saravanampatti Post Coimbatore-641035, Tamil Nadu, granted provisional accreditation for 2 years w.e.f. 01-07-2014 Tier II format.

Sir,  
This has reference to NBA's letter of even number dated 07-11-2014 under which some of the UG Engineering program(s) offered by your Institution were granted accreditation in Tier II by National Board of Accreditation.

2. National Board of Accreditation (NBA) has now decided that in all cases where UG Engineering program(s) of an Institution were granted provisional accreditation for a period of 2 years w.e.f. 01-01-2014/01-07-2014 in Tier I/Tier II format, the period of provisional accreditation of these program(s) shall be extended from 2 to 3 years subject to the condition that they meet the essential Pre-visit qualifiers. The Pre-visit qualifiers submitted by SNS College of Technology, SNS Kalvi Nagar, Saravanampatti Post Coimbatore-641035, Tamil Nadu have been considered and approved by NBA in respect of the following UG Engineering program(s). Accordingly, the competent authority in NBA has approved the following accreditation status to the program(s) as given in the Table below:

| Sl. No. | Name of the Program (UG)                | Basis of Evaluation | Accreditation Status     | Period of extended validity                     | Remarks                                                                                                                                                       |
|---------|-----------------------------------------|---------------------|--------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1)     | (2)                                     | (3)                 | (4)                      | (5)                                             | (6)                                                                                                                                                           |
| 1.      | Computer Science and Engineering        | Tier-II Document    | Provisionally Accredited | Academic Year 2016-2017, i.e., upto 30-06-2017. | Accreditation status granted is valid for the period indicated in col.5 or till the program has the approval of the competent authority, whichever is earlier |
| 2.      | Information Technology                  |                     | Provisionally Accredited |                                                 |                                                                                                                                                               |
| 3.      | Mechanical Engineering                  |                     | Provisionally Accredited |                                                 |                                                                                                                                                               |
| 4.      | Electronics & Communication Engineering |                     | Provisionally Accredited |                                                 |                                                                                                                                                               |
| 5.      | Electrical & Electronics Engineering    |                     | Provisionally Accredited |                                                 |                                                                                                                                                               |

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The program(s) have been granted provisional accreditation. SNS College of Technology, SNS Kalvi Nagar Saravanampatti Post Coimbatore-641035, Tamil Nadu should submit the Compliance Report at least six months before the expiry of validity of accreditation mentioned above to be eligible to be considered by the concerned Committee in NBA for further processing of the accreditation status. This could entail further extension of accreditation or a revisit, as deemed appropriate by NBA Committees.

*(Signature)*

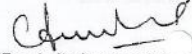
Contd./..



5. The accreditation status awarded to the program(s) as indicated in the above table does not imply that the accreditation has been granted to SNS College of Technology, SNS Kalvi Nagar, Saravanampatti Post Coimbatore 641035, Tamil Nadu as a whole. As such the Institution should nowhere along with its name, including on its letter head etc. write that it is accredited by NBA because NBA only accredits program(s), and not Institutions. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

6. The accreditation status of the above program(s) is subject to change on periodic review, as deemed necessary by the NBA. It is desired that the relevant information in respect of accredited program(s) as indicated in the Table in paragraph 2, appears on the website and information bulletin of your College/Institution.

7. The accreditation status awarded to the program(s) as indicated in Table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

Yours faithfully  
  
(Dr. Anil Kumar Nasad  
Member Secretary)

**Copy to:**

1. The Principal Secretary (Higher Education)  
Government of Tamil Nadu,  
N.K.M. Building, 6th Floor, Secretariat  
Chennai- 600 009
2. The Vice Chancellor  
Anna University, Guindy  
Chennai- 600025
3. The Commissioner  
Directorate of Technical Education  
Sardar Patel Road, Guindy,  
Chennai-600 025  
Tamil Nadu
4. Master Accreditation Folder of the State

## A IX NAAC ACCREDITATION CERTIFICATE







राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

## Quality Profile

Name of the Institution : SNS College of Technology

Place : Vazhiyampalayam, Coimbatore, Tamil Nadu

| Criteria                                  | Weightage<br>( $W_i$ )    | Criterion-Wise<br>Grade<br>Point Averages<br>( $Cr_i$ GPA) | $W_i \times Cr_i$ GPA                               |
|-------------------------------------------|---------------------------|------------------------------------------------------------|-----------------------------------------------------|
| I. Curricular Aspects                     | 050                       | 3.00                                                       | 150                                                 |
| II. Teaching-Learning and Evaluation      | 450                       | 3.00                                                       | 1350                                                |
| III. Research, Consultancy and Extension  | 100                       | 2.85                                                       | 285                                                 |
| IV. Infrastructure and Learning Resources | 100                       | 3.30                                                       | 330                                                 |
| V. Student Support and Progression        | 100                       | 3.00                                                       | 300                                                 |
| VI. Governance and Leadership             | 150                       | 3.13                                                       | 470                                                 |
| VII. Innovative Practices                 | 050                       | 2.60                                                       | 130                                                 |
| Total                                     | $\sum_{i=1}^7 W_i = 1000$ |                                                            | $\sum_{i=1}^7 (W_i \times Cr_i \text{ GPA}) = 3015$ |

$$\text{Institutional Score} = \frac{\sum_{i=1}^7 (W_i \times Cr_i \text{ GPA})}{\sum_{i=1}^7 W_i} = \frac{3015}{1000} = 3.02$$

Grade = A

Descriptor = VERY GOOD

Date : July 05, 2012



HARSHANATH  
Director

- This certification is valid for a period of Five years with effect from July 05, 2012.
- An Institutional CGPA on four point scale in the range of 3.01 - 4.00 denotes A grade (Very Good), 2.01 - 3.00 denotes B grade (Good), 1.51 - 2.00 denotes C grade (Satisfactory)
- Scores rounded off to the nearest Integer

## A X NAAC PEER TEAM REPORT

NAAC for Quality and Excellence in Higher Education

| PEER TEAM REPORT ON<br>INSTITUTION ACCREDITATION OF<br>SNS College of Technology              |                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Place : Coimbatore                                                                            | Dist.: Coimbatore                                                                                                                                                                                                                                                                                    |
| State : Tamil Nadu                                                                            |                                                                                                                                                                                                                                                                                                      |
| <b>SECTION : GENERAL</b>                                                                      | <b>Information</b>                                                                                                                                                                                                                                                                                   |
| 1.1 Name & Address of the Institute                                                           | SNS College of Technology<br>Sathy Main Road (NH-209), Vazhiyampalayam,<br>Saravanampatti Post, Coimbatore – 641035<br>Tamil Nadu                                                                                                                                                                    |
| 1.2 Year of Establishment :                                                                   | 2002                                                                                                                                                                                                                                                                                                 |
| 1.3 Current Academic Activities at the Institution (Numbers):                                 |                                                                                                                                                                                                                                                                                                      |
| • Faculties                                                                                   | 03 (Engineering, MCA, MBA)                                                                                                                                                                                                                                                                           |
| • Departments / Centres:                                                                      | 10                                                                                                                                                                                                                                                                                                   |
| • Programmes / Course offered :                                                               | UG-08, PG-09                                                                                                                                                                                                                                                                                         |
| • Permanent Faculty Members :                                                                 | M - 107, F - 110<br>Temporary: 00                                                                                                                                                                                                                                                                    |
| • Permanent Support Staff :                                                                   | 25 Non-Teaching + 44 Technical                                                                                                                                                                                                                                                                       |
| • Students :                                                                                  | UG-2235 PG-533                                                                                                                                                                                                                                                                                       |
| 1.4 Three major features in the Institutional Context (as perceived by the Peer Team)         | <ul style="list-style-type: none"> <li>Attempts to keep pace with contemporary technologies and hands on focus in Engineering education.</li> <li>Good infrastructural facilities</li> <li>Institution in rural setting intending to provide opportunity to economically weaker students.</li> </ul> |
| 1.5 Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure) : | 22 <sup>nd</sup> – 23 <sup>rd</sup> May, 2012                                                                                                                                                                                                                                                        |
| 1.6 Composition of the Peer Team which undertook the on-site visit :                          |                                                                                                                                                                                                                                                                                                      |
| Chairperson :                                                                                 | Prof. Om Vikas<br>(Former Director, ABV-IITM, Gwalior)<br>C-15, Tarang apartments<br>19, IP Extension, Mother Dairy Road,<br>New Delhi – 110 092.<br><a href="mailto:dr.omvikas@gmail.com">dr.omvikas@gmail.com</a>                                                                                  |

1

NAAC for Quality and Excellence in Higher Education

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Member Coordinator :                            | Dr. J. B. Naik<br>Professor,<br>University Department of Chemical Technology,<br>North Maharashtra University, Jalgaon – 425 001.<br><a href="mailto:jitunaik@gmail.com">jitunaik@gmail.com</a>                                                                                                                                                                                                                                                                                                                                                               |
| Member:                                         | Prof. (Dr.) Sanjay M. Shah<br>Director<br>S.V. Institute of Computer Studies<br>Sarva Vidhyalay Campus,<br>Opp. Railway Station, Kadi-382715, Gujarat<br><a href="mailto:prof_smshah@yahoo.com">prof_smshah@yahoo.com</a>                                                                                                                                                                                                                                                                                                                                     |
| NAAC Officer :                                  | Dr. Jagannath Patil<br>Deputy Adviser, NAAC<br>P. O. Box 1075, Nagarbhavi,<br>Bangalore – 560 072.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>SECTION : II CRITERION<br/>WISE ANALYSIS</b> | <b>Observations (strength and / or Weakness) on Key-Aspects</b><br><i>(Please limit to three major ones for each and use telegraphic language (It is necessary to indicate all the three bullets each time ; write only relevant ones)</i>                                                                                                                                                                                                                                                                                                                    |
| <b>2.1 Curricular Aspects :</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2.1.1 Curricular Design & Development :         | <ul style="list-style-type: none"> <li>• The Anna University of Coimbatore designs and develops academic curriculum which is adopted by the college.</li> <li>• Curriculum delivery and evaluation are done as per norms</li> <li>• Inputs from internal and external faculty, students, alumni and industry representatives obtained through organized meetings fed into the Board of Studies of affiliating University for designing the curriculum.</li> <li>• Topics beyond syllabus may be introduced to promote innovation-centric learning.</li> </ul> |
| 2.1.2 Academic Flexibility :                    | <ul style="list-style-type: none"> <li>• Introduction of choice based credit system (CBCS) across the programmes would be desirable to introduce.</li> <li>• Flexibility of choosing electives from across disciplines may be encouraged</li> <li>• Value-add courses are provided.</li> </ul>                                                                                                                                                                                                                                                                |



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| 2.1.3 Feedback on curriculum :                      | <ul style="list-style-type: none"> <li>• Feed back is obtained by the individual departments through organized meetings, feedback from students , alumni, employers &amp; other stakeholders</li> <li>• Feedback is given to BOS while redesigning the curriculum and also midterm corrections.</li> <li>• Formalization of feedback process and action on feedback needs to be strengthened.</li> </ul>                                                                                                                 |
| 2.1.4 Curriculum update                             | <ul style="list-style-type: none"> <li>• The syllabus is revised once in two year for PG and once in four years for UG programme by the Anna University and is implemented by the College.</li> <li>• At least one course in ICT is a part of core courses in each department.</li> </ul>                                                                                                                                                                                                                                |
| 2.1.5 Best practices in Curricular Aspects (if any) | <ul style="list-style-type: none"> <li>• Trying to strike a balance between career oriented and value aspects in the curriculum.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                              |
| <b>2.2 Teaching-Learning &amp; Evaluation</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2.2.1 Admission Process and Student Profile :       | <ul style="list-style-type: none"> <li>• Admission related details are widely published through various media ensuring wider reach out.</li> <li>• Admissions are done through entrance test as per University and state government norms ensuring social equity</li> <li>• Admission processes follows 65% through State level Single-window and 35% through management for UG and the same is 50% for both the quota for PG programmes</li> </ul>                                                                      |
| 2.2.2 Catering to the Diverse Needs:                | <ul style="list-style-type: none"> <li>• The College has provision to conduct tutorial classes and student mentoring process.</li> <li>• Students with lower academic performance and slow learners are given extra coaching classes.</li> <li>• Bridge/Remedial courses are offered in some programmes.</li> <li>• Special attention needs to be paid for transformation from Tamil Medium to English Medium.</li> <li>• Counseling to advanced learners may be strengthened aiming at promoting innovation.</li> </ul> |

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| 2.2.3 Teaching-Learning Process :                                  | <ul style="list-style-type: none"> <li>Teaching-learning and evaluation schemes for the upcoming academic year is made available to all the staff and students</li> <li>The faculty adopts mostly chalk and talk method supplemented with ICT based teaching learning aids.</li> <li>Problem based/Project based Learning may be adopted to promote creative thinking.</li> </ul>                                    |
| 2.2.4 Teacher Quality :                                            | <ul style="list-style-type: none"> <li>There are 30 Ph.D. qualified teachers out of 217.</li> <li>Teacher performance is judged by self-appraisal and feedback by students</li> <li>Policy for promoting research by young faculty by providing seed funding need to be introduced.</li> <li>All the teachers need to be provided adequate office space with computing facilities and student counseling.</li> </ul> |
| 2.2.5 Evaluation Process and Reforms :                             | <ul style="list-style-type: none"> <li>There is double valuation of answer scripts for end semester exams.</li> <li>Verification of scripts is done in respect of UG exams, and for the PG paper revaluation is permitted</li> <li>Continuous assessment is done through Internal Assessment tests and communicated periodically to parents.</li> </ul>                                                              |
| 2.2.6 Best Practices in Teaching Learning and Evaluation. (if any) | <ul style="list-style-type: none"> <li>Teacher performance evaluation through self appraisal and feedback evaluation by students</li> <li>Teachers are encouraged to enhance their knowledge through workshops /higher studies/research activities.</li> </ul>                                                                                                                                                       |
| <b>2.3 Research, consultancy &amp; Extention :</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2.3.1 Promotion of Research :                                      | <ul style="list-style-type: none"> <li>Research Advisory Council steer, evaluate and do a quality check of both student and faculty research</li> <li>Specific annual allocation for supporting research by young teachers is desirable.</li> <li>Six departments are recognized as research centers by the Anna University.</li> </ul>                                                                              |

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| 2.3.2 Research and Publication Output :                            | <ul style="list-style-type: none"> <li>• Few teachers have received special honors, published books and papers in refereed journals.</li> <li>• Two patents have been granted based on the work done at the college</li> <li>• 13 faculty members have been recognized as research guide.</li> </ul>                                                                                                                              |
| 2.3.3 Consultancy :                                                | <ul style="list-style-type: none"> <li>• Faculty needs to be encouraged for consultancy services.</li> <li>• Policy for Industrial Consultancy of the college needs to be evolved.</li> </ul>                                                                                                                                                                                                                                     |
| 2.3.4 Extension Activities :                                       | <ul style="list-style-type: none"> <li>• The institution through its NSS, NCC, RRC and YRS units are contributing to the community development activities.</li> <li>• Participation of students and faculty in outreach programmes to surrounding rural areas needs to be strengthened.</li> </ul>                                                                                                                                |
| 2.3.5 Collaborations :                                             | <ul style="list-style-type: none"> <li>• Institute needs to establish strong linkages with industry and premier institutions.</li> </ul>                                                                                                                                                                                                                                                                                          |
| 2.3.6 Best Practices in Research, Consultancy & Extension (if any) | <ul style="list-style-type: none"> <li>• Establishment of research centers in various departments.</li> </ul>                                                                                                                                                                                                                                                                                                                     |
| <b>2.4 Infrastructure and Learning Resources :</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2.4.1 Physical Facilities for Learning :                           | <ul style="list-style-type: none"> <li>• The institution has a campus area of 10.13 Acres and its built-up area is about 48000 sq. m. and has an overall conducive academic environment.</li> <li>• The campus is well equipped with facilities for few outdoor and indoor games. Sports facilities need to be enhanced.</li> <li>• The college has adequate space for present academic and administrative activities.</li> </ul> |
| 2.4.2 Maintenance of Infrastructure :                              | <ul style="list-style-type: none"> <li>• Infrastructure is well maintained. In-house expertise is used for maintaining infrastructure.</li> <li>• Adequate budget is provided for maintaining computer and network facilities.</li> </ul>                                                                                                                                                                                         |



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| 2.4.3 Library as learning Resources                                              | <ul style="list-style-type: none"> <li>• Online journals through DELNET/EBSCO/IEEE are available.</li> <li>• Department libraries with moderate resources are in place</li> <li>• Library is computerized with OPAC access.</li> </ul>                                                                                                                           |
| 2.4.4 ICT as Learning Resources :                                                | <ul style="list-style-type: none"> <li>• Adequate computer facilities are available.</li> <li>• Faculty and students have access to computers.</li> <li>• Internet facilities are available with 20 MBPS broad bend connection through WiFi.</li> <li>• Virtual class Room may be created.</li> </ul>                                                            |
| 2.4.5 Other Facilities                                                           | <ul style="list-style-type: none"> <li>• Health Care facility is provided by visiting Medical Practitioner to staff and students. Ambulance is available in the campus.</li> <li>• Canteen, Transportation and Hostel facilities are available.</li> <li>• Sports facilities needs augmented.</li> </ul>                                                         |
| 2.4.6 Best Practices in the development of Infrastructure and Learning Resources | <ul style="list-style-type: none"> <li>• Constant up gradation of Infrastructure</li> <li>• In house maintenance of building , infrastructure and computing facilities.</li> </ul>                                                                                                                                                                               |
| <b>2.5 Student Support and Progression :</b>                                     |                                                                                                                                                                                                                                                                                                                                                                  |
| 2.5.1 Student Progression :                                                      | <ul style="list-style-type: none"> <li>• The performance of the students at the University level examinations is continuously improving.</li> <li>• Bridge and Remedial courses are conducted for needy students.</li> <li>• Value-add courses are conducted to improve job opportunities.</li> <li>• Efforts for competitive exams may be augmented.</li> </ul> |
| 2.5.2 Student Support :                                                          | <ul style="list-style-type: none"> <li>• There is Training and Placement Cell and Entrepreneurship development cell.</li> <li>• Meritorious students from economically weaker sections and students of disadvantaged communities are given fee concession / fee waiver.</li> </ul>                                                                               |

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|                                                                   | <ul style="list-style-type: none"> <li>All the students are insured under group insurance scheme.</li> </ul>                                                                                                                                                                                                                                                      |
| 2.5.3 Student Activities :                                        | <ul style="list-style-type: none"> <li>Students are involved in various extension and extra-curricular activities.</li> <li>The College encourages students to participate in National, Zonal and State level sports, cultural events and other activities.</li> <li>Alumni association is participating in the development and growth of the college.</li> </ul> |
| 2.5.4 Best Practices in Students Support and Progression (If any) | <ul style="list-style-type: none"> <li>Student support services in the form of both financial and academic initiatives</li> </ul>                                                                                                                                                                                                                                 |
| <b>2.6 Governance and Leadership</b>                              |                                                                                                                                                                                                                                                                                                                                                                   |
| 2.6.1 Institutional Vision and Leadership :                       | <ul style="list-style-type: none"> <li>Management provides effective leadership in institutional governance.</li> <li>Vision and Mission statements may include rural perspective in view of college being in rural setting.</li> </ul>                                                                                                                           |
| 2.6.2 Organizational Arrangements:                                | <ul style="list-style-type: none"> <li>The college organizational arrangements are in tune with the statutory requirements</li> <li>Well defined Organizational Structure of the College exists.</li> <li>Initiative may be taken to promote inter-disciplinary research and project work.</li> </ul>                                                             |
| 2.6.3 Strategy Development and Deployment                         | <ul style="list-style-type: none"> <li>There is an academic plan as per the University guidelines.</li> <li>Emerging technology areas need to be exposed through special lectures/workshops.</li> <li>Strategic plan need to be developed with active participation of stake holders.</li> </ul>                                                                  |
| 2.6.4 Human Resource Management :                                 | <ul style="list-style-type: none"> <li>The recruitment and retention policies of the college are clearly specified and strictly adhered to</li> <li>Programs for skill up-gradation of the staff need to be strengthened.</li> </ul>                                                                                                                              |



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|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                 |
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|                                                            | <ul style="list-style-type: none"> <li>The college provides incentives for attending conferences and perusing higher studies.</li> </ul>                                                                                                                                                                                                                                                        |
| 2.6.5 Financial Management and Resource Mobilization ;     | <ul style="list-style-type: none"> <li>External and internal audits are carried out on a regular basis</li> <li>Financial management processes are computerized.</li> <li>The college has put in considerable efforts for mobilizing resources for its developmental activities</li> </ul>                                                                                                      |
| 2.6.6 Best Practices in Governance and Leadership (If any) | <ul style="list-style-type: none"> <li>Incentive for higher studies and skill up-gradation</li> <li>Resource mobilization.</li> </ul>                                                                                                                                                                                                                                                           |
| 2.7 Innovative Practices :                                 |                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2.7.1 Internal Quality Assurance System :                  | <ul style="list-style-type: none"> <li>The Institute is ISO 9001: 2008 certified. IQAC needs to be strengthened for continuous improvement.</li> <li>Feedback collection and analysis need to be computerized.</li> <li>Action on feedback needs to be systematized.</li> </ul>                                                                                                                 |
| 2.7.2 Inclusive Practices :                                | <ul style="list-style-type: none"> <li>The institution adopts inclusive approach by providing reservation as per government norms for weaker sections of the society.</li> <li>The institution also attempts to maintain gender balance both among students and staff.</li> <li>The College has provision to provide some financial support to weaker and under-privileged students.</li> </ul> |
| 2.7.3 Stake Holder Relationships :                         | <ul style="list-style-type: none"> <li>The institute is attempting to involve the stake holders in strengthening the academic programmes through regular feedback.</li> <li>Active Alumni Association is in place.</li> <li>The college is actively engaged in conducting out-reach programmes and maintaining good relations with the community.</li> </ul>                                    |

SECTION III : OVERALL ANALYSIS

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| 3.1 Institutional Strength :      | <ul style="list-style-type: none"> <li>• Well maintained infrastructure.</li> <li>• Good faculty profile.</li> <li>• Pro active management.</li> <li>• An ISO 9001- 2008 certified Institute with three NBA accredited programmes.</li> <li>• Value-add courses for better employment opportunities.</li> <li>• Adequate laboratory and library facilities.</li> <li>• Adequate sports facilities for outdoor and indoor games have been developed with reasonable hostel facility.</li> <li>• Setting up research centers to augment innovation and research.</li> </ul> |
| 3.2 Institutional Weaknesses :    | <ul style="list-style-type: none"> <li>• System is non-existent to train administrative and non-teaching support staff</li> <li>• System is not developed to allot separate R &amp; D budget to departments</li> <li>• Students intake and faculty recruitment from other states is negligible</li> <li>• Regular health care center with beds and nursing facility on campus is lacking</li> <li>• Emphases on innovation centric teaching, learning and evaluation processes is lacking</li> </ul>                                                                      |
| 3.3 Institutional Opportunities : | <ul style="list-style-type: none"> <li>• Initiating for academic autonomy and striving towards university</li> <li>• Improve the Quality of Research and attract more funding</li> <li>• To initiate more programmes of rural relevance and use the rich resources available with the institution for creating a research culture</li> </ul>                                                                                                                                                                                                                              |

*Signature*

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|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | <ul style="list-style-type: none"> <li>• Setting up technology business incubators and marketing native research</li> <li>• To initiate programs for promotion of native innovation in engineering practices in vernacular</li> </ul>                                                         |
| 3.4 Institutional Challenges : | <ul style="list-style-type: none"> <li>• Retention of well qualified and experienced faculty members</li> <li>• To attract the good quality students</li> <li>• Copping up with emerging technologies and market</li> <li>• Competing for effective industry-institute partnership</li> </ul> |

**Section IV : Recommendations for Quality Enhancement of the Institution**

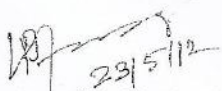
(Please limit to ten major ones and use telegraphic language)

*(it is not necessary to indicate all the ten bullet)*

- Proactive initiative may be taken to improve intake from rural areas and disadvantaged communities.
- "Career guidance cell" and "Entrepreneurship Development Cell" may be strengthened.
- More linkages with industries and other institutions are desirable.
- Faculty may be encouraged to apply for major and minor research projects from various funding agencies.
- More financial assistance to the needy students may be considered.
- The college, upon attaining autonomy, may consider to introduce Choice Based Credit System and organize orientation programme for both the students and staff to move in the direction of optimization of the benefits of CBCS and the importance of going beyond the department and choosing credits from a range of subjects .
- Efforts be made to establish Technology Business Incubator and proactively promote entrepreneurship.
- IT (Integrated Technology) clinic may be set up to provide open consultancy to Micro & Small Industries in the neighborhood and thus improve their productivity & quality life.
- E-governance be implemented in all the administrative and academic activities.
- Minor projects may be introduced where in students interact with local people and provide solution and prepare report in vernacular to share with them.
- College should actively engage in societal services like consultancy, testing, training etc. and also try to quantify the impact of social services in the neighbouring villages.

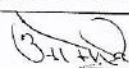
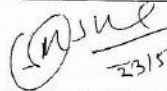
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I agree with the Observations of the Peer Team as mentioned in this report.

  
Signature of the Head of the  
Institution, Seal of the  
Institution

Prof. Dr. V.P. Arunachalam, B.E., M.E., Ph.D.  
PRINCIPAL  
SNS College of Technology  
Coimbatore - 641 035.

Signature of the Peer Team Members:

| Name and Designation | Peer Team Members   | Signature with date                                                                              |
|----------------------|---------------------|--------------------------------------------------------------------------------------------------|
| Prof. Om Vikas       | Chairperson         | <br>23.05.12 |
| Prof. J. B. Naik     | Member Co-ordinator | <br>23.5.12 |
| Prof. S. M. Shah     | Member              | <br>23/5/12 |
| Dr. Jagannath Patil  | Deputy Adviser      |                                                                                                  |

Place: Coimbatore

Date: 23 May 2012



## ANNEXURE -1.1

### Details of feedback received from Alumni, Employer and Research bodies

| Academic Year | Bodies          | Name of the expert with affiliation                                                                         | Notable feedback                                                                                                                                               | Action taken on feedback                                                             |
|---------------|-----------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 2013 -14      | Industry        | Mr.K.Raghunandana<br>Senior Deputy General Manager,<br>Larson & Turbo,<br>Coimbatore                        | Principles of Management and Organizational Behaviour can be made as a separate subject.                                                                       | Same has been implemented                                                            |
|               |                 | Mr.P.Nagaraj<br>CEO<br>Legend Technologies<br>Coimbatore                                                    | In IT101 course, may move function pointer to unit III                                                                                                         | It has not been moved since unit II has content about functions                      |
|               |                 | Mr.Leo Sarni<br>Vincent Raj<br>AV Properties India Ltd<br>Gandhipuram<br>Coimbatore                         | Title for Surveying laboratory has to be Modified                                                                                                              | The title has been changed as Survey practical-I and Survey practical-II             |
|               | Research bodies | Dr.P.Suresh Kumar,<br>Director, School of Management Studies, Bannari Amman Institute of Technology, Sathy. | Total Quality Management and Entrepreneurship Development courses can be taken to IV semester from I semester                                                  | Same is been implemented.                                                            |
|               |                 | Dr.M.Marikkannan<br>Assistant Professor<br>IRTT<br>Erode                                                    | In IT101, may include Basic OOPs concepts.                                                                                                                     | IT101 deals wholly with C so OOPs concepts are not included                          |
|               | Public          | Ms.N.Geetha<br>School Teacher<br>CMS Matriculation<br>Higher Secondary<br>School                            | Include mail merge in word processing in CS102 syllabus                                                                                                        | Included in the syllabus                                                             |
|               |                 | Dr.S.Maragatham,<br>Professor & Head<br>Avinashilingam<br>University                                        | The syllabus content for the Course Engineering Geology has to be revised and the syllabus has to be framed for Engineering Geology and Construction Materials | The syllabus has been modified as per Engineering Geology and Construction Materials |

|          |                               |                                                                                                                                           |                                                                                                |                                                                       |
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|          | <b>Alumni</b>                 | Mr.S.Damodharan,<br>Director, Embedded<br>Solutions &<br>Technology<br>Services, Chennai                                                  | Unit IV in HRM<br>subject is suggested<br>to change as<br>Employee<br>Engagement               | Same is been<br>implemented                                           |
|          |                               | Pradeep Kumar.M<br>Software Engineer<br>/HCL Ltd                                                                                          | Include Unix<br>commands in CS102                                                              | Not included since<br>programming is<br>concentrated more             |
|          |                               | Anitha.R<br>Software<br>Engineer/NILE<br>STREAM INFO<br>TECHNOLOGIES                                                                      | May include<br>advanced concepts<br>in C as another<br>course in 2nd<br>Semester               | Advanced C<br>Programming<br>course is included<br>in 2nd Semester    |
|          | <b>Employer</b>               | Mr.Sridhar<br>Manager Operations<br>Consolidated<br>Cybernetics<br>Coimbatore                                                             | May include<br>employment and<br>skill development<br>courses in the<br>curriculum             | Mini project and<br>Industry oriented<br>courses are<br>included      |
|          | <b>University<br/>Nominee</b> | Dr.G.Sankarasubram<br>anian,<br>Professor& Head<br>PSG College of<br>Technology,<br>Coimbatore                                            | The course<br>Geotechnical<br>Engineering-I is to<br>be offered in V<br>semester               | The course has<br>been moved to V<br>semester                         |
|          | <b>Industry</b>               | Mr.G.Hemanand<br>(Director- Client<br>Services V & D<br>Technologies Pvt<br>Ltd, CBE)                                                     | To use latest<br>softwares and<br>animation techniques<br>in lab course                        | Latest softwares<br>have been used                                    |
| 2013-14  |                               | Mr. S.Lakshmanan,<br>CEO, Precitron<br>Smart System,<br>Coimbatore                                                                        | In Microprocessor<br>based system design,<br>concepts of new<br>controllers may be<br>included | Included new<br>controller topics.                                    |
|          |                               | Mr.S.Lakshmanan<br>CEO, Precitron<br>Smart System,<br>Coimbatore                                                                          | Shall shift “Power<br>plant Engineering”<br>to IV sem instead of<br>III sem                    | The course is<br>shifted                                              |
| 2013 -14 |                               | Mr.K.Raghunandana<br>n, Senior Deputy<br>General Manager,<br>Larson & Turbo,<br>Coimbatore                                                | Suggested to<br>simplify the course<br>content for all<br>courses in future.                   | Same been<br>implemented.                                             |
|          |                               | Prof.S.Lakshmanan<br>Managing Director,<br>Precitron,<br>Coimbatore.<br>Mr.G.Hemanand<br>Director-Client<br>Services, V&D<br>Technologies | Revise the syllabus<br>for the subject<br>‘Machine Vision’for<br>PG M.E ECE.                   | Syllabus corrected<br>according to the<br>expert member<br>guidelines |

|          |                        |                                                                                                                                                                                   |                                                                                                                                           |                                                                                                                |
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|          |                        | Mr. P. Mohan raj<br>Texmo<br>Coimbatore                                                                                                                                           | Suggested to combine two courses automotive petrol engines and automotive diesel engines as a single course                               | Two courses are combined as a single course                                                                    |
|          |                        | Haridoss.R<br>CEO,<br>Online Consultancy Services,<br>Coimbatore                                                                                                                  | In CS201, include some case studies                                                                                                       | Added in Unit V                                                                                                |
|          |                        | Mr.Selvam<br>Team Lead<br>Femtosoftware<br>Chennai                                                                                                                                | In CS202, include more java programs                                                                                                      | Java concepts covered only in Unit V. C++ is given more priority                                               |
| 2014 -15 | <b>Research bodies</b> | Dr.N. Devarajan<br>Professor, EEE,<br>GCT, coimbatore                                                                                                                             | The subject “Entrepreneurship Development” may be replaced by new elective “Instrumentation in power plant, paper and process industries” | The course named Instrumentation in petrochemical, paper and steel industries has been introduced in elective. |
|          |                        | Dr.P.Suresh Kumar,<br>Director, School of Management Studies, Bannari Amman Institute of Technology, Sathy.                                                                       | Suggested to implement latest edition books for all the courses.                                                                          | Same is been implemented.                                                                                      |
|          |                        | Dr.S.Uma Maheswari,<br>Associate Professor, Department of ECE, Coimbatore Institute of Technology, Coimbatore.                                                                    | Suggested to shift the subject ‘Digital Image Processing’ to the VI semester and the subject ‘Digital Communication’ to the Vsemester.    | Modified in UG curriculum                                                                                      |
| 2014 -15 | <b>Research bodies</b> | Dr.T.Purusothaman,<br>Associate Professor/CSE, Government College of Technology, Coimbatore<br>Dr.M.Marikkannan,<br>AP(SR)/CSE, Institute of Road and Transport Technology, Erode | Advised to include Information security course                                                                                            | Introduced Information security course as elective                                                             |
|          |                        | Dr.A.Kannammal,<br>Associate Prof                                                                                                                                                 | Advised to introduce XML and Web                                                                                                          | Introduced XML and web services in                                                                             |

|  |               |                                                                                                                                |                                                                                                            |                                                     |
|--|---------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
|  |               | &Head/MCA,<br>Coimbatore Institute<br>of Technology,<br>Coimbatore                                                             | services course                                                                                            | semester V                                          |
|  |               | Dr. K.S. Amirtha<br>Gadeswaran<br>Professor -<br>Mechanical<br>GCT, Coimbatore                                                 | Suggested to shift<br>the course<br>automotive electrical<br>system from IV<br>semester to III<br>semester | Course has been<br>shifted to third<br>semester     |
|  |               | Dr. N.Karthikeyan,<br>Dean-Academic /<br>S&H, SNSCE,<br>Coimbatore.                                                            | Move Computer<br>Organization and<br>Architecture to<br>Semester III                                       | It is moved to<br>Semester III from<br>Semester IV  |
|  |               | Dr.A.Kannammal,<br>Associate Prof &<br>Head/MCA,<br>Coimbatore Institute<br>of<br>Technology,Coimbat<br>ore                    | Advised to introduce<br>XML and Web<br>services course                                                     | Introduced XML<br>and web services in<br>semester V |
|  |               | Dr. K.S. Amirtha<br>Gadeswaran<br>Professor -<br>Mechanical<br>GCT, Coimbatore                                                 | Suggested to shift<br>the course<br>automotive electrical<br>system from IV<br>semester to III<br>semester | Course has been<br>shifted to III<br>semester       |
|  |               | Dr. N.Karthikeyan,<br>Dean-Academic /<br>S&H, SNSCE,<br>Coimbatore.                                                            | Move the course<br>Computer<br>Organization and<br>Architecture to<br>Semester III                         | It is moved to<br>Semester III from<br>Semester IV  |
|  | <b>Public</b> | Dr. S. Uma<br>Maheswari<br>Associate Professor,<br>Department of ECE,<br>Coimbatore Institute<br>of Technology,<br>Coimbatore. | Digital Image<br>Processing course<br>may be replaced by<br>the course machine<br>vision                   | Machine Vision<br>course has been<br>introduced.    |
|  |               | Mr.Chandru<br>Alumni                                                                                                           | In CS204, include<br>Connectivity for<br>Databases                                                         | JDBC and ODBC<br>is included                        |
|  | <b>Alumni</b> | Mr.K.Jeyakumar,<br>Robert Bosch,<br>Coimbatore                                                                                 | To provide more<br>experiments and<br>concepts in practical<br>courses based on<br>industrial needs        | More experiments<br>are included in lab<br>courses  |
|  |               | Mr.S.Damodharan,<br>Director, Embedded<br>Solutions &<br>Technology                                                            | Suggested to change<br>Business Ethics,<br>Corporate Social<br>Responsibility and                          | Same is been<br>implemented.                        |



|          |                    |                                                                                                                         |                                                                                                                                        |                                                                   |
|----------|--------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|          |                    | Services, Chennai.                                                                                                      | Governance to be renamed as Corporate Governance and Social Responsibility.                                                            |                                                                   |
| 2014 -15 | <b>Industry</b>    | Mr. S. Rangaramanujam<br>Robert Bosh<br>Coimbatore                                                                      | Suggested to combine two courses automotive chassis components lab and automotive engines Components lab as a single course            | Two courses are combined as a single course                       |
|          |                    | Mr.T.Aravindkumar<br>Software Engineer<br>/HCL Ltd                                                                      | Theory of Analysis and computing syllabi is vast for students to learn.                                                                | Some topics were removed                                          |
|          | <b>Industry</b>    | Mr.C.Ramalingam,<br>Software developer,<br>Robert BOSCH,<br>Coimbatore                                                  | Suggested to include latest VLSI technologies in curriculum                                                                            | CMOS VLSI design and Low Power VLSI Design Included in curriculum |
|          | <b>Academician</b> | Dr.S.Uma Maheswari,<br>Associate Professor,<br>Department of ECE,<br>Coimbatore Institute of Technology,<br>Coimbatore. | Suggested to shift the subject 'Digital Image Processing to the VI semester and the subject 'Digital Communication' to the V semester. | Modified in UG curriculum                                         |
|          | <b>Employer</b>    | Mr.V.Vipin,<br>Trinity solutions,<br>Coimbatore                                                                         | To include mini projects in lab course                                                                                                 | Mini projects are included in lab course                          |
|          |                    | Ashok.AC<br>Executive, Strategic<br>Resourcing Group,<br>L&T Infotech,<br>Chennai                                       | In CS201, move virtual functions from Unit I to Unit IV                                                                                | It is been moved                                                  |
|          |                    | Mr.G.Hemanand,<br>Director- Client<br>Services V & D<br>Technologies Pvt<br>Ltd, Coimbatore                             | To include more practical courses in curriculum                                                                                        | Practical courses have been included in curriculum                |
|          |                    | Mr.S.Lakshmanan<br>CEO, Precitron<br>Smart System,<br>Coimbatore                                                        | Shall include "Speed control and braking of Single phase IM" in the course Electrical Machine and Drives                               | This topic is included                                            |
|          |                    | Mr.K.Raghunandana,<br>Joint General<br>Manager, Larson &                                                                | Suggested converting Innovation and                                                                                                    | Same is been implemented.                                         |

|          |                           |                                                                                            |                                                                                             |                                                                     |
|----------|---------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|          |                           | Turbo, Coimbatore                                                                          | Creativity course as practical instead of theory paper.                                     |                                                                     |
| 2014 -15 | <b>Industry</b>           | Prof.S.Lakshamanan<br>Managing Director,<br>Precitron,<br>Coimbatore.                      | Include IGBT in Solid State Circuits-I theory and Lab syllabus                              | Carried out                                                         |
|          |                           | Mr.G.Hemanand<br>Director-Client<br>Services, V&D<br>Technologies Pvt.<br>Ltd., Coimbatore | Suggested to introduce case studies in E-Commerce course                                    | It is decided to introduce case study for each unit during teaching |
|          |                           | Mr. P. Mohan raj<br>Texmo<br>Coimbatore                                                    | Suggested to add new course Automotive chassis components design                            | New course has been added                                           |
|          |                           | Ms.V.Pavithra<br>Victory Placement<br>Services<br>Coimbatore                               | In CS433, Move “Implementing E-Governance” to Unit I                                        | It is been moved since Unit I covers basics of E-Governance         |
|          |                           | Ms.Umamaheshwari<br>HR<br>Coimbatore<br>Operations<br>ENOAH I Solutions<br>Coimbatore      | In CS319, may include, some specific databases                                              | Spatial databases included                                          |
|          | <b>Industry</b>           | Mr.Leo Sarni<br>Vincentraj<br>AV Properties India<br>Ltd<br>Gandhipuram<br>Coimbatore      | In the course survey camp Highway project to be changed to Road Alignment                   | Suggestion has been included                                        |
|          | <b>University Nominee</b> | Dr.G.Sankarasubramanian,<br>Professor& Head<br>PSG College of<br>Technology,<br>Coimbatore | In the course Fluid Mechanics 2 <sup>nd</sup> and 3 <sup>rd</sup> unit have to be modified  | Corrections were updated                                            |
|          |                           | Dr.Anand Paul,<br>Director<br>,Professor/CSE,National<br>university,south<br>Korea.        | To improve the quality of the syllabus based on international standards                     | Improved the quality of the syllabus                                |
| 2014 -15 |                           | Mr. N. Devarajan<br>Professor, EEE,<br>GCT, Coimbatore                                     | To merge the two experiments into one experiments under the electrical machines laboratory. | Merged into one experiment.                                         |

|          |                        |                                                                                                                                                                              |                                                                                                                                     |                                                                         |
|----------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
|          | <b>Research bodies</b> | Dr.P.Suresh Kumar,<br>Director Research & Industrial Consultancy, Knowledge Institute of Technology, Salem.                                                                  | Suggested to increase the number of hours for all theory papers to 45 hours (3 Credits) and 60 hours (4 Credits) for theory Papers. | Same is been implemented.                                               |
|          |                        | Dr.T.Purusothaman, Associate Professor/CSE, Government College of Technology, Coimbatore<br>Dr. M.Marikkannan, AP(SR)/CSE, Institute of Road and Transport Technology, Erode | Advised to group elective courses                                                                                                   | Elective courses are grouped into three classes based on specialization |
|          |                        | Dr.A.Kannammal, Associate Prof & Head/MCA, Coimbatore Institute of Technology, Coimbatore                                                                                    | Advised to include Big data analytics course                                                                                        | Introduced Big data analytics as elective in semester V.                |
|          |                        | Dr. P. Karthikeyan<br>ASP, PSGTECH Coimbatore                                                                                                                                | Suggested to add new course Automotive engine components design                                                                     | New course has been added                                               |
|          |                        | Dr. M.Hanuman Thappa, Professor and Director, Department of Computer Application, Bangalore University, Bangalore.                                                           | Can Move Project Planning and Project Scheduling to Unit V from Unit III in Software Engineering Course                             | Two topics are Moved to Unit V                                          |
|          |                        | Dr.Sigurd Meldal, Director, San José State University, California, USA.                                                                                                      | For CS320-Real Time Systems, there is no need of any changes                                                                        | No changes made                                                         |
|          | <b>Academician</b>     | Dr.S.Uma Maheswari, Associate Professor, Department of ECE, Coimbatore Institute of Technology, Coimbatore.                                                                  | Give more importance to the FET instead of BJT in Solid State Circuits-I and Solid State Circuits-II Syllabus                       | Carried out                                                             |
| 2014 -15 | <b>Alumni</b>          | P.Sreevidhya, Project Leader, Nimbeon Intertechnology PVT                                                                                                                    | Suggested to include latest architecture in curriculum                                                                              | ARM Architecture and Programming included as elective                   |

|  |                 |                                                                                           |                                                                                                                                                                                  |                                                                                                                                                           |
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|  |                 | limited, Coimbatore                                                                       |                                                                                                                                                                                  |                                                                                                                                                           |
|  | <b>Public</b>   | Dr.S. Manoharan<br>Professor<br>Karpagam College<br>of Engineering,<br>Coimbatore         | To include new<br>elective course<br>computer control of<br>processes<br><br>To remove some<br>topics given under<br>measurements and<br>instrumentation                         | Computer control<br>of Processes has<br>been introduced in<br>the curriculum.<br><br>Removed the extra<br>topics given under<br>the particular<br>course. |
|  |                 | Mr.K.S. Rajaprakash<br>Center Head (CH),<br>NIIT, Coimbatore.                             | In course CS302,<br>may include<br>simulation tools                                                                                                                              | JFLAP tool is<br>included in the<br>syllabus                                                                                                              |
|  |                 | N. Dinesh Kumar                                                                           | To include<br>experiments that<br>deals with web<br>designing                                                                                                                    | The feedback was<br>taken into<br>consideration and<br>was included as<br>experiment in lab<br>course                                                     |
|  | <b>Alumni</b>   | Mr.S.Damodharan,<br>Director, Embedded<br>Solutions &<br>Technology<br>Services, Chennai. | Suggested to split<br>Business<br>Organization and<br>Management paper<br>to have first three<br>unit for Management<br>and the other two<br>units for business<br>organization. | Same is been<br>implemented.                                                                                                                              |
|  |                 | S. Rangaramanujam<br>Robert Bosh<br>Coimbatore                                            | Suggested to add<br>new course<br>Automotive design<br>and analysis lab<br><br>In course CS304,<br>include knowledge<br>about Threads in<br>java                                 | New course has<br>been added<br><br>Unit V deals about<br>Threads                                                                                         |
|  |                 | Janani Priya.K.R<br>Software Engineer<br>/HCL Ltd<br>Coimbatore                           | In CS316, change<br>JAR file creation as<br>JAR file handling                                                                                                                    | It is changed since<br>jar file handling<br>includes more jar<br>file operations                                                                          |
|  |                 | P.Sreevidhya,<br>Project Leader,<br>Nimbeon<br>Intertechnology PVT<br>limited, Coimbatore | Suggested to include<br>latest architecture in<br>curriculum                                                                                                                     | ARM Architecture<br>and Programming<br>included as elective                                                                                               |
|  | <b>Employer</b> | Mr.Alwar<br>Dream Plus India<br>Pvt Ltd<br>Coimbatore                                     | Include Internet<br>Programming course<br>in the curriculum                                                                                                                      | Included in VI<br>semester as core<br>course                                                                                                              |
|  | <b>Industry</b> | Mr.G.Hemanand<br>Director- Client                                                         | Recommended to<br>include IoT as                                                                                                                                                 | IoT is included in<br>Elective course.                                                                                                                    |

|         |                           |                                                                                                                            |                                                                                                                   |                                                                |
|---------|---------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 2015-16 |                           | Services V & D Technologies Pvt Ltd, Coimbatore                                                                            | Elective course.                                                                                                  |                                                                |
|         |                           | Mr. S.Lakshmanan<br>CEO, Precitron<br>Smart System,<br>Coimbatore                                                          | To improve value added courses                                                                                    | List of value added course have been identified.               |
|         |                           | Dr.N.Devarajan<br>Professor, EEE,<br>GCT, Coimbatore<br>& Mr.S.Lakshmanan<br>CEO, Precitron<br>Smart System,<br>Coimbatore | Shall include “Electric Drives by Vedam Subramaniam Book” as text book for the course Electric Drives and Control | This book is included                                          |
|         |                           | Prof.S.Lakshmanan<br>Managing Director,<br>Precitron,<br>Coimbatore.                                                       | Include Bluetooth Technology as open elective for PG courses.                                                     | Carried out                                                    |
|         |                           | Mr./Mrs.Chippy.A<br>Software Engineer,<br>CTS, Coimbatore                                                                  | May include system software course                                                                                | Included                                                       |
|         |                           | Mr.Leo Sarni<br>Vincent Raj AV<br>properties india<br>ltd,Gandhipuram<br>Coimbatore                                        | In the course estimating costing & valuation, bar bending schedule has to be introduced                           | Bar Bending schedule has been introduced in Unit-3             |
| 2015-16 | <b>University Nominee</b> | Dr.G.Sankarasubramanian,<br>Professor& Head<br>PSG College of<br>Technology,<br>Coimbatore                                 | In the course Estimating Costing and Valuation arches topics can be removed                                       | Updated the syllabus                                           |
|         | <b>Research bodies</b>    | Dr.S.Uma Maheswari,<br>Associate Professor,<br>Department of ECE,<br>Coimbatore Institute<br>of Technology,<br>Coimbatore. | To remove the Unit I and include memory as one unit in VII semester CMOS VLSI Design syllabus                     | The unit suggested is included in the syllabus                 |
|         |                           | Dr.A.Kannammal,<br>Associate Prof &<br>Head/MCA,<br>Coimbatore Institute<br>of Technology,<br>Coimbatore                   | Advised to include XML programs in open source laboratory                                                         | Introduced XML related programs in Open source laboratory list |
|         | <b>Public</b>             | Dr.Vijayaraghavan<br>Viswanathan<br>Scientist &<br>Researcher,<br>CERN-Ardent,                                             | May Include any Industry Oriented courses in the curriculum                                                       | Two course from Infosys is included                            |

|         |                 |                                                                                                                    |                                                                                                                                                                                                                                                                                                                                 |                                                                                 |
|---------|-----------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|         |                 | Switzerland.                                                                                                       |                                                                                                                                                                                                                                                                                                                                 |                                                                                 |
|         |                 | Mr.S.Karthikeyan<br>Agaram infotech                                                                                | Include some<br>Entrepreneurship<br>courses                                                                                                                                                                                                                                                                                     | Included as open<br>elective                                                    |
|         | <b>Alumni</b>   | Aravind.R , Yali<br>Studios, Coimbatore                                                                            | To include<br>multimedia concepts<br>in curriculum                                                                                                                                                                                                                                                                              | Included in<br>computer graphics<br>and multimedia<br>course                    |
|         |                 | Bhuvanesh.D.<br>Technical Support<br>Engineer/<br>C Cubed solutions<br>Pvt ltd                                     | Include case studies<br>in CS715                                                                                                                                                                                                                                                                                                | Included in unit IV                                                             |
|         | <b>Employer</b> | B.Praveen<br>Balakrishnan,<br>Senior Associate<br>Projects,<br>Cognizant<br>Technology<br>Solution,<br>Coimbatore. | May remove<br>dynamic<br>programming in<br>CS614                                                                                                                                                                                                                                                                                | It is not removed<br>since it is basic<br>things to solve<br>complex<br>problem |
|         | <b>Public</b>   | Dr.S.Maragatham,<br>Professor & Head<br>Avinashilingam<br>University                                               | Survey camp to be<br>introduced in VI<br>Semester                                                                                                                                                                                                                                                                               | Suggestion has<br>been included                                                 |
| 2016-17 | <b>Industry</b> | Mr. P. Mohanraj<br>Professor<br>Karpagam College<br>of Engineering,<br>Coimbatore                                  | <ul style="list-style-type: none"> <li>Members have suggested not to include abbreviations in the curriculum</li> <li>Members have suggested few inclusions and exclusions in lab practices and contents in theory course.</li> <li>Members have suggested to include few books under text books and reference books</li> </ul> | The suggestions have been carried out and got approved in the Academic Council. |
|         |                 | Dr.T.Anbalagan<br>Senior Project<br>Manager<br>Robert BOSCH Ltd<br>Coimbatore.                                     | Microprocessor and<br>Microcontroller<br>Applications:<br>Raspberry Pi can be<br>added in any one of<br>the unit.<br>Text book and<br>Reference book can                                                                                                                                                                        | Suggestions included in the<br>CBCS-2016<br>curriculum                          |

|  |                 |                                                            |                                                                                                                                                                                     |                                                                                                                  |
|--|-----------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|  |                 |                                                            | be updated to recent reprints.                                                                                                                                                      |                                                                                                                  |
|  | <b>Industry</b> | Dr.L.S.Jayagopal<br>Mithran<br>Constructions<br>Coimbatore | Design of steel structures major revision has been made                                                                                                                             | Suggestions included in the CBCS-2016 curriculum                                                                 |
|  |                 | Mr.S.Sumeet Jain<br>Rolls Roy<br>Bangalore                 | Mr.S.Sumeet Jain has suggested including some more one credit courses along with certain industrial practices for Additive manufacturing / Rapid prototyping and Industrial safety. | Process has been initiated to identify the suitable industrial experts to design and offer the suggested courses |

**ANNEXURE -1.2**  
**COURSES OFFERED IN MODULAR FORM**

| <b>Year</b> | <b>Topic</b>                                                            | <b>Beneficiaries</b> |
|-------------|-------------------------------------------------------------------------|----------------------|
| 2012-13     | IBM Projects                                                            | 111                  |
|             | High Performance Computing & Cyber Security                             | 300                  |
|             | Formal Language and Automata Theory                                     | 93                   |
|             | Data structures                                                         | 101                  |
|             | Disaster Management                                                     | 99                   |
|             | Wireless Networks                                                       | 85                   |
|             | Routing Protocols                                                       | 102                  |
|             | Manet                                                                   | 110                  |
|             | Pervasive Computing                                                     | 89                   |
|             | M to M Technology                                                       | 95                   |
|             | WAP                                                                     | 110                  |
|             | Hands on Training on NS2                                                | 86                   |
|             | WAP                                                                     | 93                   |
|             | Pervasive Computing                                                     | 112                  |
|             | MAC                                                                     | 101                  |
|             | Mobile IP, Mobile TCP,DHCP,GPRS                                         | 108                  |
|             | Overseas Education                                                      | 66                   |
|             | Programmable logic controllers                                          | 67                   |
|             | Electric Drives and control lab                                         | 67                   |
|             | Awareness Program on GATE- Exam                                         | 65                   |
|             | Career Development Programme                                            | 103                  |
|             | Multimedia                                                              | 99                   |
|             | Formal Language and Automata Theory                                     | 93                   |
|             | Catia                                                                   | 58                   |
|             | Application of Creo software for Aerospace and Aeronautical Engineering | 56                   |
|             | Association inauguration                                                | 60                   |
|             | Seminar on “Gas turbine application in air breathing engine”            | 50                   |
|             | Workshop on “Effective experimentation in Mechatronics laboratory”      | 60                   |
|             | Seminar on “Advances in manufacturing sciences” AIMS 2012               | 17                   |
|             | National level symposium                                                | 130                  |
|             | Inaugural function of SAE India collegiate club                         | 244                  |
|             | Workshop on “Industrial safety and first aid program”                   | 200                  |
|             | Guest lecture on “Strength of materials”                                | 60                   |
|             | Entrepreneurship                                                        | 150                  |
|             | Wireless Network                                                        | 120                  |
|             | Signification of GATE Examination                                       | 150                  |
|             | CADENCE for Analog and DigitalDesign                                    | 150                  |
|             | Industry Ready Engineering                                              | 150                  |
|             | Fundamentals of PCB Design                                              | 120                  |
|             | Recent trends in Electronics                                            | 230                  |
|             | Application of Nanotechnology in Civil Engineering                      | 180                  |
|             | Latest Advances in Civil Engineering for Sustainable Development        | 200                  |
|             | Employability in Defense and DRDO                                       | 60                   |
|             | Roles Deliverables in Software Development Phases in Cloud Environment  | 50                   |



|         |                                                                       |     |
|---------|-----------------------------------------------------------------------|-----|
| 2013-14 | Green Computing for Sustainability                                    | 200 |
|         | Hands on Training on Mat lab & Circuits                               | 54  |
|         | Hands on Training on Automation                                       | 60  |
|         | Entrepreneurship                                                      | 150 |
|         | Wireless Network                                                      | 120 |
|         | Signification of Gate Examination                                     | 150 |
|         | Cadence for Analog and Digital Design                                 | 150 |
|         | Industry Ready Engineering                                            | 150 |
|         | Fundamentals of PCB Design                                            | 120 |
|         | Recent trends in Electronics                                          | 230 |
|         | Data Structures                                                       | 119 |
|         | Grid Computing                                                        | 65  |
|         | Linux Systems Environment                                             | 35  |
|         | Networking                                                            | 263 |
|         | Research Initiatives                                                  | 33  |
|         | Skill Enhancement                                                     | 118 |
|         | Cloud Computing                                                       | 71  |
|         | Web Technology                                                        | 133 |
|         | Ethical Hacking                                                       | 121 |
|         | Android System                                                        | 122 |
|         | Java                                                                  | 126 |
|         | Problem Identification and Solution Formation                         | 32  |
|         | Basic Electronics & PCB Design                                        | 62  |
|         | Automation using PLC, SCADA, HMI, MMI, DCS, VFD                       | 65  |
|         | Electrical Drives and Control                                         | 66  |
|         | Higher Education in India & Abroad                                    | 66  |
|         | Programmable Logic Controllers                                        | 66  |
|         | International Certificate for Management Studies(ICMS)                | 66  |
|         | Embedded System                                                       | 67  |
|         | GATE and Core job Opportunities                                       | 67  |
|         | Job opportunities in defense                                          | 133 |
|         | Embedded System and Applications                                      | 67  |
|         | Recent Trends in Industrial Automation                                | 67  |
|         | Automation and Process Control                                        | 64  |
|         | Workshop on “Effective experimentation in Mechatronics laboratory”    | 60  |
|         | Guest Lecture on “Opportunities And Avenues For ISTE Members”         | 25  |
|         | Guest Lecture on “Advancement In CFD”                                 | 15  |
| 2013-14 | Guest Lecture on “Flywheel And Turning Moment Diagram”                | 380 |
|         | Two days Workshop Robovision                                          | 230 |
|         | Inauguration on Dynamech                                              | 90  |
|         | Guest lecture on “ Emerging trends in manufacturing technology”       | 70  |
|         | Guest lecture on “Thermodynamics and its applications”                | 380 |
|         | Project Exhibition                                                    | 60  |
|         | Guest Lecture Sea Career                                              | 350 |
|         | Guest Lecture Basics Of Hydraulics                                    | 380 |
|         | Guest Lecture Prepare For GATE                                        | 230 |
|         | Guest Lecture The First Interview                                     | 90  |
|         | Guest Lecture Key Drivers and Opportunities In Solar Industries       | 70  |
|         | Alumni Guest Lecture CFD and Its applications in Engineering Industry | 350 |

|         |                                                                                               |     |
|---------|-----------------------------------------------------------------------------------------------|-----|
|         | Workshop on Higher Education and Job Opportunities in abroad                                  | 380 |
|         | Preparation for Competitive Examinations                                                      | 230 |
|         | Preparation for GATE 2016                                                                     | 90  |
|         | No smoking and health care awareness                                                          | 70  |
|         | Application of Creo software for Aerospace and Aeronautical Engineering                       | 100 |
|         | Electrical Drives and Control                                                                 | 66  |
|         | Higher Education in India & Abroad                                                            | 66  |
|         | Programmable Logic Controllers                                                                | 66  |
|         | International Certificate for Management Studies(ICMS)                                        | 66  |
|         | Embedded System                                                                               | 67  |
|         | GATE and Core job Opportunities                                                               | 67  |
|         | Job opportunities in defense                                                                  | 133 |
|         | Embedded System and Applications                                                              | 67  |
|         | Recent Trends in Industrial Automation                                                        | 67  |
|         | Electrical Drives and Control                                                                 | 66  |
|         | Workshop on Design of Experiments                                                             | 350 |
|         | Guest lecture on Non Destructive Testing                                                      | 380 |
|         | Work shop on Sheet metal 3D Modelling and training                                            | 230 |
| 2014-15 | Two days workshop on Geometrical Dimensioning& Tolerancing                                    | 90  |
|         | Two days National Level Common Technical Symposium on “SNSCT TEXPERIA ’15”                    | 70  |
|         | 6 <sup>th</sup> National Conference on Emerging Trends in Mechanical Engineering(NCETME 2015) | 300 |
|         | Inauguration on “Dynamech Association”                                                        | 299 |
|         | Guest Lecture on “Under Water Robotics                                                        | 140 |
|         | One day Workshop on Design Of Experiments Using Minitab15                                     | 50  |
|         | National Level Technical Symposium ‘Mexelerate’13                                             | 299 |
|         | Guest Lecture on “Design of JIGS and fixtures, press tools and moulds”                        | 70  |
|         | Making of an Engineer                                                                         | 200 |
|         | Industry and Internet                                                                         | 200 |
|         | PCB development & Electronics components                                                      | 67  |
|         | MATLAB Simulink                                                                               | 34  |
|         | GATE and Job Opportunities in PSU                                                             | 67  |
|         | Opportunities in Core Industries                                                              | 200 |
|         | Renewable Energy systems                                                                      | 200 |
|         | MATLAB                                                                                        | 67  |
|         | Education in Abroad                                                                           | 200 |
|         | Launching yourself into Core Industries in India and Gulf                                     | 200 |
| 2014-15 | Guest Lecture Higher education in abroad                                                      | 60  |
|         | Guest Lecture Technical Avenues on CAE                                                        | 60  |
|         | Guest Lecture Role of engineers in industrial sector                                          | 60  |
|         | AICTE sponsored Workshop                                                                      | 50  |
|         | Guest Lecture Design of Experiments                                                           | 60  |
|         | Workshop on Effective Teaching and Mentoring                                                  | 17  |
|         | Dynamech & ISTE Guest Lecture Forging Technology and Technical tour through SIFL              | 130 |
|         | IIF Inaugural function                                                                        | 244 |
|         | Conference NCETME’14                                                                          | 200 |

|         |                                                              |     |
|---------|--------------------------------------------------------------|-----|
|         | Dynamech & EDC Guest Lecture on Current Industrial Scenario  | 60  |
|         | Valedictory & Farewell                                       | 180 |
|         | Art of Living                                                | 825 |
|         | Youth: Growth Crisis and Needs                               | 197 |
|         | C Programmimg                                                | 63  |
|         | Industrial Practice                                          | 200 |
|         | PCB Design                                                   | 200 |
|         | Welcome to the world of ECE                                  | 400 |
|         | DSP Applications                                             | 200 |
|         | Core Industrial aspects of Digital Electronics               | 220 |
|         | Importance of GATE Exam and its various Opportunities        | 200 |
|         | Avenues open in communication domain                         | 53  |
|         | Analog VLSI Design and its application                       | 45  |
|         | Real Time Embedded System                                    | 220 |
|         | Sequential Circuits                                          | 220 |
|         | Design and Analysis of Asynchronous Sequential Circuits      | 240 |
|         | Industrial Robotics                                          | 300 |
|         | Electronic CAD                                               | 200 |
|         | Industrial Automation                                        | 180 |
|         | PCB Design and Fabrication                                   | 180 |
|         | ANN and its Applications                                     | 500 |
|         | Satcom Services                                              | 210 |
|         | Mobile Apps for Electronic Professionals                     | 60  |
|         | Avenues Open in MATLAB & VLSI Domain Project Areas           | 210 |
| 2014-15 | GATE Awareness                                               | 170 |
|         | Applications of Microprocessor and Microcontroller           | 150 |
|         | GATE Online Test Series                                      | 120 |
|         | Gateway to Government Exam                                   | 120 |
|         | Analysis of ECG Signal: Applied of Digital Signal Processing | 180 |
|         | Asynchronous Sequential Circuits                             | 170 |
|         | Applications of Embedded Systems                             | 150 |
|         | Advanced MATLAB                                              | 160 |
|         | Advanced Technologies of ARM Microcontroller                 | 160 |
|         | Electrical Machines                                          | 160 |
|         | Digital Signal Processing: Filter design                     | 170 |
|         | Advanced Wireless transceiver schemes                        | 180 |
|         | Waveguides and its Applications                              | 170 |
|         | Recent trends in Multicore Processor                         | 160 |
|         | Microprocessor and Microcontroller Applications              | 150 |
|         | HDL Programming for combinational & sequential circuits      | 160 |
|         | Digital Principles and System Design                         | 150 |
|         | Telecommunication Principles                                 | 30  |
|         | Industry Ready Engineers                                     | 150 |
|         | Digital Image Processing                                     | 140 |
|         | Instrumentation & Control Systems                            | 170 |
|         | Opportunities in Research and IT sector                      | 40  |
|         | Market Demand Analysis                                       | 122 |
|         | Interactive Design                                           | 90  |
|         | Oracle E-Business Suite in ERP                               | 255 |
|         | Recent Trends in IT                                          | 108 |

|         |                                                                               |     |
|---------|-------------------------------------------------------------------------------|-----|
|         | Multimedia                                                                    | 114 |
|         | Emerging Technologies and Evolution in Software Industry                      | 112 |
|         | Multimedia Tools & its Applications                                           | 144 |
|         | The Joyful Journey of Programming                                             | 151 |
|         | Big Data Analytics and Tools                                                  | 54  |
|         | Problem Finding and Inventiveness of Solutions                                | 31  |
|         | Higher studies and opportunities in Abroad                                    | 176 |
|         | Empowering Skills for Placement                                               | 142 |
|         | Hadoop and Big Data Analytic                                                  | 37  |
|         | Web Application development using HTML5, CSS3, Java Script, PHP and MYSQL     | 100 |
|         | Career Option in GATE                                                         | 150 |
|         | Photoshop                                                                     | 192 |
|         | IT Powered Automation                                                         | 122 |
|         | How to Crack the GATE Exam                                                    | 21  |
|         | Cloud Integration with Cloud IoT Paradigm                                     | 150 |
|         | Andes Embedded Processor: IoT and Wearable Technologies & Big Data Processing | 341 |
|         | Simulation Tool-NS2                                                           | 26  |
|         | Software Quality Assurance & Recent Trends in Software Development in IT      | 60  |
|         | Sensors for process Instrumentation                                           | 64  |
|         | Digital Electronics                                                           | 46  |
|         | Art & Craft                                                                   | 24  |
|         | Instrumentation Design                                                        | 55  |
|         | Introduction to CFD                                                           | 102 |
|         | Industrial Automation                                                         | 68  |
|         | Industrial Automation using Embedded system and PLC                           | 200 |
|         | Power Plant Engineering                                                       | 60  |
|         | Industrial PLC and Scada                                                      | 68  |
|         | Making of an Engineer                                                         | 200 |
|         | Industry and Internet                                                         | 200 |
|         | PCB development & Electronics components                                      | 67  |
|         | MATLAB Simulink                                                               | 34  |
|         | GATE and Job Opportunities in PSU                                             | 67  |
|         | Opportunities in Core Industries                                              | 200 |
|         | Renewable Energy systems                                                      | 200 |
|         | MATLAB                                                                        | 67  |
|         | Education in Abroad                                                           | 200 |
|         | Launching yourself into Core Industries in India and Gulf                     | 200 |
|         | 3Ds Max and Archi CADD                                                        | 75  |
|         | Structural Design                                                             | 65  |
| 2015-16 | Stress management to young technocrats                                        | 150 |
|         | Expectations of Industry from the Civil Engineering Students                  | 150 |
|         | Valuation of building                                                         | 65  |
|         | Building bye laws                                                             | 65  |
|         | Android Application Development                                               | 80  |
|         | Web Technology                                                                | 66  |
|         | Virtualization & Virtual Machine Networking                                   | 120 |
|         | Campus to Corporate                                                           | 130 |

|         |                                                                                                  |     |
|---------|--------------------------------------------------------------------------------------------------|-----|
|         | Expectations on Industrial Needs                                                                 | 120 |
|         | Operating Systems Concepts                                                                       | 145 |
|         | Embedded Systems in C                                                                            | 80  |
|         | IT204-Design and Analysis of Algorithms                                                          | 143 |
|         | How to improve the technical skills to face interviews                                           | 89  |
|         | “Enhancement in Research and Scientific Writing”                                                 | 40  |
|         | Industry Focused Web Services                                                                    | 150 |
|         | Enhancing Research Excellence                                                                    | 32  |
|         | Python Programming                                                                               | 130 |
|         | PC Hardware and Trouble Shooting                                                                 | 183 |
|         | Cost Benefit Analysis                                                                            | 130 |
|         | Generic & Concurrent Programming                                                                 | 150 |
|         | Cloud Networking                                                                                 | 150 |
|         | Ethical Hacking                                                                                  | 192 |
|         | International Seminar Research Trends and Opportunities in Internet-of-Things                    | 150 |
|         | Job Opportunities and Higher Studies in Gulf Countries                                           | 150 |
|         | Cancer Cells Detection using Image Processing Techniques                                         | 130 |
|         | Joyful Journey of Programming                                                                    | 142 |
|         | Effective Writing of Research Paper                                                              | 162 |
|         | Infosys Students Foundation Program                                                              | 50  |
|         | Scaling up of Procedural way of Programming into Object Oriented Programming                     | 170 |
| 2015-16 | Undecidability in Theory of Computation                                                          | 141 |
|         | Enhancing new Technologies into Object Oriented Programming                                      | 172 |
|         | Software Engineering                                                                             | 126 |
|         | Recent Development and Emerging Trends in Research Methodology                                   | 122 |
|         | Enterprise Application Deployment on Web logic Application Server                                | 124 |
|         | IoT - Smart City Perspective                                                                     | 120 |
|         | Programming on PHP                                                                               | 125 |
|         | AJAX and Web Services                                                                            | 112 |
|         | Cloud Computing                                                                                  | 107 |
|         | Object Oriented Analysis and Design                                                              | 62  |
|         | Unified Functional Testing                                                                       | 30  |
|         | Grid Computing                                                                                   | 55  |
|         | Artificial Intelligence                                                                          | 113 |
|         | Career Development & Guidance                                                                    | 90  |
|         | Anti lock Braking System (ABS)                                                                   | 85  |
|         | ANSYS - Collision Technology & CFD                                                               | 60  |
|         | Aerodynamic Design & Collision Testing of Vehicle / Aircraft using ANSYS Explicit Dynamics & CFD | 40  |
|         | Inagural Function Of Mechanical Engineering Association                                          | 320 |
|         | Career Mapping with Self Analysis-Psychological Approach”                                        | 90  |
|         | Spring Application In Automation                                                                 | 80  |
|         | Opportunities in Indian Navy                                                                     | 90  |
|         | Construction and Operational Management in Thermal Power Plant                                   | 76  |
|         | Tips for an Interview and Effective Resume writing                                               | 370 |
|         | NX CAM                                                                                           | 120 |
|         | Issues & Challenges in Solar Thermal Energy Systems                                              | 280 |
|         | Logistics & Supply Chain Management in Industries                                                | 150 |

|         |                                                                                                             |     |
|---------|-------------------------------------------------------------------------------------------------------------|-----|
|         | Pursuing Effective Research and Paper Writing                                                               | 70  |
|         | How to develop yourself in your future                                                                      | 350 |
|         | Motivational Talk by Industry Experts                                                                       | 380 |
|         | Engineer's Day                                                                                              | 230 |
|         | Patenting Your Technology                                                                                   | 90  |
|         | Technological Advancement In Mechanical Sciences-TAMS2015                                                   | 70  |
|         | Technological Advancements in Thermal Science                                                               | 350 |
| 2015-16 | Recent Improvements made in Manufacturing & Machining Sciences                                              | 380 |
|         | Precise Manufacturing Techniques                                                                            | 230 |
|         | Lean Manufacturing and Agile Manufacturing                                                                  | 90  |
|         | All about GATE                                                                                              | 70  |
|         | Brief Introduction To Upstream Industries & Present Indian Scenario                                         | 70  |
|         | Texperia 15-16                                                                                              | 350 |
|         | Design of Bearing & Its Application                                                                         | 380 |
|         | Electronics & Microprocessors                                                                               | 230 |
|         | Present Job Scenario in Industries                                                                          | 90  |
|         | Preparation for Competitive Exams and Carrier Guidance                                                      | 70  |
|         | Industry Needs and its Applications                                                                         | 230 |
|         | Engineering Mechanics                                                                                       | 50  |
|         | Design of Transmission system                                                                               | 55  |
|         | Geometrical Dimensioning & Tolerancing                                                                      | 30  |
|         | Energy Audit                                                                                                | 380 |
|         | Project Contest and Talent Show-2K16                                                                        | 230 |
|         | Automation in Production                                                                                    | 90  |
|         | Vehicle Pollution control                                                                                   | 70  |
|         | Optimization Techniques for Engineering Research                                                            | 120 |
|         | Lean Manufacturing And Six Sigma                                                                            | 280 |
|         | Mechanical and Building Sciences – ICMBS 2016                                                               | 150 |
|         | IT Usage in Manufacturing Industries                                                                        | 70  |
|         | System Application Product                                                                                  | 230 |
|         | Advanced Technology in CNC & its programming                                                                | 90  |
|         | Valedictory of Dynamech & Farewell Function                                                                 | 70  |
|         | Mass Transfer                                                                                               | 230 |
|         | Evaluation of Seed Money Project Proposals of Mechanical Stream                                             | 55  |
|         | Anna Aluminium Company, Kochin                                                                              | 55  |
|         | Light compact aircraft system development                                                                   | 115 |
|         | Career opportunities in mechanical CADD                                                                     | 43  |
|         | Student Pilot Licence                                                                                       | 69  |
|         | Non-Destructive Testing                                                                                     | 43  |
|         | Optimization for Impact resistance by Composite Design of Aircraft Structures using ANSYS Explicit Dynamics | 43  |
|         | Importance Of Wind And Solar Energy                                                                         | 200 |
|         | PLC Automation                                                                                              | 67  |
|         | Renewable Energy & Grid Intallation Challenges & Latest Mitigation Techniques                               | 67  |
|         | Key Drivers & Opportunities In Solar Pv System                                                              | 67  |
|         | Solar-Wind Grid Integration Issues                                                                          | 67  |
|         | Opportunities In Abroad                                                                                     | 133 |
|         | High Voltage DC Transmission                                                                                | 17  |
|         | Basics Of Electricals                                                                                       | 67  |

|         |                                                                                                                          |     |
|---------|--------------------------------------------------------------------------------------------------------------------------|-----|
|         | Electromagnetic Induction                                                                                                | 67  |
|         | VHDL Programming Language                                                                                                | 67  |
|         | Special Electrical Machines                                                                                              | 68  |
|         | Higher Studies In Abroad                                                                                                 | 67  |
|         | Advancements In Microprocessors And Micro Controllers                                                                    | 67  |
|         | Tactics to crack GATE exams                                                                                              | 67  |
|         | GATE and Job opportunities in PSU                                                                                        | 67  |
|         | Career Opportunities for Engineers                                                                                       | 68  |
|         | Consolidation of Soil                                                                                                    | 200 |
|         | NDT Techniques on RCC Structures                                                                                         | 100 |
|         | Intelligent Transportation System                                                                                        | 90  |
|         | Advanced Design of Structures                                                                                            | 70  |
|         | Quantity surveying and estimation                                                                                        | 72  |
|         | Solar PV cell based UPS                                                                                                  | 67  |
|         | Introduction to MATLAB - Simulink                                                                                        | 67  |
|         | LED based Illuminaries                                                                                                   | 67  |
|         | Internet of Things (IOT)                                                                                                 | 67  |
| 2015-16 | Student Pilot Licence                                                                                                    | 69  |
|         | Non-Destructive Testing                                                                                                  | 43  |
|         | Optimization for Impact resistance by Composite Design of Aircraft Structures using ANSYS Explicit Dynamics              | 43  |
|         | Optimization for High Performance of Aircraft Structures using CFD                                                       | 69  |
|         | Application of Creo software for Aerospace and Aeronautical Engineering                                                  | 46  |
|         | UAV design and autopilot programming (fixed wing)                                                                        | 60  |
|         | Embedded System and Robotics                                                                                             | 67  |
|         | Dreams and Aspirations                                                                                                   | 67  |
| 2016-17 | Network Application Architectures                                                                                        | 10  |
|         | Data Mining and Warehousing                                                                                              | 200 |
|         | Advanced Java Programming                                                                                                | 34  |
|         | Life Cycle in Information Technology                                                                                     | 191 |
|         | Dot NET                                                                                                                  | 73  |
|         | Hands on Training on PLC using GE and Horner Kits                                                                        | 60  |
|         | Hands on training on MATLAB scripting and Simulink environment.                                                          | 50  |
|         | Hands on Training in embedded system using at mega 16 development board                                                  | 61  |
|         | Medical Electronics                                                                                                      | 46  |
|         | Electrical Machines                                                                                                      | 46  |
|         | Orientation towards programming skills for placement                                                                     | 138 |
|         | Job opportunities and Higher studies in gulf countries                                                                   | 236 |
|         | Data Acquisition from field devices and its control using PLC                                                            | 46  |
|         | Tool and Die Design using Reverse Engineering Concept                                                                    | 96  |
|         | FEA Application In Structural Engineering                                                                                | 85  |
|         | Quantity Take Off                                                                                                        | 65  |
|         | Recent Trends In Concrete Structures (RTCS '16)                                                                          | 120 |
|         | Recent Environmental Issues and Management and planted trees in our college campus in the memory of Dr.A.P.J.Abdul Kalam | 210 |
|         | Field expectations in Civil Engineering                                                                                  | 160 |
|         | Scope of Business Entrepreneurship for Civil Engineers in Current Trend                                                  | 75  |

|  |                                                       |     |
|--|-------------------------------------------------------|-----|
|  | Civil Engineer Building Construction Process          | 70  |
|  | Civil Engineer Opportunities And Qualities            | 72  |
|  | FEM application In Civil Engineering Department       | 35  |
|  | Tool and Die Design using Reverse Engineering Concept | 96  |
|  | IT Usage in Manufacturing Industries                  | 70  |
|  | System Application Product                            | 230 |
|  | Advanced Technology in CNC & its programming          | 90  |
|  | Mass Transfer                                         | 230 |



### ANNEXURE -1.3

#### DETAILS OF VALUE ADDED COURSES

| Academic Year | Name of the course                                     | Course offered to the students (Mention year eg II year) | No. of beneficiaries | Outcome                                                                                                       |
|---------------|--------------------------------------------------------|----------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------|
| 2012-13       | CATIA                                                  | II YEAR                                                  | 58                   | Get Knowledge about Designing Software                                                                        |
|               | 3Ds max Archi CADD                                     | III Year and IV Year                                     | 64+70                | Gained Knowledge                                                                                              |
|               | RTL to GDSII Design                                    | III year                                                 | 75                   | Get Knowledge about Design                                                                                    |
|               | Soft skill Development or Placement Training Programme | III Year and II Year MCA                                 | 111                  | Get Knowledge about Soft skill                                                                                |
|               | C, C++                                                 | II Year                                                  | 51                   | Helped students to enrich knowledge on programming languages                                                  |
|               | Java. J2EE                                             | III Year                                                 | 67                   | Helped students to implement projects                                                                         |
|               | C# .NET                                                | IV Year                                                  | 63                   | Implementation of projects in Real time application                                                           |
|               | LABVIEW 50 Hrs/ Stu                                    | IV Year                                                  | 36                   | Helped students to enrich knowledge on LABVIEW                                                                |
|               | RTL to GDSII Design                                    | III year                                                 | 75                   | Get idea about designing                                                                                      |
|               | PRO-E, CAD                                             | III                                                      | 101                  | Students able to solve complex problem and and develop the three dimensional model for real time applications |
| 2013-14       | Hands on Training in Embedded System                   | III year                                                 | 60                   | Hands on Training in Embedded System                                                                          |
|               | PCB Design                                             | II year                                                  | 50                   | PCB Design                                                                                                    |
|               | Hands on Training in Embedded System                   | III year                                                 | 60                   | Hands on Training in Embedded System                                                                          |
|               | PCB Design                                             | II year                                                  | 50                   | PCB Design                                                                                                    |
|               | Soft skill Development or Placement Training Programme | III Year and II Year MCA                                 | 109                  | Get Knowledge about Soft skill                                                                                |

|                |                                                                                          |                      |     |                                                                                                                                                                      |
|----------------|------------------------------------------------------------------------------------------|----------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | C and Data Structures                                                                    | II Year              | 54  | Implementation of applications of linear and non linear data structure and applying data structure to specified problem                                              |
|                | Java                                                                                     | III Year             | 51  | apply the server side programming with database technologies                                                                                                         |
|                | C# .NET                                                                                  | IV Year              | 67  | a common platform for all the supported languages using libraries                                                                                                    |
|                | CATIA                                                                                    | II Year              | 58  | Get Knowledge about Designing Software                                                                                                                               |
|                | Embedded Systems Design<br>50 Hrs / Stu                                                  | II Year              | 53  | Get Knowledge about Embedded Systems Design                                                                                                                          |
|                | Program on chip level service and repair of cell phones<br>Entire Semester / 12 Hrs/ stu | II Year and III Year | 112 | Get Knowledge about Program on chip level                                                                                                                            |
|                | 3Ds max and Archi CADD                                                                   | III Year and IV Year | 70  | Gained Knowledge about real time applications.                                                                                                                       |
|                | PROE                                                                                     | III                  | 49  | Students are able to solve complex problem and develop the three dimensional model for real time applications                                                        |
| <b>2014-15</b> | PRO-E                                                                                    | II,III & IV year     | 25  | Students able to solve complexproblem and develop thethree dimensional model for real time applications. These courses enhances placement opportunities to students. |
|                | CFD                                                                                      | IV year              | 11  | Students able to solve real time problem and develop real time applications. These courses enhances placement opportunities to students.                             |
|                | STAAD Pro.                                                                               | III Year             | 68  | Gained Knowledge and 1 student got placed                                                                                                                            |
|                | C and Data Structures                                                                    | II Year              | 48  | Develop problem solving techniques of computer algorithms and to apply data structure to specified                                                                   |

|                |                                                      |                  |    |                                                                                                                                                                             |
|----------------|------------------------------------------------------|------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2014-15</b> |                                                      |                  |    | problem                                                                                                                                                                     |
|                | Java Programming                                     | III Year         | 52 | Helps in implementing real time applications and online transfer of messages                                                                                                |
|                | C# .NET                                              | IV Year          | 51 | a common platform for all the supported languages using libraries                                                                                                           |
|                | CATIA                                                | II Year          | 43 | Get Knowledge about Designing Software                                                                                                                                      |
|                | PLC and SCADA                                        | II Year          | 68 | Gained Knowledge in PLC and SCADA                                                                                                                                           |
|                | Hands on Training in Embedded System                 | III year         | 60 | Mini project                                                                                                                                                                |
|                | PCB Design                                           | II year          | 50 | Mini project                                                                                                                                                                |
|                | STAAD Pro.                                           | III Year         | 68 | Gained Knowledge and 1 student Placed                                                                                                                                       |
|                | PROE                                                 | II,III & IV year | 25 | Students able to solve complex problem and                                                                                                                                  |
|                | CFD                                                  | IV year          | 11 | Students able to and a develop the three dimensional model for real time applications                                                                                       |
| <b>2015-16</b> | Relay based Automation, PLC and SCADA<br>24 Hrs/ stu | IV year          | 55 | Students able to solve complex problem and and develop the three dimensional model for real time applications. These courses enhances placement opportunities to students . |
|                | ANSYS                                                | II,III & IV year | 11 | Students able to solve complex problem and and develop the three dimensional model for real time applications. These courses enhances placement opportunities to students . |
|                | CFD                                                  | IV year          | 15 | Students able to solve complex problem and and develop the three dimensional model for real time applications. These courses enhances placement opportunities to students . |
|                | E-Tabs and                                           | III Year         | 35 | Gained Knowledge about                                                                                                                                                      |

|  |                                       |                   |    |                                                                                                                   |
|--|---------------------------------------|-------------------|----|-------------------------------------------------------------------------------------------------------------------|
|  | Primavera                             |                   |    | Steel Structural applications.                                                                                    |
|  | CATIA                                 | II & III Year     | 25 | Upgrade their 3D modeling design skill                                                                            |
|  | CREO                                  | II & III Year     | 25 | Upgrade their 3D modeling design skill                                                                            |
|  | Financial Derivatives                 | II Year MBA       | 37 | 14 Students got placed in HCL in derivatives as Financial Analyst.                                                |
|  | Banking and Insurance                 | II Year MBA       | 15 | 4 Students got placed in City Union Bank                                                                          |
|  | C Programming                         | II Year           | 20 | Get Knowledge about Programming                                                                                   |
|  | Antenna Design                        | III Year          | 10 | Get Knowledge about Design                                                                                        |
|  | PCB Design                            | II Year           | 60 | Get Knowledge about Design                                                                                        |
|  | Load Control and DGR                  | II, III & IV Year | 21 | Get knowledge about load calculation in Boeing and Airbus                                                         |
|  | C and HTML                            | II Year           | 49 | Helps to develop remote applications with database technology                                                     |
|  | C and data structures                 | III Year          | 48 | Helps to perform correct and efficient ways of solving problems                                                   |
|  | PHP & MySQL                           | III Year          | 48 | Helps to develop web based software applications and interact with database.                                      |
|  | CATIA                                 | II Year           | 26 | Get the Knowledge about Designing Software                                                                        |
|  | Relay based Automation, PLC and SCADA | II Year           | 55 | Get the Knowledge about Relay based Automation                                                                    |
|  | C Programming                         | II year           | 20 | Mini project and Paper publication                                                                                |
|  | Antenna Design                        | III year          | 10 | Mini project and Paper publication                                                                                |
|  | PCB Design                            | II year           | 60 | Mini project and Paper publication                                                                                |
|  | E-Tabs and Primavera                  | III Year          | 35 | Gained Knowledge                                                                                                  |
|  | CREO                                  | II,III & IV year  | 75 | Students are able to solve complex problem and and develop the three dimensional model for real time applications |
|  | ANSYS                                 | II,III & IV year  | 11 | Students able to solve complex problem &                                                                          |

|                |                      |                             |    |                                                                                                               |
|----------------|----------------------|-----------------------------|----|---------------------------------------------------------------------------------------------------------------|
|                |                      |                             |    | develop the three dimensional model for real time solution                                                    |
|                | CFD                  | IV year                     | 15 | Students able to solve complex problem and and develop the three dimensional model for real time applications |
| <b>2016-17</b> | Load Control and DGR | II, III & IV Year           | 21 | Get Knowledge about Load calculation and DGR                                                                  |
|                | CREO                 | II Year Mech, III Year Mech | 60 | Get Knowledge about CAD Technology                                                                            |
|                | Vedic Mathematic     | II year                     | 22 | Problem solving skills and Mini project                                                                       |
|                | PCB Design           | III year                    | 10 | Problem solving skills and Mini project                                                                       |
|                | CCNA                 | II,III year                 | 16 | Problem solving skills and Mini project                                                                       |
|                | Primavera            | IV year                     | 35 | Gained Knowledge in software                                                                                  |

**ANNEXURE -1.4**  
**FEEDBACK AND ITS OUTCOME FOR CURRICULUM ENRICHMENT**

| Year    | Bodies   | Name of the expert with affiliation                                                       | Notable feedback                                             | Action taken on feedback                                                                   |
|---------|----------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 2013-14 | Industry | Mr.Saravana kumar, Cognos Specialist, iNoble Solutions, Coimbatore                        | Advised to introduce Business Intelligence course            | Introduced as elective course in the curriculum                                            |
|         |          | Mr. Sivaprakasam, Founder Director, Realworks studios limited, Coimbatore                 | Introduce 3D animation techniques in multimedia course       | Included 3D graphics concepts introduced in Unit 2 of Graphics and Multimedia course       |
|         |          | Mr.Quin Singh Janner, Senior Analyst for Recruitment, Accenture India Pvt.,Ltd, Bangalore | Include more statistical and scientific concepts for CS102   | All major parts of C language are included                                                 |
|         |          | Mr.Leo Sarni Vincentraj Managing Director AV properties India Pvt Ltd coimbatore          | Title for Surveying laboratory has to be Modified            | The title has been changed as Survey practical-I and Survey practical-II                   |
|         | Alumni   | Mr. Sivakumar M, Team lead, Applied Automation System, Coimbatore                         | Advised to introduce mobile application development course   | Introduced Composing Mobile applications course in semester V                              |
|         |          | Selvamariappan.C, Technical Consultant, CTS, Coimbatore                                   | Advised to introduce C# and .NET Programming                 | Introduced C# and .NET Programming course in Semester V                                    |
|         | Employer | Mr.Suresh Business Development Officier M Model India Pvt Ltd                             | In CS201, may include input and output functions for C++     | This will covered in first part of unit I itself so not mentioned in syllabus specifically |
|         | Industry | Mr.Mayank Gupta, Team Member Relations Site Lead, Dell International Services,Coimbatore  | To include more experiments in mobile development laboratory | Mobile app projects were implemented                                                       |
|         |          | Mr. P. Mohan raj Director, MM Gears,                                                      | Suggested to combine two courses automotive petrol           | Two courses were combined as a single course                                               |

|         |                    |                                                                                                                      |                                                                                                                                            |                                                                                   |
|---------|--------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 2013-14 |                    | Coimbatore.                                                                                                          | engines and automotive diesel engines as a single course                                                                                   |                                                                                   |
|         |                    | Mr.Aravindan,<br>Director, Agam Solutions, Cluster Group, Coimbatore                                                 | Include WPF controls in .NET course                                                                                                        | Introduced WPF in UNIT V of C# and .NET Programming                               |
|         |                    | Mr.Bharathi Selvaraj,<br>Cloud Engineer, Tech Mahindra, Bangalore                                                    | In CS620, does not need parallel processing systems, cloud and grid                                                                        | Removed from Unit II                                                              |
|         |                    | Mr.P.Mohanraj<br>Director, MM Gears, Coimbatore.                                                                     | Members have suggested for changing the Subject name as mini project and comprehension instead of mini project and comprehension / seminar | The suggestion has been incorporated.                                             |
|         | University Nominee | Dr.K.Jayaraman<br>Professor Eminence, Aero,MIT Chennai.                                                              | Advised to include Theory of Elasticity as a core subject                                                                                  | Implemented                                                                       |
|         |                    |                                                                                                                      | Advised to include the subject Theory of Vibration in the Curriculum                                                                       | Implemented as Elective                                                           |
|         |                    | M.Murali (2008-11),<br>ALHOSNI International, Muscat                                                                 | Advanced java technologies to be included in programming course                                                                            | Advanced java technologies like Java beans, EJB introduce in Enterprise computing |
|         | Alumni             | S.Rangaramanujam<br>Engineer, Mechanical design, Robert Bosch Engineering and Business Solutions Limited, Coimbatore | Suggested to combine two courses automotive chassis components lab and automotive engines components lab as a single course                | Two courses were combined as a single course                                      |
|         |                    | Ms.K.Anusindhiya<br>Alumni                                                                                           | Advanced Subject can be included                                                                                                           | Advanced Flight Dynamics & Advanced Propulsion Systems is Included as Elective    |
|         | Employer           | Mr.Selva Ganesh,<br>Managing partner, iNoble Solutions, Coimbatore                                                   | Advised to introduce open source courses like PHP and Python                                                                               | Open source lab with PHP and Python lab exercises introduced in                   |

|         |                           |                                                                                                                       |                                                                                                             |                                                                       |
|---------|---------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 2013-14 |                           |                                                                                                                       |                                                                                                             | Semester V                                                            |
|         | <b>University Nominee</b> | Dr.N.Devarajan<br>Professor, EEE,<br>GCT, coimbatore                                                                  | Shall provide different course mane for UG and PG for “Special Electrical Machines”                         | Course title changed                                                  |
|         | <b>Industry</b>           | Mr.S.Lakshmanan<br>Manager,<br>ELGI Equipments,<br>Coimbatore.                                                        | Shall shift “Power plant Engineering” to IV sem instead of III sem                                          | The course is shifted                                                 |
|         | <b>Faculty</b>            | Dr.S.Uma Maheswari<br>Associate Professor,<br>Department of ECE,<br>Coimbatore Institute of Technology,<br>Coimbatore | Amplitude and frequency modulation shall be included in “BEEE” course                                       | This topic is included                                                |
|         | <b>Faculty</b>            | Dr.S.Manoharan<br>Professor<br>Karpagam College of Engineering,<br>Coimbatore                                         | Shall incorporate min 10 experiments in all laboratory courses                                              | A minimum of 10 experiments is maintained in all laboratory courses   |
| 2014-15 | <b>Industry</b>           | Mr.Murali,<br>Superfect solutions,<br>Coimbatore                                                                      | To include concepts based on Big data                                                                       | Big data concepts were included                                       |
|         |                           | Managing Director,<br>Orbits Automation,<br>Coimbatore                                                                | Industry based knowledge is lagging for the students.                                                       | Planned to conduct industrial guest lecture                           |
|         |                           | Mr. P. Mohan raj<br>Texmo,Coimbatore                                                                                  | Suggested to combine two courses automotive petrol engines and automotive diesel engines as a single course | Two courses were combined as a single course                          |
|         |                           | Mk.K.Selvaraj<br>Hi-Tech CNC Automation & Hi-Tech Machining Centre<br>Coimbatore                                      | Add some advanced topics in Engineering Drawing                                                             | In Engineering Drawing the concept of machine drawing are implemented |
|         |                           | Mr.Leo Sarni<br>Vincentraj<br>Managing Director<br>AV properties India Pvt Ltd<br>Coimbatore                          | In the course survey camp Highway project to be changed to Road Alignment                                   | Suggestion has been included                                          |
|         |                           | Mr.Jawahar,<br>Graphics Designer,<br>Chennai                                                                          | To include concepts on graphics in elective course.                                                         | Graphics concepts were included.                                      |
|         |                           | Sathya.V, Data Analyst,<br>Vetricurl Pvt. Ltd.,<br>Coimbatore                                                         | Advised to have linux courses in curriculum                                                                 | Introduced as open elective in semester V                             |
|         |                           | S.Rangaramanujam<br>Engineer, Mechanical Design,Robert Bosch                                                          | Suggested to combine two courses automotive chassis                                                         | Two courses were combined as a single course                          |



|  |                           |                                                                                                                       |                                                                                                                                                              |                                                               |
|--|---------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
|  | <b>Alumni</b>             | Engineering and Business Solutions Limited,Cbe .                                                                      | components lab and automotive engines components lab as a single course                                                                                      |                                                               |
|  |                           | Dhivaneswaran.S<br>Software Engineer<br>HCL Ltd                                                                       | In CS412, may include knowledge about some wireless technology<br>Move GPRS technology to unit III                                                           | Bluetooth is included.<br>GPRS is moved to unit III           |
|  | <b>Employer</b>           | Mr.G.Ravishankar,<br>Senior Hardware Architect,<br>HCL Info systems Ltd,<br>Noida                                     | To develop applications as mini project and include in the course                                                                                            | Included mini project as course                               |
|  |                           | Mr.K.S. Rajaprakash<br>Center Head (CH),<br>NIIT, Coimbatore.                                                         | In CS409, include OSI model in Unit I<br>Include Karn's Algorithm                                                                                            | It is included in the syllabus                                |
|  | <b>Industry</b>           | Mr.S.Lakshmanan<br>Manager,ELGI Equipments,<br>Coimbatore.                                                            | Shall include "speed control and braking of Single phase IM" in the course Electrical Machine and drives                                                     | This topic is included                                        |
|  | <b>Faculty</b>            | Dr.S.Uma Maheswari<br>AssociateProfessor,<br>Department of ECE,<br>Coimbatore Institute of Technology,<br>Coimbatore. | Suggested to have five outcomes for all five units (one per unit) for the courses                                                                            | It is in consideration and will be adopted in sequence manner |
|  |                           | Dr.S.Manoharan<br>Professor<br>Karpagam College of Engineering, Coimbatore                                            | Suggested to remove the unit numbers mentioned in the text books and reference books section.                                                                | Unit numbers are removed                                      |
|  | <b>University Nominee</b> | Dr.N.Devarajan<br>Professor, EEE,<br>GCT, Coimbatore                                                                  | Shall include "Power System Stability by E.W.Kimbark Book" as text book for the course Advanced Power system dynamics                                        | This book is included                                         |
|  | <b>University Nominee</b> | Dr.K.Jayaraman<br>Professor Eminence,<br>Aero,<br>MIT Chennai.                                                        | Advised to change the Thermodynamics and Heat transfer in to Aero Engineering Thermodynamics and heat transfer topics are remove and make a separate subject | Implemented and Heat transfer subject was include as Elective |
|  |                           | Mr.Muthukumar<br>Valavandhan                                                                                          | To include computer hardware and                                                                                                                             | The course has been included                                  |

|         |                    |                                                                                                                  |                                                                                                                                                                                                                                    |                                                                                         |
|---------|--------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 2015-16 | Industry           | Technical director, Vaanam technologies, Coimbatore                                                              | troubleshooting as new lab course in curriculum                                                                                                                                                                                    |                                                                                         |
|         |                    | Mr.Fazulul Rahman N, SEO Strategist, Founder-Managing Director, Data Crawl Global Services Pvt. Ltd., Coimbatore | Advised to include mobile commerce in Digital marketing and SEO open elective course                                                                                                                                               | Introduced mobile commerce in Digital marketing and SEO open elective course in unit IV |
|         |                    | Mk.K.Selvaraj Hi-Tech CNC Automation & Hi-Tech Machining Centre Coimbatore                                       | Advanced version of AutoCad Software can be included                                                                                                                                                                               | In CAD laboratory previous Solid Edge Software are replaced with AutoCAD                |
|         |                    | Mr.Leo Sarni Vincentraj Managing Director, AV Properties Developers, Coimbatore                                  | In the course Estimating Costing and Valuation bar Bending Schedule has to be introduced                                                                                                                                           | Bar Bending Schedule has been introduced in Unit-III                                    |
|         | University Nominee | Dr.K.Jayaraman Professor Eminence, Aero, MIT Chennai.                                                            | Advised to shifted the Experimental Techniques to semester V and Theory if Elasticity to Semester VI                                                                                                                               | Implemented                                                                             |
|         | Alumni             | Praveen.P, UST Global Technologies, Cochin.                                                                      | To combine Grid And Cloud Computing as a course                                                                                                                                                                                    | The course has been included in the curriculum                                          |
|         |                    | .Rangaramanujam Engineer, Mechanical Design Robert Bosch Engineering and Business Solutions Limited,Cbe          | <ul style="list-style-type: none"> <li>Members have suggested to include Data book in the syllabus wherever applicable</li> <li>Members have suggested to incorporate the Blooms Taxonomy for framing course objectives</li> </ul> | Suggestions have been incorporated                                                      |
|         | Employer           | Mr.Vigneshwar Dhinakaran Mozilla Decision Scientist, Musigma Innovation and Development, Bangalore               | To include topics of Finite Automata and Regular Expression Syntax Analysis in the syllabus of system software and compiler design                                                                                                 | The topics have been included                                                           |

|                |                           |                                                                                                                              |                                                                                                                                                                           |                                                                                    |
|----------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                |                           | Ms.P.Priyanka<br>Software Engineer<br>CTS                                                                                    | CS410 does not have to change. In future, can include Data warehousing and Data Mining course in the curriculum                                                           | New course can be included in department elective after BoS Approval               |
|                | <b>University Nominee</b> | Dr.N.Devarajan<br>Professor, EEE,<br>GCT, coimbatore                                                                         | Suggested to include energy storage system as an open elective course                                                                                                     | “Energy storage system and conservation” a new course is included as open elective |
|                | <b>Industry</b>           | Dr.N.Devarajan<br>Professor, EEE,<br>GCT, Coimbatore<br><br>Mr.S.Lakshmanan<br>CEO,<br>Precitron Smart System,<br>Coimbatore | Shall include “Electric Drives by Vedam Subramaniam Book” as text book for the course Electric Drives and Control                                                         | This book is included                                                              |
| <b>2016-17</b> | <b>Faculty</b>            | Dr.S.Manoharan<br>Professor<br>Karpagam College of Engineering,<br>Coimbatore                                                | Suggested to include BLDC and SRM motors and to remove servo motors in the course “Induction and Synchronous Machines”                                                    | This topic is considered                                                           |
|                | <b>Alumni</b>             | Ms.X.Bernadette<br>Evangeline<br>Alumni                                                                                      | Fundamentals of Drones can be include in Open Elective                                                                                                                    | Same has been implemented.                                                         |
|                |                           | Er. V.Subash,<br>V.Vijaya Builders,<br>coimbatore                                                                            | Field oriented topics like unit conversion and bar bending schedule in course estimation and surveying                                                                    | Same has been implemented                                                          |
|                | <b>University Nominee</b> | Dr.S.Ravichandran,<br>Professor<br>Anna University<br>Chennai                                                                | Housing Planning & Management under department electives, it was suggested to include the topics of Smart City, AMRUT and Housing                                         | Same has been implemented                                                          |
|                | <b>Subject expert</b>     | Dr.S.Lakshmi,<br>Professor<br>Anna University<br>Chennai                                                                     | Concrete Laboratory was suggested to be changed as Concrete and Highway Laboratory. It was suggested to include the experiments under Highway Laboratory such as tests on | Same has been implemented                                                          |

|  |                           |                                                                                                                                                                                                                  |                                                                                                                                                                                     |                                                                                                                  |
|--|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|  |                           |                                                                                                                                                                                                                  | aggregates and bitumen                                                                                                                                                              |                                                                                                                  |
|  | <b>Subject expert</b>     | Dr.S.Lakshmi,<br>Professor<br>Anna University<br>Chennai                                                                                                                                                         | Basics of primavera and other relevant softwares in the course Estimating, Costing and Valuation can be included                                                                    | Same has been implemented                                                                                        |
|  | <b>Industry</b>           | Mr.S.Sumeet Jain<br>Manufacturing Engineer,<br>Rolls-Royce India Pvt. Ltd,<br>Bangalore.                                                                                                                         | Mr.S.Sumeet Jain has suggested including some more one credit courses along with certain industrial practices for Additive manufacturing / Rapid prototyping and Industrial safety. | Process has been initiated to identify the suitable industrial experts to design and offer the suggested courses |
|  | <b>University Nominee</b> | Dr.K.M.Parammasivam<br>Professor- Aero dynamics<br>MIT, Chennai                                                                                                                                                  | Advised to modifies the syllabus for Mechanics of Machines subject                                                                                                                  | Implemented                                                                                                      |
|  |                           |                                                                                                                                                                                                                  | Advised to modify Credit ranges                                                                                                                                                     | Implemented                                                                                                      |
|  | <b>Industry</b>           | Dr.T.Anbalagan<br>Senior Project Manager<br>Robert BOSCH Ltd<br>Coimbatore.                                                                                                                                      | Microprocessor and Microcontroller Applications:<br>Raspberry Pi can be added in any one of the unit.<br>Text book and Reference book can be updated to recent reprints.            | Suggestions included in the CBCS-2016 curriculum                                                                 |
|  | <b>Academician</b>        | 1.Dr.M.A.Bagyaveni,<br>Professor,<br>Department of ECE,<br>Anna University,<br>Chennai.<br>2. Dr.V.R.Vijayakumar<br>Professor and Head<br>Department of ECE<br>Anna University<br>Regional Centre<br>Coimbatore. | 1.Digital Communication:<br>MSK should be added in the 4th unit.<br>2. Antenna and Wave Propagation:<br>Advanced topics such as wearable antennas can be included in the 4th unit.  | Suggestions included in the CBCS-2016 curriculum                                                                 |
|  | <b>Alumni</b>             | Mr.D.Mohan Kumar<br>Managing Director<br>Unicorn Technologies<br>Coimbatore                                                                                                                                      | VLSI Design:<br>Design, verification should also be included in the syllabus.                                                                                                       | Suggestions included in the CBCS-2016 curriculum                                                                 |

## ANNEXURE 2.1

### UG/ PG ADMISSION ELIGIBILITY AND PROCESS

#### Professional

| Sl. No.             | Course                                    | Eligibility                                                               | % mark at entry level  |
|---------------------|-------------------------------------------|---------------------------------------------------------------------------|------------------------|
| UG COURSES          |                                           |                                                                           |                        |
| 1                   | B.E./B.Tech<br>(I Year)                   | XII or Equivalent                                                         |                        |
|                     |                                           | OC                                                                        | 50                     |
|                     |                                           | BC                                                                        | 45                     |
|                     |                                           | MBC                                                                       | 40                     |
|                     |                                           | SC /ST                                                                    | 40                     |
| 2                   | B.E./B.Tech<br>Lateral Entry<br>(II Year) | Diploma in Relevant discipline                                            |                        |
|                     |                                           | OC                                                                        | 50                     |
|                     |                                           | BC                                                                        | 45                     |
|                     |                                           | MBC                                                                       | 40                     |
|                     |                                           | SC /ST                                                                    | 40                     |
| PG COURSES          |                                           |                                                                           |                        |
| 1.                  | M.E. / M.Tech.                            | Pass in<br>B.E./B.Tech.                                                   | OC – 50<br>Others – 45 |
| 2.                  | MBA                                       | Pass in any Degree                                                        |                        |
| 3                   | MCA                                       | Pass in any degree<br>with Maths as a<br>subject in Degree /<br>XII Level |                        |
| RESEARCH PROGRAMMES |                                           |                                                                           |                        |
| 1                   | Ph.D                                      | Relevant Masters<br>Degree                                                | -                      |

#### Admission process for UG Programmes

#### Admission Made Through Management Quota:

#### Eligibility Criteria for candidate with Higher Secondary Certificate (HSC) marks:

| S. No. | Community   | Marks Eligibility                                                               |
|--------|-------------|---------------------------------------------------------------------------------|
| 1      | OC          | Minimum average: 50% and above in Mathematics, Physics & Chemistry put together |
| 2      | BC/ BCM     | Minimum average: 45% and above in Mathematics, Physics & Chemistry put together |
| 3      | MBC/ DNC    | Minimum average: 40% and above in Mathematics, Physics & Chemistry put together |
| 4      | SC/ ST/ SCA | Minimum average: 40% and above in Mathematics, Physics & Chemistry put together |

#### Eligibility Criteria for Lateral entry:

| S. No. | Community   | Marks Eligibility                                                          |
|--------|-------------|----------------------------------------------------------------------------|
| 1      | OC          | Minimum average: 55% (Overall 1 <sup>st</sup> to 6 <sup>th</sup> Semester) |
| 2      | BC/ BCM     | Minimum average: 50% (Overall 1 <sup>st</sup> to 6 <sup>th</sup> Semester) |
| 3      | MBC/ DNC    | Minimum average: 45% (Overall 1 <sup>st</sup> to 6 <sup>th</sup> Semester) |
| 4      | SC/ ST/ SCA | Pass in qualifying examination                                             |

**Computation of Eligibility Criteria for Lateral entry admissions:**

| <b>Program</b>           | <b>Eligibility Criterion</b>                                             |
|--------------------------|--------------------------------------------------------------------------|
| Full time Diploma/ B.Sc. | Overall % marks obtained from 1 <sup>st</sup> sem to 6 <sup>th</sup> sem |
| Lateral Entry Diploma    | Overall % marks obtained from 3 <sup>rd</sup> sem to 6 <sup>th</sup> sem |
| Sandwich Diploma         | Overall % marks obtained from 1 <sup>st</sup> sem to 7 <sup>th</sup> sem |
| Part time Diploma        | Overall % marks obtained from 1 <sup>st</sup> sem to 8 <sup>th</sup> sem |

**Admission process for PG Programmes****Admission Made Through Management Quota**

For PG admission, 50% of seats are filled under management quota by the process as per University guidelines and Government norms. For the Management Quota seats, the COSPOSC in Tamil Nadu norms are followed.

| <b>Program</b>      | <b>Eligibility Criterion</b>                                                                                                                                                                                                                   |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M.E. / M.Tech.      | Recognised Bachelor degree or equivalent in the relevant field<br>Minimum 50% marks in the qualifying examination (45% marks for reserved category)                                                                                            |
| MCA                 | Recognised Bachelor degree or equivalent of minimum 3 years/ 4 years duration with study of Mathematics at +2 level or at graduate level<br>AMIE/ Diploma<br>Atleast 50% marks in the qualifying examination (45% marks for reserved category) |
| MCA (Lateral Entry) | Recognised Bachelor degree in BCA/ B.Sc. (CSE/ IT) of minimum 3 years duration                                                                                                                                                                 |
| MBA                 | Recognised Bachelor degree or equivalent of minimum 3 years/ 4 years duration<br>AMIE/ Diploma<br>Atleast 50% marks in the qualifying examination (45% marks for reserved category)                                                            |

**Admission process for Ph.D. Programmes**

| <b>Program</b>                  | <b>Eligibility Criterion</b>                                                                                      |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Ph.D in Engineering/ Technology | M.E/ M.Tech/ M.S (By Research) in the relevant branch of Engineering/ Technology                                  |
| Ph.D in Science & Humanities    | M.Sc/ MCA/ MA/ M.S (By Research) in the relevant branch of Science & Humanities                                   |
| Ph.D in Management Science      | MBA/ PG Diploma in Business Management or Administration awarded by IIM/ M.S (By Research ) in Management Science |

### ANNEXURE 3.1

#### EMINENT EXPERTS VISITED THE COLLEGE

| S.No | Date                       | Name of the researcher | Institution/ Industry                                                                                                     | Topic Discussed                                                  |
|------|----------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 1    | 14.09.2012                 | Dr.K.Sivakumar         | Regional Director,<br>Anna University,<br>Coimbatore                                                                      | Data mining and<br>Data warehousing in<br>Disaster<br>Management |
| 2    | 15.09.2012                 | Dr.Purusothaman        | Government College<br>of Technology,<br>Coimbatore                                                                        | Data mining and<br>Data warehousing in<br>Disaster<br>Management |
| 3    | 20.09.2012                 | Dr.N.K.Karthikeyan     | Sri Krishna College of<br>Technology                                                                                      | Data mining and<br>Data warehousing in<br>Disaster<br>Management |
| 4    | 22.01.13<br>&<br>23.01.13  | Dr.V.Lakshmi<br>Prabha | Government College<br>of Technology,<br>Coimbatore                                                                        | Cyber Crime                                                      |
| 5    | 22.01.13<br>&<br>23.01.13  | Dr.T.Purusothaman      | Government College<br>of Technology,<br>Coimbatore                                                                        | Grid and Cloud<br>Computing                                      |
| 6    | 22.01.2013 &<br>23.01.2013 | Dr.M.Sabarigiriraj     | Coimbatore Institute<br>of Engineering &<br>Technology,<br>Coimbatore                                                     | Parallel Computing                                               |
| 7    | 14.02.2013                 | Dr.S.Annadurai         | Sri Krishna College of<br>Engineering and<br>Technology,<br>Coimbatore                                                    | Advanced memory<br>management and<br>Networking                  |
| 8    | 14.02.2013                 | Dr.S.Prakash           | Sri Sakthi Institute of<br>Engineering and<br>Technology,<br>Coimbatore                                                   | Network Security                                                 |
| 9    | 14.02.2013                 | Dr.V.Vanitha           | Kumaraguru College<br>of Technology,<br>Coimbatore                                                                        | Wireless<br>Networking                                           |
| 10   | 20.07.2012 &<br>21.07.2012 | Dr.V.Arun Kumar        | Professor (P G Studies<br>and Research &<br>Development)<br>(Formerly Scientist G<br>& Head, Propulsion<br>Division, NAL) | Vibrational analysis                                             |
| 11   | 20.07.2012 &<br>21.07.2012 | Dr.P.Manjunath         | Scientist, Head<br>Propulsion Division,<br>NAL Bangalore                                                                  | Alternate Systems<br>for aviation                                |

|    |            |                      |                                                                                  |                                                      |
|----|------------|----------------------|----------------------------------------------------------------------------------|------------------------------------------------------|
| 12 | 05.04.2014 | Dr. N.Karthikeyan    | SNS College of Engineering                                                       | Problem Identification and Solution Formation        |
| 13 | 24.01.2014 | Dr.N.Karthikeyan     | SNS College of Engineering                                                       | Smart Systems                                        |
| 14 | 24.01.2014 | Dr.Murali Rangarajan | Amrita University, Coimbatore                                                    | Energy harvesting and recycling in computing context |
| 15 | 18.02.2014 | Dr.T.Purusothaman    | Government College of Technology, Coimbatore                                     | Cryptography and network security                    |
| 16 | 07-03-2014 | Dr.B.A.Saravanan     | Sri Ramakrishna Engineering College, Coimbatore                                  | Scope of Manufacturing Technology                    |
| 17 | 07-03-2014 | Dr.A.P.Senthilkumar  | PSG College of Technology, Coimbatore                                            | Heat Transfer                                        |
| 18 | 31.03.15   | Dr.K.Arumairaj       | Government College of Technology, Coimbatore                                     | -                                                    |
| 19 | 17.07.2014 | Dr. M. Kalpana       | PSG College of Technology, Coimbatore                                            | Guest Lecture on “Market Demand Analysis”            |
| 20 | 28.08.2014 | Dr. M.Hanuman Thappa | Professor and Director, Department of Computer Application, Bangalore University | Problem Finding and Inventiveness of Solutions       |
| 21 | 15.09.2014 | Dr.Manjaiah.D.H      | Professor and Chairman of BoS, Department of CSE, Mangalore University           | Open Source Tools & Technologies                     |
| 22 | 17.09.2014 | Dr.Sigurd Meldal     | Director, San José State University, California, USA.                            | Higher studies and opportunities in Abroad           |
| 23 | 06.02.2015 | Dr.K.Vishnu Kumar    | Professor & Head, CSE Department Jansons Institute of Technology                 | Cloud Integration with Cloud IoT Paradigm            |
| 24 | 30.03.2015 | Dr.T.Rajendran       | Professor & Head, Dept of CSE & IT, Chettinad College of Enging & Tech, Karur    | Operating Systems Concepts                           |
| 25 | 28.04.2015 | Dr.K.Kousalya        | Professor, Department of CSE, Kongu Engineering College, Erode                   | IT204-Design and Analysis of Algorithms              |
| 26 | 14-08-2014 | Dr. Pradeep V Desai  | G.E. Global Research India                                                       | Wireless Sensor Networks                             |



|    |                         |                        |                                                                          |                                                                                                   |
|----|-------------------------|------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 27 | 29.09.2014              | Dr.T.Senthilkumar      | Associate Professor/CSE, Amrita University, Coimbatore                   | Data structures and algorithms                                                                    |
| 28 | 29.09.2014 & 30.09.2014 | Dr.T.Senthilkumar      | Amrita University, Coimbatore                                            | HDFS & HBASE                                                                                      |
| 29 | 07.2.2015               | Dr.K.Kousalya          | Kongu Engineering College, Erode                                         | Design and Analysis of Algorithms                                                                 |
| 30 | 24.02.2015              | Dr.M.Sangeetha         | CIT, Coimbatore.                                                         | Network Programming and management                                                                |
| 31 | 25.2.15                 | DR.K.Chidananda Gowda  | Former Vice Chancellor,Kuvempu University, Karnataka                     | Soft computing                                                                                    |
| 32 | 26.02.15 & 27.02.15     | DR.D.Shridharan        | Additional Director,Anna University, Chennai                             | Network security                                                                                  |
| 33 | 26.02.15 & 27.02.15     | Dr.Chiang Yung – Chuan | Andes Technology Corporation, Taiwan                                     | Andes Embedded Processor:IOT on wearable Technologies& Sharing and Controlling Internet of things |
| 34 | 26.02.15 & 27.02.15     | Dr.T.N.Kasun De Zoysa  | University of Colombo, Srilanka                                          | IOT on wearable Technologies                                                                      |
| 35 | 26.02.15 & 27.02.15     | Dr.A.Paul              | Kyungpook University, South Korea                                        | Soft computing                                                                                    |
| 36 | 19.03.2015              | Dr.M.Pitchaimani       | Deputy Director, Space craft operations , ISTRAC/ISRO,Bengaluru          | Special Address                                                                                   |
| 37 | 14-04-2015              | Er.D.Selvaraj          | Former Deputy General Manager, Tamilnadu Energy Development Agency(TEDA) | Scope of Renewable Energy –Solar Energy                                                           |
| 38 | 14-04-2015              | Dr.V.Rathna Kishore    | Mechanical department Amrita University, Coimbatore                      | Application of CFD                                                                                |
| 39 | 23.07.15                | Dr.Moses Santha Kumar  | NIT, Trichy                                                              | Intelligent Transportation                                                                        |
| 40 | 14.09.15                | Dr.Ganesan             | NIT Calicut                                                              | NDT Techniques on RCC structures                                                                  |

|    |            |                           |                                                                                                                                 |                                                          |
|----|------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 41 | 17.07.2015 | Dr.Anand Paul             | Director, Connected Computing and Media Processing Lab, Professor, The School of CSE, Kyunpook National University, South Korea | Enhancement in Research and Scientific Writing           |
| 42 | 23.07.2015 | Dr. Seyed Mohamed Buhari  | Assistant Professor, Department of Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia.                     | Enhancing Research Excellence                            |
| 43 | 05.08.2015 | Dr. M.Kalpana             | ASP/ Department of Humanities,PSG College of Technology, Coimbatore.                                                            | Cost Benefit Analysis                                    |
| 44 | 12.08.2015 | Dr.Madhankumar Srinivasan | Assistant Director & Principal Consultant, Training & Research Unit, Global Science and Technology Forum, Singapore             | Research Trends and Opportunities in Internet-of-Things  |
| 45 | 12.08.2015 | Dr.Revathi.M              | Tata Consultancy Services, Chennai                                                                                              | Research Trends and Opportunities in IoT.                |
| 46 | 14.08.2015 | Dr. S. Neelamani          | Senior Research Scientist,Coastal Management Program,Kuwait Institute for Scientific Research,Kuwait.                           | Job Opportunities and Higher Studies in Gulf Countries   |
| 47 | 03.09.2015 | Dr.B.Padmapriya           | Assistant Professor(SG),Department of Bio Medical Engineering,PSG College of Technology,Cbe                                     | Cancer Cells Detection using Image Processing Techniques |
| 48 | 15.09.2015 | Dr.N.Karthikeyan          | Professor & Dean, Department of Science & Humanities, SNS College of Engg, Coimbatore                                           | Effective Writing of Research Paper                      |
| 49 | 19.09.2015 | Dr.K.Sangeetha            | Associate Professor/ CSE,Kongu Engineering College, Erode.                                                                      | Network Simulator-2                                      |

|    |            |                                  |                                                                                                                                           |                                                                          |
|----|------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 50 | 23.09.2015 | Dr. Ashok Rao                    | Former Head,<br>Network Project<br>CEDT, IISc<br>Bangalore, Guest<br>Faculty, IIM<br>Bangalore                                            | Big Data Processing<br>using Machine<br>Learning<br>Techniques           |
| 51 | 09.10.2015 | Dr. P. Jayanthi                  | ASP / CSE, Kongu<br>Engineering College,<br>Perundurai                                                                                    | Object Oriented<br>Programming                                           |
| 52 | 17.10.2015 | Dr.K.Umamaheswari                | Professor, PSG<br>college of<br>Technology,Cbe                                                                                            | Undecidability in<br>Theory of<br>Computation                            |
| 53 | 07.01.2016 | Dr.Vijayaraghavan<br>Viswanathan | Scientist &<br>Researcher,CERN-<br>ARDENT,Switzerland                                                                                     | Recent<br>Development &<br>Emerging Trends in<br>Research<br>Methodology |
| 54 | 20.01.2016 | Dr. Anand Paul                   | Director, CCMP Lab<br>& Professor, School<br>of CSE, Kyungpook<br>National University<br>(KNU), Daegu, South<br>Korea.                    | IOT - Smart City<br>Perspective                                          |
|    |            |                                  |                                                                                                                                           | How to Structure or<br>Formulate a Journal<br>Paper                      |
| 55 | 20.02.2016 | Dr.K.Umamaheswari                | Professor/IT,PSG<br>college of<br>Technology,<br>Coimbatore                                                                               | Object Oriented<br>Analysis and Design                                   |
| 56 | 26.02.2016 | Dr. M. Suresh<br>Kumar           | Professor/CSE, Sri<br>Ramakrishna<br>Engineering College,<br>Coimbatore                                                                   | Grid Computing                                                           |
| 57 | 05.03.2016 | Dr.M.Newlin<br>Rajkumar          | Assistant Professor,<br>Anna University<br>Regional Centre,<br>Coimbatore                                                                 | Artificial<br>Intelligence                                               |
| 58 | 17.7.2015  | Dr.AnandPaul                     | Director, Connected<br>Computing &<br>Multimedia<br>Processing Lab,<br>Professor/CSE,<br>Kyungpook National<br>University, South<br>Korea | Enhancement in<br>Research and<br>Scientific Writing                     |
| 59 | 23.7.2015  | Dr.Seyed Mohamed<br>Buhari       | King Abdulaziz<br>University(KAU),<br>Jeddah,Saudi Arabia                                                                                 | Art research article<br>writing                                          |

|    |                          |                               |                                                                                                                     |                                                                |
|----|--------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| 60 | 12.8.2015                | Dr.Madhan Kumar Srinivasan    | Assistant Director & Principal Consultant, Training & Research Unit, Global Science and Technology Forum, Singapore | Research Trends and opportunities in Internet of Things        |
| 61 | 04.02.16 & 05.02.16      | Dr.R.Kanmani                  | Sri Krishna College of Technology,Cbe                                                                               | Internet of Things                                             |
| 62 | 08.02.16                 | Dr.K.Giridhar                 | Professor, Department of Electrical Engineering,IIT Madras                                                          | Future of Wireless Technology 5G & 6G                          |
| 63 | 08.02.16                 | Dr.Radhika                    | Amrita University                                                                                                   | Software Defined Networks                                      |
| 64 | 17.02.16                 | Dr.S.Uma Maheswari            | CIT, Coimbatore                                                                                                     | Challenges in Microprocessors and Embedded Systems             |
| 65 | 07.01.2016               | Dr.Vijayaraghavan Viswanathan | Scientist &Researcher, CERN-ARDENT, Switzerland                                                                     | Recent Development and Emerging Trends in Research Methodology |
| 66 | 03-07-2015               | Dr.V.Subramaniam              | Director, Department of Textile Technology, Jaya Engineering College, Chennai                                       | Pursuing Effective Research and Paper Writing                  |
| 67 | 23-03-2016 & 24-03-2016  | Dr. Kahar Osman               | Universiti Teknologi Malaysia, Johor Bahru, Malaysia                                                                | CFD                                                            |
| 68 | 23-03-2016 & 24-03-2016  | Dr.Kua-anan Techato           | Prince of Songkla University, Hadyai, Thailand                                                                      | Environmental Management                                       |
| 69 | 23-03-2016 & 24-03-2016  | Dr.Ramasamy Kandasamy         | Centre Universiti Ton Hussein Onn Malaysia, Johor, Malaysia.                                                        | Research Prospects in Mechanical engineering                   |
| 70 | 21.07.2016               | Dr. Jeyakesavan               | Director, Center for CS Education & Outreach The University of Texas, Dallas, USA                                   | Learning CS Concepts Through Real-life Analogies & Examples    |
| 71 | 25.07.2016               | Dr.E.Govindharaj              | Professor/CSE, NES College of Engineering, Kerala                                                                   | Network Application Architectures                              |
| 72 | 08.08.2016 to 12.08.2016 | Ms. K.N.Vani                  | Principal,Campus Connect Team, Infosys Ltd., Mysore                                                                 | Advanced Java Programming                                      |

|    |                                |                   |                                                                    |                                                           |
|----|--------------------------------|-------------------|--------------------------------------------------------------------|-----------------------------------------------------------|
| 73 | 30.08.2016<br>to<br>31.08.2016 | Dr. R.R.Rajalaxmi | Professor, Dept. of<br>CSE, Kongu<br>Engineering College,<br>Erode | R Programming                                             |
| 74 | 1.08.2016                      | Dr.S.Neelamani    | Kuwait University                                                  | Research proposals<br>writing, execution<br>and pattering |

## ANNEXURE - 3.2

### DETAILS OF THE FACULTY MEMBERS ACTIVELY INVOLVED IN RESEARCH

i) List of Recognized supervisors – Ph.D (Department wise)

| S.No | Name of the Department | Name of the supervisor  | Name of the University      |
|------|------------------------|-------------------------|-----------------------------|
| 1.   | Civil                  | Dr.G.Prince Arulraj     | Anna University, Chennai    |
| 2.   | Civil                  | Dr.S.Kandasamy          | Anna University, Chennai    |
| 3.   | Civil                  | Dr.R.Anuradha           | Anna University, Chennai    |
| 4.   | CSE                    | Dr.V.P.Arunachalam      | Anna University, Chennai    |
| 5.   | CSE                    | Dr.S.Karthik            | Anna University, Chennai    |
| 6.   | CSE                    | Dr.K.Srihari            | Anna University, Chennai    |
| 7.   | ECE                    | Dr.A.Shanmugam          | Anna University, Chennai    |
| 8.   | ECE                    | Dr.D.Somasundareshwari  | Anna University, Chennai    |
| 9.   | EEE                    | Dr. S. Chenthur Pandian | Anna University, Chennai    |
| 10.  | EEE                    | Dr. R. Subramanian      | Anna University, Coimbatore |
| 11.  | EIE                    | Dr.S.Poornachandra      | Anna University, Chennai    |
| 12.  | IT                     | Dr.J.Shanthini          | Anna University, Chennai    |
| 13.  | Mech                   | Dr.P.Tamilselvam        | Anna University, Chennai    |
| 14.  | Mech                   | Dr. R.Thirumalai        | Anna University, Chennai    |
| 15.  | Mech                   | Dr.L.Savadamuthu        | Anna University, Chennai    |
| 16.  | Mech                   | Dr.M.Subramanian        | Anna University, Chennai    |
| 17.  | Mech                   | Dr.M.Shanmugaraja       | Anna University, Chennai    |
| 18.  | MBA                    | Dr.M.G.Saravanaraj      | Anna University, Chennai    |
| 19.  | MBA                    | Dr. P.Krishnaveni       | Anna University, Chennai    |
| 20.  | PHYSICS                | Dr.V.Balasubramanian    | Anna University, Chennai    |
| 21.  | Chemistry              | Dr.J.Suresh             | Anna University, Chennai    |

ii) List of Recognized supervisors – M.Phil (Department wise)

| S.No | Name of the Department | Name of the supervisor | Name of the University |
|------|------------------------|------------------------|------------------------|
| 1    | MBA                    | Dr.M.G.Saravanaraj     | Periyar University     |

iii) List of faculty members pursuing Ph.D (Department wise)

| S.No | Name of the Department | Name of the faculty member pursuing Ph.D | Area of research             |
|------|------------------------|------------------------------------------|------------------------------|
| 1.   | Automobile             | Prof.S.Gunasekharan                      | Lean and Green Manufacturing |
| 2.   | Civil                  | Mr.R.M.Karthikeyan                       | Fly ash Concrete             |
| 3.   | Civil                  | Ms.S.D.Anitha Selvasofia                 | Geo-Informatics              |
| 4.   | CSE                    | Mrs I.Kala                               | Mobile Ad hoc Networks       |
| 5.   | CSE                    | Mr A.Chandrasekar                        | Wireless Ad Hoc Networks     |
| 6.   | CSE                    | Mrs S.Dhanalakshmi                       | Image Processing             |
| 7.   | CSE                    | Mr R.Kamal Raj                           | Software Testing             |
| 8.   | CSE                    | Mrs M.Kavitha                            | Mobile Ad hoc Networks       |
| 9.   | CSE                    | Mrs K.Sangeetha                          | Data Mining                  |

|     |      |                        |                           |
|-----|------|------------------------|---------------------------|
| 10. | CSE  | Mrs B.Vinothini        | Mobile Ad-hoc Networks    |
| 11. | CSE  | Mr S.Vinoth Kumar      | Data Mining               |
| 12. | CSE  | Mr D.Prabakar          | Wireless Sensor Networks. |
| 13. | CSE  | Mr A.Christopher Paul  | Mobile Ad-hoc Networks    |
| 14. | CSE  | Mr S.Sathish Kumar     | Mobile Ad-hoc Networks    |
| 15. | CSE  | Mr C.Chandru Vignesh   | Wireless Ad-Hoc Networks. |
| 16. | CSE  | Mr.B.Santhosh Kumar    | Data Mining               |
| 17. | CSE  | Mr.C.B.Sivaparthipan   | Data mining               |
| 18. | CSE  | Ms.V.Savitha           | MANET                     |
| 19. | CSE  | Mrs.S.Vidya            | Cloud Computing           |
| 20. | CSE  | Mr.J.Alfred Daniel     | Internet of Things        |
| 21. | CSE  | Mr.Karthick            | Mobile Ad-hoc Networks    |
| 22. | CSE  | Ms.Gomathi             | Wireless Sensor Networks  |
| 23. | CSE  | Ms.Gopika              | Mobile Ad-hoc Networks    |
| 24. | CSE  | Mr.Stewart Kirubakaran | Cloud Computing           |
| 25. | CSE  | Mr.P.Sundaramoorthy    | Cloud Computing           |
| 26. | CSE  | Mrs.T.Maragatham       | Mobile Ad-hoc Networks    |
| 27. | CSE  | Mrs.M.Sumathi          | Data Mining               |
| 28. | ECE  | Mr.T.Prabakaran        | Wireless Sensor Network   |
| 29. | ECE  | Mrs.A.Sridevi          | CAD for VLSI design       |
| 30. | ECE  | Mr. V.J.Arulkarthick   | Image Processing          |
| 31. | ECE  | Mrs.J.GeethaRamani     | Wireless Communication    |
| 32. | ECE  | Mrs.J.Jayageetha       | Image Quality assessment  |
| 33. | ECE  | Mrs.B.Sivasankari      | Low power VLSI            |
| 34. | ECE  | Mr.R.Arunsekar         | Low power VLSI            |
| 35. | ECE  | Mr.A.Karthikeyan       | Wireless Sensor Network   |
| 36. | ECE  | Mr.K.Boopathiraja      | Antenna Design            |
| 37. | ECE  | Mr.N.Pradeepa          | Image Processing          |
| 38. | ECE  | Mr.T.Prabhu            | Antenna Design            |
| 39. | ECE  | Mr.S.Swamynathan       | VLSI                      |
| 40. | ECE  | Mr.G.NaveenBalaji      | VLSI                      |
| 41. | EEE  | Mr.C. Ramakrishnan     | Renewable Energy          |
| 42. | EEE  | Mr.R. Senthilkumar     | Renewable Energy          |
| 43. | EEE  | Mr.R. Rajasekaran      | Renewable Energy          |
| 44. | EEE  | Mr. R. Karthick        | Renewable Energy          |
| 45. | EEE  | Mr. R. Pradeep         | Electrical Machines       |
| 46. | EIE  | Mrs.M.Dhipa            | Networks                  |
| 47. | EIE  | Mr.N.Jeyakkannan       | Wireless Sensor Networks  |
| 48. | EIE  | Mrs.R.Kiruba           | Optimal Control           |
| 49. | EIE  | Mr.Kamalamoorthy       | Image Processing          |
| 50. | IT   | M.Kalimuthu            | Data mining               |
| 51. | IT   | Mrs.K.Rajakumari       | Cloud computing           |
| 52. | IT   | Mr.C.Senthilkumar      | Mobile Ad hoc Networks    |
| 53. | IT   | Mr.C.Mageshkumar       | Cloud computing           |
| 54. | IT   | Mr.M.Udhayamoorthi     | Mobile Ad hoc Networks    |
| 55. | IT   | Mr.J.T.Thirukrishna    | Wireless sensor Networks  |
| 56. | IT   | Mr.J.Rajeshkumar       | Optimization Technique    |
| 57. | IT   | Ms.Sangeetha           | Mobile Ad hoc Networks    |
| 58. | Mech | Mr.T.Prakash           | Composite Material        |

|     |           |                       |                            |
|-----|-----------|-----------------------|----------------------------|
| 59. | Mech      | Mr.P.Velmurugan       | Fuel Cell Technology       |
| 60. | Mech      | Mr.C.Senthilkumar     | Modern Heat Exchanger      |
| 61. | Mech      | Mr.R.Dharmalingam     | Heat Transfer              |
| 62. | Mech      | Mr.G.Tharanitharan    | Composite Material         |
| 63. | Mech      | Mr.M.Sureshkumar      | Composite Material         |
| 64. | Mech      | Mr.J.Selvakumar       | Reliability Engineering    |
| 65. | Mech      | Mr.T.Venkatajalapathi | Heat Transfer              |
| 66. | Mech      | Mr.V.R.Hariram        | Lean Engineering           |
| 67. | Mech      | Mr.C.Chinnasamy       | IC Engines                 |
| 68. | Mech      | Mr.V.S.Kaushik        | CNC Milling /Machining     |
| 69. | Mech      | Mr.A.Jeevarathinam    | Materials Engineering      |
| 70. | MCT       | Mr.R.Yasodharan       | Solar Energy               |
| 71. | MCT       | Mr.P.Devendran        | Welding Technology         |
| 72. | MBA       | Mr.V.Prabakaran       | Finance                    |
| 73. | MBA       | Mr.K.Mohankumar       | Marketing                  |
| 74. | MBA       | Mr.S.Senthikumar      | Human Resource             |
| 75. | MBA       | Mrs.R.Anitha          | Human Resource             |
| 76. | MCA       | Mr.S.Sundararjan      | Data Mining                |
| 77. | MCA       | Mr.R.Sivakumar        | Network Security           |
| 78. | MCA       | Mr.P.Thinakaran       | Cloud Computing            |
| 79. | Physics   | Mr.P.Naresh Kumar     | Dye sensitized solar cells |
| 80. | Physics   | Mr.D.Sengottaiyan     | Solar Cells                |
| 81. | Physics   | Mr.V.D.Nadhiya        | Quantum Mechanics          |
| 82. | Physics   | Mr.B.Vijayakumar      | Computational Physics      |
| 83. | Chemistry | Mrs.M.Manjula Devi    | Environmental Chemistry    |
| 84. | Chemistry | Lt.G.Pradheesh        | Natural Products           |
| 85. | Chemistry | Mr.K.Kanagamani       | Nano Chemistry             |
| 86. | Chemistry | Ms.R.Anitha           | Corrosion Studies          |
| 87. | English   | Mrs.J.Aruna Angeline  | English Literature         |
| 88. | Maths     | Ms.Fijy Jose          | Queuing Theory             |



### ANNEXURE 3.3

#### SPECIALIZED RESEARCH CENTRE/ WORK STATION

| Academic Year | Lab                                                   | Major Equipment                                                                                        | Cost     |
|---------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------|
| 2012-2013     | MBA Lab                                               | SPSS                                                                                                   | 4,00,000 |
| 2013-2014     | Cloud Lab                                             | 24- Personal Computers                                                                                 | -        |
|               | Thermal Engineering Laboratory                        | Research Engine                                                                                        | 9,87,000 |
|               |                                                       | Exhaust gas analyzer                                                                                   | 2,24,700 |
|               |                                                       | Smoke meter                                                                                            | 1,68,000 |
| 2014-2015     | Cloud Lab                                             | 24- Personal Computers                                                                                 | -        |
|               | Web Technologies Lab                                  | OSS                                                                                                    | -        |
|               | Metal Cutting Laboratory Machining / Special M/c Lab. | DRO milling machine.<br>Lathe tool dynamometer.<br>Drill tool dynamometer.<br>Surface grinding machine | -        |
| 2015-2016     | Concrete Laboratory                                   | Compression Testing Machine                                                                            | 50,000   |
|               | Cloud Lab                                             | 24- Personal Computers                                                                                 | -        |
|               | Data Analytics Lab                                    | Hadoop 1.2.1                                                                                           | -        |
| 2016-2017     | Soil Laboratory & Concrete Laboratory                 | Liquid Limit, Compression Testing Machine<br>Soil Penetration Test                                     | 25,000   |
|               | Cloud Lab                                             | 24- Personal Computers                                                                                 | -        |

### ANNEXURE 3.4

#### FACULTY SERVING AS THE REVIEWERS OF NATIONAL AND INTERNATIONAL JOURNALS

| S.No | Faculty Name, Designation & Dept           | Name of the National/ International Journal                                |
|------|--------------------------------------------|----------------------------------------------------------------------------|
| 1    | Dr.G.PrinceArulraj,Professor<br>Dean,CIVIL | African Journal of Biotechnology                                           |
| 2    | Dr.R.Anuradha, Professor,<br>CIVIL         | International Journal of Chemical Industry & Chemical Engineering          |
|      |                                            | Journal of Cleaner Production, an Elsevier journal                         |
|      |                                            | International Journal of Earth Sciences & Engineering                      |
|      |                                            | Journal of Materials and design, an Elsevier journal                       |
| 3    | Dr.S.Karthik,<br>Dean, CSE                 | International Journal of Information and computer Security                 |
|      |                                            | Wireless Communication and Mobile Computing                                |
|      |                                            | International Journal of Cloud Computing                                   |
|      |                                            | International Journal of Network Security                                  |
|      |                                            | International Journal of Computer Applications                             |
|      |                                            | International Journal of Computer Science Issues                           |
|      |                                            | AI Academic Journals                                                       |
| 4    | Mr.Alfred Daniel,<br>AP, CSE               | Journal of Mathematics and Technology                                      |
|      |                                            | International Journal of High Performance Systems Architecture             |
|      |                                            | Springer - Journal of Real Time Image Processing                           |
|      |                                            | IEEE Transactions on Vehicular Technology                                  |
|      |                                            | Elsevier-Journal of Medical Systems                                        |
|      |                                            | SpringerPlus                                                               |
|      |                                            | Hindawi - The Scientific World Journal                                     |
|      |                                            | Hindawi - Mathematical Problem in Engineering Journal                      |
|      |                                            | Springer - Multimedia Tools and Applications                               |
| 5    | Dr.R.Sabitha,<br>AP(SG), CSE               | Elsevier-Journal of Systems Architecture                                   |
|      |                                            | British Journal of Applied Science & Technology                            |
|      |                                            | International Journal of New Computer Architectures and their Applications |
| 6    | Mr.B.Santhosh Kumar,<br>AP(SG), CSE        | British Journal of Mathematics & Computer Science                          |
|      |                                            | International Journal of Technological Exploration and Learning            |
|      |                                            | International Journal of Research in Engineering and Technology            |
|      |                                            | International Journal of Computer Science and Information Security         |

|    |                                     |                                                                                          |
|----|-------------------------------------|------------------------------------------------------------------------------------------|
| 7  | Dr.K.Malarvizhi,<br>HoD, EIE        | Research Script International Journal                                                    |
| 8  | Dr.S.Poornachandra, Dean,<br>EIE    | IEEE Signal Processing Letter                                                            |
|    |                                     | IEEE Transaction on Signal Processing                                                    |
|    |                                     | Journal of Applied Signal Processing, ELSEVIER                                           |
|    |                                     | Biomedical Signal Processing & Controls,<br>ELSEVIER                                     |
|    |                                     | Computer Methods & Programs in Biomedicine,<br>ELSEVIER                                  |
|    |                                     | Journal of Biophysical Reviews & Letters                                                 |
|    |                                     | International Journal of Biomedical Engineering &<br>Technology, Inderscience Publishers |
|    |                                     | International Journal of Computing &<br>Information Technology                           |
|    |                                     | International Journal of Physical Science                                                |
|    |                                     | Journal of Science and Technology Education<br>Research                                  |
|    |                                     | IET Signal Processing                                                                    |
|    |                                     | Journal of WSEAS                                                                         |
|    |                                     | Journal of computer Engineering and Informatics,<br>World Academic Publishing Company    |
|    |                                     | Journal of Control Science and Engineering                                               |
|    |                                     | Journal of Electrical and Electronics Engineering<br>Research                            |
|    |                                     | Journal of Signal & Information Processing                                               |
|    |                                     | Majlesi Journal of Electrical Engineering                                                |
| 9  | Dr.Shanmugaraja,<br>Prof, MECH      | International Journal of Business Excellence                                             |
|    |                                     | International Journal of productivity and quality<br>management                          |
|    |                                     | International Journal of Six Sigma and competitive<br>advantage                          |
|    |                                     | International Journal of services and operations<br>management                           |
|    |                                     | International Journal of Quality and Reliability<br>Management                           |
| 10 | Dr.L.Savadamuthu,<br>ASP, MECH      | Journal of Operation Research                                                            |
| 11 | Dr.M.Subramanian, Prof,<br>MECH     | International Journal of Advanced Manufacturing<br>Technology                            |
|    |                                     | Journal of Machining Science and Technology                                              |
| 12 | Dr.P.Vivekanandan,<br>HoD, MCT      | International Journal of Management and<br>Engineering Management                        |
| 13 | Mrs. J. Aruna Angeline,<br>HoD, ENG | International Journal of Latest Trends in Engineering,<br>Science and Technology         |

### ANNEXURE 3.5

#### DETAILS OF IIPC ACTIVITIES

##### i) MoUs signed with Industry / Institution

| Year    | Company Name                             | Period  | Valid Upto | Address                                                       |
|---------|------------------------------------------|---------|------------|---------------------------------------------------------------|
| 2012-13 | UTL Technologies                         | 3 Years | 2015       | Ashokpuram School Road, Industrial Suburb, Bangalore,         |
|         | CADD Technologies                        | 5 Years | 2.1.2018   | CADD Technologies school of Design (P) Ltd., Coimbatore       |
|         | Innovent Engineering Solutions Pvt Ltd   | 3 Years | 20-1-16    | Innovent Engineering Solutions, Bangalore                     |
|         | Kriatec Services Pvt. Ltd                | 3 Years | 20-1-16    | Coimbatore                                                    |
|         | Enkay Engineering,                       | 3 Years | 20-1-16    | Periyanaikenpalayam, Coimbatore                               |
|         | Vishal Precision Products Pvt. Ltd.,     | 3 Years | 19-12-16   | Vishal Precision Products, Vilankurichi Main road, Coimbatore |
| 2013-14 | Kriatec Services Private Ltd.            | 2 Years | 20.01.16   | Gandhipuram, Coimbatore                                       |
|         | COINDIA                                  | 3 Years | 2017       | Race course, Coimbatore                                       |
|         | Spiral Technologies                      | 2 Years | 20.02.2016 | Coimbatore-ooty main road Kumarapuram-Coimbatore              |
| 2014-15 | BSNL                                     | 5 Years | 2020       | Harish Chandra Mathur Lane Janpath, New Delhi                 |
|         | Uniq Technologies                        | 2 Years | 2017       | T Nagar, Chennai                                              |
|         | Stallioni Net Solutions                  | 2 Years | 2017       | Annur, Coimbatore                                             |
|         | Accent Technosoft                        | 2 Years | 2017       | Ram Nagar, Coimbatore                                         |
|         | Vaanam Technologies Private Limited,     | 2 Years | 2017       | Peelamedu, Coimbatore                                         |
|         | Tech Mahindra Limited, Chennai           | -       | -          | SBC Tech Park, Ambattur Chennai                               |
|         | Flow Xplore,                             | 2years  | 30.07.2016 | Coimbatore                                                    |
|         | Mach Engineers                           | 2years  | 31.07.2016 | Chennai                                                       |
|         | Barola Aero Sports                       | 3years  | 25.08.2017 | T. Nagar, Chennai                                             |
|         | Sara Pumps                               | 2years  | 30.03.2017 | Coimbatore                                                    |
|         | Etero Designs                            | 2years  | 02.08.16   | Gandhipuram, Coimbatore                                       |
|         | Krishna associates                       | 2years  | 2016       | Ganapathy (Po), Coimbatore                                    |
|         | Sri Mahimaa Arch structures, Coimbatore. | 2years  | 2016       | Ganapathy, Coimbatore                                         |
|         | Polygon,                                 | 2years  | 2016       | Coimbatore                                                    |

|                |                                                     |           |            |                                   |
|----------------|-----------------------------------------------------|-----------|------------|-----------------------------------|
|                | MM Constructions                                    | 2years    | 2016       | Ondipudhur,Coimbatore             |
|                | M/s Arun steels                                     | 2years    | 2016       | Siganallur, Coimbatore            |
|                | M/s Ultra Ready Mix Concrete Pvt Ltd,               | 2years    | 2016       | Kannampalayam (P), Coimbatore     |
|                | TR Associates,                                      | 2years    | 2016       | Gandhipuram, Coimbatore           |
|                | Smirithi Constructions,                             | 2years    | 2016       | Tatabad Coimbatore                |
|                | Ponmani Industries                                  | 2 Years   | 19.09.16   | Peelamedu,Coimbatore              |
|                | Mohan industries                                    | 2 Years   | 25.07.16   | Keernatham Pudupalayam,Coimbatore |
|                | Sri andal engg works                                | 2 Years   | 12.11.16   | Kannampalayam,Coimbatore          |
|                | KPM Plasto Rubber Co                                | 2 Years   | 27.11.16   | Kannamapalayam,Sulur, Coimbatore  |
|                | APEX Multimedia India Pvt. Ltd                      | 2 years   | 20.07.16   | Coimbatore                        |
|                | DreamsPlus Consulting Pvt. Ltd.,                    | 5 years   | 21.08.2019 | T.Nagar, Chennai                  |
|                | Open Source Academy India Pvt. Ltd.,                | 2 years   | 21.08.2016 | Gandhipuram, Coimbatore           |
|                | NIIT Ltd.                                           | 1 year    | 18.9.2015  | Gandhipuram, Coimbatore           |
|                | Bonfring                                            | 1 year    | 19.2.16    | Tatabad, Coimbatore               |
|                | Aura Technology                                     | 1 year    | 24.3.16    | 100feet road, Coimbatore          |
|                | CMS Info Systems Pvt. Ltd.,                         | 1 year    | 18.3.16    | Gandhipuram,Coimbatore            |
|                | Poras Technologies,                                 | 1 year    | 19.3.16    | Gandhipuram, Coimbatore           |
|                | Duratech Solutions,                                 | 11 months | 24.2.16    | Saibaba colony,Coimbatore         |
|                | Kyungpook National University, South Korea          | 5 years   | 29.10.19   | South Korea                       |
| <b>2015-16</b> | Propulsion Technologies                             | 2 Years   | 2017       | Ram Nagar, Coimbatore             |
|                | Keys Lab Software India Private Limited, Coimbatore | 2 Years   | 2017       | Velandipalayam, Coimbatore        |
|                | Sculpteclat Tech Solutions Private Limited          | 2 Years   | 2017       | Gandhipuram, Coimbatore.          |
|                | Maavan Aeronautics Private Limited                  | 3years    | 18.08.2018 | Chennai                           |
|                | Jetnav Technologies                                 | 3years    | 26.08.2018 | Bangalore                         |
|                | Taneja Aerospace and Aviation Limited.              | 3 years   | 05.10.2018 | Krishnagiri                       |
|                | Avian Aerospace                                     | 3years    | 22.04.2019 | Ambattur,Chennai                  |
|                | Vijaya& Co                                          | 2 years   | 26.2.17    | Coimbatore                        |
|                | MAXCADD (Unit Of                                    | 31.3.15   | 2Years     | maxcadd.svp@gmail.com             |

|                |                                                                   |                     |                        |                                             |
|----------------|-------------------------------------------------------------------|---------------------|------------------------|---------------------------------------------|
|                | Amsroid Technologies)                                             | to 31.3.17          |                        |                                             |
|                | M/s Graphical Designers, Civil Engineers & Structural Consultants | 20.3.15 to 20.3.17  | 2Years                 | Coimbatore                                  |
|                | D'Trend Engineering Consultants                                   | 29.4.15 to 29.4.17  | 2Years                 | banutrends@gmail.com                        |
|                | M.S Property Developers                                           | 2Years              | 2Years                 | merin.suresh@gmail.com                      |
|                | Taneja Aerospace and Aviation Ltd                                 | 2Years              | 05.10.15 to 05.10.2017 | ceo@taal.co.in                              |
|                | Airport authority of India.                                       | 2Years              | 05.10.15 to 05.10.17   |                                             |
| <b>2016-17</b> | Spiro Solutions, Coimbatore                                       | 2 Years             | 2018                   | Coimbatore                                  |
|                | Mindnotix Software Solutions, Coimbatore                          | 5 Years             | 2021                   | Venkatapuram, Coimbatore                    |
|                | Ruthresh Structure                                                | 17.08.16 to 17.8.18 | 2Years                 | Ruthresh.structures@gmail.com               |
|                | Swaghat precision                                                 |                     | 20.7.2017              | SwaghatIndustries,Nallampalayam, Coimbatore |
|                | Maxbe industries                                                  |                     | 11.8.2017              | Ganesapuram,Coimbatore                      |
|                | Gem Precision Pvt Ltd                                             | 2 Years             | 03.11.2017             | Coimbatore                                  |
|                | Rabwin Industries                                                 | 2 Years             | 25.11.17               | Chettipalayam,Malumichampatti, Coimbatore   |
|                | Bimetal Bearing                                                   | 2 Years             | 30.11.17               | P.N.Pudur,Coimbatore                        |
|                | Radha Castings                                                    | 2 Years             | 01.02.18               | Coimbatore                                  |
|                | Stark Motors                                                      | 2 Years             | 02.01.18               | Coimbatore                                  |
|                | Harson pumps                                                      | 2 years             | 01.02.18               | Coimbatore                                  |
|                | Velan Engineering Works                                           | 2 years             | 29.01.18               | Coimbatore                                  |
|                | Suresh Engineering Works                                          | 2 years             | 05.01.18               | Coimbatore                                  |
|                | Sri Sakthi Engineering Works                                      | 2 years             | 21.04.16               | Coimbatore                                  |
|                | IMECH Components,                                                 | 2 years             | 27.04.16               | -                                           |
|                | Alfa WireCut EDM Centre                                           | 2 years             | 06.05.16               | Coimbatore                                  |
|                | Purple Pro Solutions                                              | 5 years             | 30.7.21                | Peelamedu,Coimbatore                        |

|                                      |           |         |             |
|--------------------------------------|-----------|---------|-------------|
| Shine School Of Excellence Pvt Ltd., | 5 years   | 30.7.21 | Coimbatore  |
| Red Leaf Technologies                | 1 year    | 1.8.17  | Coimbatore, |
| Nettel Solutions                     | 5 years   | 19.8.21 | Coimbatore  |
| Sharp Technologies                   | 11 months | 19.7.17 | Coimbatore  |
| 4s Software Solutions                | 5 years   | 27.8.17 | Coimbatore  |

**ii) IN-PLANT TRAINING ATTENDED BY STUDENTS WITH MOU SIGNED COMPANIES.**

| Year    | Number of students undergone in plant training | Name of major industries                                   |
|---------|------------------------------------------------|------------------------------------------------------------|
| 2012-13 | 30                                             | HCL Infosystems, Coimbatore                                |
|         |                                                | Mezoblanca Solutions, Coimbatore                           |
|         |                                                | BSNL,Tamilnadu                                             |
|         |                                                | BSNL,Coonoor                                               |
|         |                                                | KALEK Solutions, Coimbatore                                |
|         |                                                | SAIL, Salem                                                |
|         |                                                | Ashok Leyland,Chennai                                      |
|         |                                                | Ford India Pvt.Ltd,Chengalpattu                            |
|         |                                                | Autotech Industries Pvt Ltd.Chennai                        |
|         |                                                | Tamilnadu State Transport Corporation CBE, Ltd.,Coimbatore |
| 2013-14 | 64                                             | HCL Infosystems, Coimbatore                                |
|         |                                                | BSNL,Coimbatore                                            |
|         |                                                | Mezoblanca Solutions, Coimbatore                           |
|         |                                                | BSNL,Erode                                                 |
|         |                                                | KALEK Solutions, Coimbatore                                |
|         |                                                | SAIL ,Salem,                                               |
|         |                                                | CRI Pumps ,Coimbatore                                      |
|         |                                                | Ashok Leyland,                                             |
|         |                                                | VOC Port Trust, Tutucorin                                  |
|         |                                                | Ashk Leyland , Hosur                                       |
| 2014-15 | 137                                            | Best Motor Works , coimbatore                              |
|         |                                                | BSNL,Tamilnadu                                             |
|         |                                                | The India CementsLimited, Tirunelveli                      |
|         |                                                | Proplus Logics, Coimbatore                                 |
|         |                                                | HCL,Coimbatore                                             |
| 2015-16 | 253                                            | UNIQ Technologies, Chennai                                 |
|         |                                                | Crystalpro,Coimbatore                                      |
|         |                                                | Tamil Nadu generation and distribution corporation ltd     |
|         |                                                | HAPP, Ministry of Defence                                  |
|         |                                                | Lakshmi forging                                            |
|         |                                                | Ellen industries pvt.ltd                                   |

|         |     |                                   |
|---------|-----|-----------------------------------|
|         |     | Rangaa food industries            |
| 2016-17 | 232 | UNIQ Technologies, Chennai        |
|         |     | BSNL,Tamilnadu                    |
|         |     | ABILE Technologies, Coimbatore    |
|         |     | Kaashiv InfoTech, Chennai         |
|         |     | E-Soft IT Solutions,Trichy        |
|         |     | AUTO DESK                         |
|         |     | TAFE Access limited               |
|         |     | Sri Rukes cast engineering works  |
|         |     | Agni street pvt.ltd               |
|         |     | Hi-Tech CNC Automation            |
|         |     | Uniq Technologies                 |
|         |     | BSNL,Tamilnadu                    |
|         |     | UNIQ Technologies, Chennai        |
|         |     | Livewire Technologies, Coimbatore |

### iii) INTERNSHIP OFFERED BY COMPANIES TO STUDENTS

| Year    | Number of students undergone Internship | Name of major industries                            |
|---------|-----------------------------------------|-----------------------------------------------------|
| 2013-14 | 19                                      | Tech Mahindra, Chennai                              |
|         |                                         | HCL Infosystems, Chennai                            |
|         |                                         | BSNL,Chennai                                        |
|         |                                         | HCL,Coimbatore                                      |
|         |                                         | Nexgen Solutions, Coimbatore                        |
|         |                                         | Poras Technologies, Coimbatore                      |
| 2014-15 | 18                                      | HCL,Coimbatore                                      |
|         |                                         | Lucid Technologies, Coimbatore                      |
|         |                                         | UNIQ Technologies, Chennai                          |
|         |                                         | CG Transcribe Solutions Private Limited, Coimbatore |
|         |                                         | Hirotec India Private Limited, Coimbatore           |
|         |                                         | HCL,Coimbatore                                      |
| 2015-16 | 82                                      | BSNL, Coimbatore,                                   |

### iv) INDUSTRIAL VISIT BY STUDENTS

| Year    | Industry Name                                         | Number of students visited |
|---------|-------------------------------------------------------|----------------------------|
| 2012-13 | M Power Global Private Limited, Bangalore-560027.     | 45                         |
|         | Software Technology Parks of India, Bangalore-560100. | 45                         |
|         | Cigniti Technologies Limited, Hyderabad-500081.       | 53                         |
|         | 3K Technologies Limited, Hyderabad-500085.            | 53                         |
|         | Wipro Technologies, Cochin-682030                     | 46                         |
| 2013-   | Star Infotech Private Limited, Bangalore-560095.      | 41                         |



|         |                                                                      |    |
|---------|----------------------------------------------------------------------|----|
| 14      | <b>Focuz Infotech Private Limited</b> , Cochin-682025.               | 35 |
|         | <b>Chips Software Systems(P) Limited</b> ,,Cochin-682011             | 35 |
|         | <b>Chips Software Systems(P) Limited</b> ,,Cochin-682011             | 17 |
|         | <b>Symbol Technologies</b> ,, Bangalore-560103.                      | 15 |
|         | <b>Calsoft Labs</b> , Bangalore-560076.                              | 15 |
| 2014-15 | <b>Software Technology Parks Of India(STPI)</b> ,Hyderabad – 500081. | 46 |
|         | <b>Chips Software Systems(P) Limited</b> , Cochin-682011             | 47 |
|         | <b>Chips Software Systems(P) Limited</b> ,Cochin-682011              | 43 |
| 2015-16 | <b>Kaynes Technology</b> , Karnataka, INDIA.                         | 47 |
|         | <b>Cranes Software International Limited</b> , Bangalore - 560 029   | 46 |
|         | <b>IT Champs Software Private Limited</b> , Mysore - 570002.India.   | 46 |
|         | <b>Quest Innovative Solutions</b> , Cochin – 682020.                 | 12 |
| 2016-17 | <b>INFOSYS Limited</b> , Mysore-570 027.                             | 32 |
|         | <b>UST Global Limited</b> , Kakkanad, Kochi-682030.                  | 45 |

**v) INDUSTRIES VISITED BY FACULTY MEMBERS**

| <b>Year</b> | <b>Industry Name and Address</b>                                                       | <b>Number of Faculty members visited</b> |
|-------------|----------------------------------------------------------------------------------------|------------------------------------------|
| 2012-13     | <b>UTL Technologies</b> , Bangalore, Karnataka 560022.                                 | 1                                        |
|             | <b>M Power Global Private Limited</b> ,Bangalore-560027.                               | 4                                        |
|             | <b>Software Technology Parks of India</b> , Electronics City, Bangalore                | 4                                        |
|             | <b>Cigniti Technologies Limited</b> ,Hyderabad-500081.                                 | 4                                        |
|             | <b>3K Technologies Limited</b> , Hyderabad-500085.                                     | 4                                        |
|             | <b>Wipro Technologies</b> ,Cochin-682030                                               | 3                                        |
| 2013-14     | <b>Coimbatore Industrial Infrastructure Association (COINDIA)</b> , Coimbatore-641018. | 1                                        |
|             | <b>Star Infotech Private Limited</b> , Bangalore-560095.                               | 3                                        |
|             | <b>Focuz Infotech Private Limited</b> ,Cochin-682025.                                  | 3                                        |
|             | <b>Chips Software Systems(P) Limited</b> , Cochin-682011                               | 3                                        |
|             | <b>Symbol Technologies</b> , Bangalore-560103.                                         | 2                                        |
|             | <b>Calsoft Labs</b> ,Bangalore-560076.                                                 | 2                                        |
| 2014-15     | <b>INFOSYS</b> ,Mysore-570 027                                                         | 1                                        |
|             | <b>Vaanam Technologies</b> , Coimbatore-641004.                                        | 1                                        |
|             | <b>Stallioni Net Solutions</b> , Coimbatore, Tamil Nadu 641653.                        | 1                                        |
|             | <b>BSNL</b> , New Delhi-110 001.                                                       | 2                                        |
|             | <b>Uniq Technologies</b> , Chennai, Tamil Nadu 600017.                                 | 2                                        |
|             | <b>Accent Technosoft</b> , Coimbatore-641009.                                          | 1                                        |

|         |                                                                      |   |
|---------|----------------------------------------------------------------------|---|
|         | <b>Software Technology Parks Of India(STPI),</b> Hyderabad – 500081. | 2 |
|         | <b>Chips Software Systems(P) Limited,</b> Cochin-682011              | 4 |
| 2015-16 | <b>Infosys,</b> Bangalore.                                           | 2 |
|         | <b>Propulsion Technologies,</b> Coimbatore, Tamil Nadu 641009.       | 2 |
|         | <b>VTFSolutions,</b> Coimbatore-641018.                              | 3 |
|         | <b>Infonic,</b> Coimbatore – 641038.                                 |   |
|         | <b>GBS Communications,</b> Coimbatore-641004.                        |   |
|         | <b>Keys Lab Software India Private Limited,</b> Coimbatore - 641025  | 1 |
|         | <b>Sculpteclat Tech Solutions Private Limited,</b> Coimbatore.       | 1 |
|         | <b>Kaynes Technology,</b> Karnataka, INDIA.                          | 2 |
|         | <b>Cranes Software International Limited</b> Bangalore               | 2 |
|         | <b>IT Champs Software Private Limited,</b> Mysore - 570002           | 2 |
|         | <b>Quest Innovative Solutions,</b> Cochin – 682020.                  | 2 |
| 2016-17 | <b>Spiro Solutions,</b> Coimbatore-641009.                           | 1 |
|         | <b>Mindnotix Software Solutions,</b> Coimbatore.                     | 1 |
|         | <b>Infosys Limited,</b> Mysore-570 027                               | 2 |
|         | <b>UST Global,</b> Kochi-682030                                      | 2 |

**ANNEXURE 3.6**  
**DETAILS OF EXTENSION ACTIVITIES IMPACTED STUDENTS LIFE**

| <b>Year</b> | <b>Extension Activity Name</b>                                                                   | <b>Venue/ Place</b>                           | <b>Beneficiaries</b>                    | <b>Outcome</b>                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 2013-14     | Awareness on Computer Skills                                                                     | Government School, Vazhiampalayam, Coimbatore | 150                                     | Awareness to School Students                                                                                |
| 2014-15     | Social Awareness Program-Awareness on "H1N1-Influenza" and Safety usage of electronic Equipments | Saravanampatty, Coimbatore                    | 40                                      | Awareness to Public                                                                                         |
|             | Social awareness program on road safety and green environment                                    | Saravanampatty, Coimbatore                    | Public                                  | To aware about road safety & green environment                                                              |
|             | Awareness Programme On “Good Construction Properties”                                            | SNS College of Technology                     | 30                                      | Knowledge Gained in the area of good construction practices                                                 |
|             | Engineers Day                                                                                    | D Block Seminar Hall                          | Mechanical Engineering Students / Staff | Students started their continuous professional thinking                                                     |
|             | No Smoking and Health care awareness,                                                            | FUN REPUBLIC MALL, Avinashi Road, Coimbatore  | 600 public persons                      | Public gathered about their health status and , started maintaining well                                    |
|             | “Cancer” Awareness Rally                                                                         | Kovilpalayam                                  | 50 Students                             | Peoples get exposure and prevention methods of the Cancer disease                                           |
| 2015-16     | Voting Awareness                                                                                 | Kovilpalayam, Coimbatore                      | 100                                     | Awareness to Public                                                                                         |
|             | Accident Awareness Program                                                                       | Kongunadu Hospitals                           | Public                                  | -                                                                                                           |
|             | Accident Awareness Program                                                                       | Ganga and Bethel Hospitals                    | Public                                  | -                                                                                                           |
|             | Awareness Programme (Civil dept)                                                                 | Saravanampati                                 | 120                                     | Knowledge Gained in the area of utilizing Manufactured sand                                                 |
|             | Vehicle Pollution Awareness Programme                                                            | Ambal autos , Saravanampatty                  | 200 Vehicle visited , 20                | Public checked their vehicle pollution in free of cost , they decided to maintain vehicle in good condition |

|             |                                                    |                                               |                                         |                                                                                      |
|-------------|----------------------------------------------------|-----------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------|
|             | Awareness Rally on<br>“Dengue fever prevention”    | Kovilpalayam                                  | 45<br>Students                          | Peoples get exposure<br>and prevention<br>methods of Dengue<br>fever                 |
|             | Awareness Rally on<br>“Organ donation”             | Oraikaalpalayam                               | 50<br>Students                          | Rural peoples came<br>to know the values<br>and importance of<br>donating the organs |
|             | Prevention of Dengue<br>Fever                      | Kovilpalayam                                  | People<br>from the<br>nearby<br>Village | Awareness Created<br>about the steps to<br>avoid dengue                              |
|             | Social Awareness Program<br>on Energy Conservation | Keernatham,<br>Coimbatore                     | People<br>from the<br>nearby<br>Village | Awareness Created<br>about saving energy<br>for future                               |
| 2016-<br>17 | CYBER CRIME<br>Awareness Program                   | Saravanampatti,<br>Coimbatore                 | students and<br>the General<br>Public   | Awareness students<br>to Public                                                      |
|             | Awareness Program on<br>“Road Safety”              | Fun Mall,<br>Coimbatore                       | 40 Students                             | Peoples get exposure<br>about the importance<br>of Road safety while<br>driving      |
|             | Sapling Plantation                                 | Kottaipalayam                                 | General<br>Public                       | Imparting<br>Knowledge on<br>Green Environment                                       |
|             | Voting awareness Camp                              | Kottaipalayam                                 | General<br>Public                       | Created Awareness<br>among Public on<br>importance of<br>Voting                      |
|             | Awareness Program on<br>“Cyber Crime”              | Saravanampatty<br>(Check post),<br>Coimbatore | Society                                 | Social Awareness                                                                     |
|             | Eye Camp                                           | F Block Seminar<br>Hall,SNSCT                 | Students<br>and staffs                  | Social Awareness                                                                     |
|             | Eye & Dental Camp                                  | RNG Hall. SNSCT                               | Students<br>and staffs                  | Social Awareness                                                                     |
|             | Awareness program on<br>“Fire & Safety”            | Open Auditorium,<br>SNSCT                     | Students<br>and staffs                  | Safety Awareness                                                                     |
|             | Organ Donation                                     | RNG Hall, SNSCT                               | Students<br>and staffs                  | Awareness                                                                            |
|             | Tree Planting                                      | Vaiyapurinagar,<br>Coimbatore                 | Society                                 | Green Houses                                                                         |

**ANNEXURE 3.7**  
**DETAILS OF COLLEGE NEIGHBOURHOOD COLLABORATIONS**

| <b>Year</b> | <b>Date</b> | <b>Activity</b>              | <b>Place of Activity</b>                    | <b>Neighborhood Beneficiaries</b> | <b>Collaborating body (if any)</b>                            |
|-------------|-------------|------------------------------|---------------------------------------------|-----------------------------------|---------------------------------------------------------------|
| 2012-13     | 01.02.2013  | Blood Donation Camp          | SNSCT Campus                                | 110                               | RRC-SNSCT, Coimbatore                                         |
|             | 09.05.2013  | Lecture on Celebrating Life  | SNSCT Campus                                | 80                                | RRC-SNSCT, Coimbatore                                         |
|             | 11.01.2013  | Tamil Speech Competition     | SNSCT Campus                                | 13                                | YRC-SNSCT, Coimbatore                                         |
|             | 22.01.2013  | Blood Donation Camp          | SNSCT Campus                                | 110                               | YRC-SNSCT, Coimbatore & Muyarchi Makkal Nala Amaippu, Tirupur |
| 2013-14     | 15.02.2014  | Lecture on Fire Safety       | SNSCT Campus                                | 100                               | RRC-SNSCT, Coimbatore                                         |
|             | 29.06.2013  | Seminar on Yoga              | SNSCT Campus                                | 59                                | ISHA Institute of Inner Sciences, Coimbatore                  |
|             | 26.07.2013  | Blood Donation Camp          | SNSCT Campus                                | 150                               | KG Hospital, Coimbatore                                       |
|             | 14.02.2014  | Blood Donation Camp          | CODISSIA, Coimbatore                        | 60                                | Transport Department, Tamilnadu                               |
| 2014-15     | 10.01.2015  | Blood Donation Camp          | SNSCT Campus                                | 100                               | KG Hospital, Coimbatore                                       |
|             | 13.02.2015  | Thalir-Project               | SNSCT Campus                                | 52                                | Coimbatore Indian Red Cross Society                           |
| 2015-16     | 09.08.2015  | Plantation of saplings       | Thudiyalur, Coimbatore                      | 300                               | Ver association, Coimbatore                                   |
|             | 27.11.2015  | Plantation of saplings       | Vazhiampal ayam to SNSCT Campus, Coimbatore | 150                               | CAD centre, Coimbatore                                        |
|             | 18.02.2016  | Stammering Awareness Program | SNSCT, Coimbatore                           | 90                                | YRC-SNSCT, Coimbatore                                         |
|             | 17.03.2016  | Passport campaign            | SNSCT, Coimbatore                           | 560                               | Kevin Worldways, Coimbatore                                   |
|             | 20.04.2016  | Blood Donation Camp          | SNSCT, Coimbatore                           | 500                               | KG Hospital, Coimbatore                                       |
| 2016-17     | 12.08.2016  | Organ Donation Camp          | SNSCT, Coimbatore                           | 125                               | Sri Ramakrishna Hospital, Coimbatore                          |
|             | 27.07.2016  | Eye and Dental Camp          | SNSCT, Coimbatore                           | 160                               | Vasan Eye & Dental Care, Coimbatore                           |

**ANNEXURE 3.8**  
**THE DETAILS ON SOCIAL SURVEY, RESEARCH AND EXTENSION**  
**ACTIVITIES**

| <b>Year</b> | <b>Name of the event</b>                              | <b>Objective</b>                                                    | <b>Outcome</b>             | <b>Complement on learning experience</b> | <b>Skills / Values developed</b> |
|-------------|-------------------------------------------------------|---------------------------------------------------------------------|----------------------------|------------------------------------------|----------------------------------|
| 2012-13     | Prevention of Dengue- Rally                           | To spread awareness among public about the dengue outspread         | Social Awareness           | Interaction with public                  | Civic responsibilities           |
|             | World Glaucoma awareness                              | To spread awareness among public about the glaucoma                 | Social Awareness           | Interaction with public                  | Civic responsibilities           |
|             | Medical Camp                                          | To make public health concise                                       | Health awareness           | Interaction with public                  | Civic responsibilities           |
|             | Speech Competition on "Vivekananda And His Principles | To develop the vocabulary                                           | Improvement in vocabulary  | Improvement in verbal ability            | Social Awareness                 |
|             | Walkathon - walk for healthy heart                    | To create awareness about health                                    | Health awareness           | Interaction with public                  | Social Awareness                 |
|             | Blood Donation Camp                                   | To create responsible citizens                                      | Helping the needy people   | Interaction with public                  | Helping tendency                 |
| 2013-14     | Rally on 'Importance of National Flag'                | National integration                                                | Social Awareness           | Interaction with public                  | Unity among students             |
|             | Tree Plantation Camp                                  | To spread awareness about the importance of trees in the ecosystem  | Sustaining the environment | Interaction with public                  | Civic responsibilities           |
|             | Drawing Competition "Non Violence for Humanity        | To spread awareness about the violent activities of human on others | Awareness                  | Interaction with public                  | Humanness                        |
|             | Free Dental Camp                                      | To benefit public about their dental health                         | Health awareness           | Interaction with public                  | Health conciseness               |
|             | Free Eye Camp                                         | To benefit public about their optic health                          | Health awareness           | Interaction with public                  | Social responsibilities          |
|             | 7 Days Special Camp                                   | To keep our surroundings                                            | Making clean environment   | Interaction with public                  | Social                           |

|         |                                             |                                                                               |                            |                         |                                             |
|---------|---------------------------------------------|-------------------------------------------------------------------------------|----------------------------|-------------------------|---------------------------------------------|
|         |                                             | clean                                                                         |                            |                         | responsibilities                            |
|         | BLOOD DONATION CAMP                         | To create responsible citizens                                                | Helping the needy people   | Interaction with public | Helping tendency                            |
|         | Seminar on “YOGA”                           | To create awareness about the health benefits of yoga                         | Health awareness           | Health consciousness    | Social Awareness                            |
|         | BLOOD DONATION CAMP                         | To create responsible citizens                                                | Helping the needy people   | Interaction with public | Helping tendency                            |
| 2014-15 | Rally on “Uncovered Bore Hole               | To make public aware about the consequence of leaving the bore hole uncovered | Social Awareness           | Interaction with public | Innovativeness                              |
|         | Tree Plantation Camp                        | To spread awareness about the importance of trees in the ecosystem            | Sustaining the environment | Interaction with public | Environmental awareness                     |
|         | Free Eye Camp                               | To benefit public about their eye health                                      | Health awareness           | Interaction with public | Social responsibilities                     |
|         | Free Dental Camp                            | To benefit public about their dental health                                   | Health awareness           | Interaction with public | Social responsibilities                     |
|         | Art Exhibition (Trees - Lungs of the world) | To spread awareness about the importance of trees in the ecosystem            | Social Awareness           | Interaction with public | Environmental awareness                     |
|         | National Unity day                          | To spread unity among humanity                                                | Social Awareness           | Interaction with public | Unity among the students                    |
|         | Swachh Bharat Abiyan                        | To keep our surroundings clean                                                | Making clean environment   | Interaction with public | Environmental awareness                     |
|         | National Voters Day                         | To spread the importance of voting                                            | Social Awareness           | Civic responsibilities  | National responsibilities Of a Good citizen |
|         | Human Chain for National Flag Awareness     | National integration                                                          | Social Awareness           | Civic responsibilities  | Patriotism                                  |
|         | 7 Days Special Camp                         | To keep our surroundings clean                                                | Making clean environment   | Interaction with public | Social responsibilities                     |

|         |                                                                                 |                                                                                       |                                                   |                                              |                         |
|---------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------|-------------------------|
|         | Child Labour and Child Abuse                                                    | To spread awareness about the menace of child labour and child abuse                  | Social Awareness                                  | Interaction with public                      | Social responsibilities |
|         | Blood Donation Camp                                                             | To create responsible citizens                                                        | Helping the needy people                          | Interaction with public                      | Helping tendency        |
| 2015-16 | Helmet Awareness Program                                                        | To create awareness about road safety                                                 | Social Awareness                                  | Interaction with public                      | Obedience to law        |
|         | Attempts Guinness Program (Segregation of recyclable and Non-recyclable wastes) | To create awareness among students about the harmful effects of non-recyclable wastes | Social Awareness                                  | Effective management of waste disposal       | Environmental awareness |
|         | Accident Awareness Camp                                                         | To create awareness about road safety                                                 | Social Awareness                                  | Interaction with public                      | Social responsibilities |
|         | Kadalor Flood Relief Camp                                                       | To help the flood victims                                                             | Helped the peoples who have affected due to flood | Disaster management                          | Social responsibilities |
|         | 7 Days Special Camp                                                             | To keep our surroundings clean                                                        | Keeping the environment clean                     | Interaction with public                      | Social responsibilities |
|         | Orphanage visit                                                                 | To help and motivate orphaned children                                                | Helping orphan children                           | Interaction with public                      | Social responsibilities |
|         | Plantation of saplings                                                          | To spread awareness about the importance of trees in the ecosystem                    | Sustaining the environment                        | Interaction with public                      | Environmental awareness |
|         | Blood donation Camp                                                             | To create responsible citizens                                                        | Helping the needy people                          | Interaction with public                      | Helping tendency        |
|         | Tree Plantation Camp                                                            | To spread awareness about the importance of trees in the ecosystem                    | Sustaining the environment                        | Interaction with public                      | Environmental awareness |
|         | Stammering awareness program                                                    | To help people recover from stammering                                                | Recovered from Stammering                         | Effective methods to recover from stammering | Social Awareness        |