

**Self Study Report (SSR)**  
For NAAC Re-Assessment of  
**NATIONAL ENGINEERING COLLEGE**



**Submitted to**



**NATIONAL ASSESSMENT AND ACCREDITATION  
COUNCIL**

**Submitted by**



**NATIONAL ENGINEERING COLLEGE**

(An Autonomous Institution)

**K.R.Nagar, Kovilpatti-628 503, Tamilnadu**

**March - 2016**

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## 1. PREFACE

### BACKGROUND OF THE INSTITUTION

National Engineering College is one of the first generation self financing Engineering Colleges in Tamilnadu, *established in 1984* by Philanthropist and Industrialist Thiru K.Ramasamy, the founder Chairman of National Educational and Charitable Trust, at Nalattinuthur, Kovilpatti in Thoothukudi District, Tamilnadu. His sole *objective is to empower the rural youth with high quality cutting edge technical education for the development of the region and subsequently to the Nation*. The College is located at a serene and tranquil campus of *150 acres* on the National Highways (NH-7) between Kovilpatti and Tirunelveli, at a distance of 4 k.m. south to Kovilpatti. The College is approved by the Tamilnadu Government (G.O.MS.No.939 Edu (J1) Dept., dt.20.07.1984) and AICTE, New Delhi.

The college was started with three B.E. degree programmes in the disciplines of Mechanical Engineering, Electronics and Communication Engineering and Computer Science & Engineering. With the clear vision of **Thiru.K.Ramasamy**, Chairman, and **Tmt.Chennamal Ramasamy**, Correspondent, the phenomenal execution of the executive executor **Thiru.K.R.Arunachalam**, Member, Managing Committee, meticulous guidance of the Director **Dr.Kn.K.S.K. Chockalingam** and the able administration of the Principal **Dr.S.Shanmugavel**, now the college has attained tremendous growth by developing itself in every aspect; in terms of new courses, infrastructure facility, staff & students' strength, project & research activities, centralized library and all sports & recreation activities. The College offers *7 U.G. degree programmes* in B.E./B.Tech., *8 P.G. degree programmes* in M.E. with the mission "*Transforming lives through quality education and research with human values*". All the programmes are affiliated to Anna University.

The Programmes are:

- ✓ **B.E.:**
  - Electronics and Communication Engineering
  - Computer Science & Engineering
  - Mechanical Engineering
  - Electrical and Electronics Engineering
  - Electronics and Instrumentation Engineering
  - Civil Engineering
  
- ✓ **B.Tech.:**
  - Information Technology
  
- ✓ **M.E.:**
  - Computer Science & Engineering
  - Communication Systems
  - Communication & Networking

Energy Engineering  
High Voltage Engineering  
Control and Instrumentation  
Embedded System Technologies  
Manufacturing Engineering

Among these programmes, all the eligible U.G. programmes are **accredited by National Board of Accreditation (NBA)**. In addition to the accreditation by TCS, Institution of Engineers, India [IE(I)] has also accredited all the U.G. Programmes. During the current academic year, about 3035 *students* (U.G. – **2868**, P.G. - **167**) are pursuing their degree programmes in the College. The present **faculty strength of the college is 220**. The college maintains the staff, students' strength at the **ratio of 1:14** for effective and quality teaching.

The college adopts **participatory management principle**; hence all the constituents of the departments are decentralized for independent and effective functioning and thereby contributing total development of the college. Each department independently functions under the guidance and **responsibility of the Heads of the Departments**, and the **Principal** is the ultimate administrative authority discharging works with the guidance and approval of the **Management Committee** of the college. One of the remarkable features of the college is that it has many **experienced staff members** who are encouraged with timely promotions and incentives for research. AICTE norms are strictly adhered to for promotions.

To increase research activities, an **exclusive Research and development Unit** is functioning under a Dean. This unit is involved in encouraging staff for research activities and availing various state and central government projects. Currently, the college has undertaken various **funded projects from IGCAR, BRNS, DST, AICTE, MNRE, ICMR and DRDO**. A publication division, **Society of Manufacturing Engineers (SME)** is functioning in the college as its headquarters. It publishes a quarterly international Journal; **Journal of Manufacturing Engineering**. **Six departments are recognized as Research Centres** by Anna University. The approved supervisors of respective departments guide the research scholars in various specializations. In order to share the expertise of researchers/academicians/industrial persons in various specializations, every department of our college organizes Conferences, Seminars, Workshops, Symposia, Faculty Development Programmes and Short\_term Training Programmes, in National and International levels.

Also, the departments have signed **Memorandum of Understanding (MoU)** with various industries and research organizations to facilitate the students and faculties with technological advancements in related fields. One of the reputed companies, **IBM** has established its **“Centre of Excellence”** at our campus.

The **Principal**, an eminent educationalist, served as member of BOS, Anna University, Chennai. Senior faculty members of our college are extending their services as members of Board of Studies in other Autonomous Institutions and Research Board member of Anna University, Chennai.

A Separate office for **Controller Of Examination (COE)** is functioning in our college campus with all facilities and software packages for the conduct of End Semester Examination

A **Training Counseling and Placement (TCP) Cell** is functioning efficiently in the college premises. Dean (TCP) is involved in this activity full time with two office assistants. The Cell organizes various programmes to train the students for placement programmes. It invites experts from various parts of the country to enhance our students' employability skills and communication skills. In the current year, about 282 **students** out of 766 students in the final year have been **placed in** reputed **companies** through **campus interviews**. Also, the cell helps the students to undergo training in various industries, **fellowship training** at the premier technical institutions (IITs and IISc) of the country and to get fellowship through various schemes of Government of India.

Apart from the libraries in all the departments, a **central library** is functioning in the campus with air-conditioned facility. The library houses a rich collection of books for all subjects with recent publications. There are about 55,473 **books**, individual titles 20,965 nearly 84 **National Journals and 49 International Journals, 2715 back volumes and from e-journal from Elseiver(Science Direct) and IEEE(ASPP)**. **DELNET** is available for resource sharing purpose. A separate **book bank** is being operated in the library for the benefit of SC / ST students. The library is kept opened for 12 hours in week days and its service can be availed even on Sundays. Book distribution process has been automated for quick and easy dealings.

The College has the **state-of-the-art infrastructure facility**. Independent blocks with sophisticated laboratories have been provided to each department. Laboratories are well-equipped and are air-conditioned. Seminar halls are facilitated with modern furniture and multimedia teaching aids.

A **fully air-conditioned Administrative Block** encompasses Director Chamber, Principal Chamber, administrative office, Conference Hall and Assembly Hall at the entrance of the college. There is also a huge **auditorium** in the campus with the capacity to accommodate 1000 students. The college **canteen** has a huge and spacious dining hall. Its maintenance and food preparation are done with great care to ensure health and hygiene.

**Estate office** in the college is looking after design and maintenance of the buildings in the campus. It has been undertaking campus beautification project also. Sewage treatment plant is available to treat waste water from hostels and utilize it for drip irrigation in the entire campus.

There are **two hostels for gents and one for ladies** in the college campus. 680 students are given accommodation in the Gents Hostel-I and Hostel-II. The ladies hostel provides boarding for about 701 students. S.T.D.

facility and browsing facility are available for the students. Home theatre with LCD Projector, indoor games and other recreation facilities are available in the hostels. Hygienic solar steam cooking systems installed in both gents and ladies hostel have been functioning well. The bio-gas plant installed in the campus utilizes the hostel bio-wastes effectively.

The *college operates buses* in all directions to all main towns in and around it, in order to meet the requirements of day scholars. The transport unit of the college owns **26 buses**. The transport department is functioning under the supervision of a Transport Officer.

While making use of all the general facilities, the students make themselves as experts by involving them in regular curricular, *co-curricular and extracurricular activities*. All the clubs, chapters and working groups organize many programmes *for the welfare of students* with the guidance of staff co-ordinators. **Two Units of NSS** and an **NCC Army wing** are functioning with about 200 volunteers, 80 male and 20 female cadets respectively.

The Management is soundly supported by a backup finance through their global ventures in textiles export and construction work. Thus it is sheer academic interest guided by a philanthropic spirit that motivates the realization of their vision.

## **2. Executive Summary**

### **Criterion – I**

#### **Curricular Aspects**

Dean (Academic) looks after all the academic issues such as conducting Academic Council meetings and BOS meetings of our college for framing regulations, designing and periodic revision of curriculum and syllabus.

The exposure of faculty in recent advances and feedback from students, alumni and academic experts give the right impetus and direction for necessary changes in the curriculum. The institution involves internal and external academic experts from industry / Academic Council which are statutory bodies that are responsible for the curriculum development process by involving stakeholders. The curriculum developed encompasses components for employability, research in emerging areas and social needs as a result, the curriculum is updated and equips the learner to compete successfully at the vertical and horizontal levels. Academic flexibility is achieved by introducing advanced and industry-offered courses during the final year of UG and PG degree programmes.

### **Criterion – II**

#### **Teaching - Learning and Evaluation**

Our college strives to achieve excellence in teaching and learning by recruiting good quality teaching faculty and maintaining their retention ratio. Also, the aspiring student community is our additional strength. 65% of admission is carried out through government quota. 35% of admission is carried out through management quota which is purely based on merit. The management council is formed for the selection of management students, that is done based on government norms. Meticulous planning for teaching in the beginning of every semester paves the way for efficient teaching environment. The class committee meeting is convened thrice in a semester. In the meeting, discussion regarding weightage of internal marks, coverage of syllabus, feedback about the courses taught, analysis of end-semester and internal assessment results are discussed which will be helpful for the students to discuss the problems and clarify their doubts. The feedback mechanism for faculty from students helps in enriching the competency of the faculty. Use of ICT-based teaching enriches the teaching – learning process.

### **Criterion – III**

#### **Research, Consultancy and extension**

Dean (R&D) of our college is a man with the potential of excellence in research, promotes research and related activities among faculties and students. Road map review activities are undertaken every month for each department in order to plan the research activities effectively. To facilitate the smooth implementation of research projects the College provides advancing funds, autonomy to principal investigator for utilizing overhead charges, also

grants are released at the appropriate time. Interdisciplinary research related to the issue of demand on renewable energy is in progress. Since the research facility is par with national repute, those facilities are made use of by researchers from other colleges. The college provides incentives to the faculty for their research contribution. Research meeting is convened once in a month to discuss the status of the sanctioned funded project, sending proposal to other agencies and design of evaluation parameters to promote quality research.

34 recognized research supervisors have been guiding 172 research scholars in the various research departments of our college. This active participation of faculty members in academic / industrial research shows the vibrant research environment of our college which leads to sustainable development of the society at large, subsequently the nation.

#### **Criterion – IV**

##### **Infrastructure and Learning Resources**

The state-of-the-art infrastructure augments learning which the significant concern of the institution is. Our Management is generous in enhancing the infrastructure as and when needed which promotes a good teaching-learning environment. The central library, the heart of learning resources is having a seating capacity of nearly 200.

The auditorium is used as a multipurpose hall for conducting cultural programmes, examinations, Parent–teacher meetings and for other college functions. The college has a well-furnished guest house for Guest Accommodation. with 6 rooms and a lounge for the guests. There are two Boys’ hostel and one Girls’ hostel with a total accommodation facility of about 1381 students. There are 3 staff residing on campus for both Girl’s and boy’s hostel. There is a Health Centre on campus with a full time nursing assistant.

Our central library is well equipped with modern facilities including wi-fi technology and Closed Circuit Television System (CCTV). The library has ‘e’ resource facility and DELNET facility for easier access for resources. Separate gyms are providing in the two hostels to facilitate the growth of a secured mind in a sound body.

#### **Criterion – V**

##### **Student Support and Progression**

There are about 3035 students from diverse background. To meet the needs of the students, student support service of our college is administered through a tutorial system. In this scheme about 20 students are assigned to each faculty. Students are allowed to contact the tutor to address their academic as well as personal problems. Tutors are available all the time to support and advise the students. The TCP cell of the college also extends its service in the form of career guidance and in other needed services. The TCP cell of our college extends its active participation in inviting many companies for campus

recruitment. Every year one student who is academically strong and economically weak is selected from first year for this scholarship, and financial assistance will be provided to the student for the period of four years. Departments encourage students to participate in State, National and International level of curricular and co-curricular events. The registered Alumni Association started in the year 1991 conducts alumni meet every year. The alumni association offers scholarship to the needy students. The SC/ST book bank having 3319 Volumes and 716 Titles issues 6 books per student for a period of one semester.

The NSS, NCC, RRC & YRC Clubs of our institution motivate the students to participate in the extension activities such as Awareness Rallies for Voters Day, Helmet wearing, Fire and Safety, Medical Camp, Blood donation and orphanage visits.

### **Criterion – VI**

#### **Governance, Leadership and Management**

The Management of our college is assisted by the Director, Principal, Deans, Heads of the departments, and Controller of the Examination, Academic Auditing and Estate Officer.

The Management actively takes part in the working of the institution and the oversee the day-to-day working of the college. The Managing Committee conducts periodical meetings taking stock of the situation. Management looks after the faculty requirement, infrastructure, and financial expenditure and provides the funds for different developmental activities taking place in the campus.

The Management has constant touch with the Director and Principal to maintain cordial rapport to discuss the infrastructural needs, development, administration and appointments. The Director and Principal decide the schemes of progress for the well- being of the organization. Functions such as College Day, Sports Day, Career Guidance Programmes and academic meetings such as Workshops, Seminars and Conferences are designed to showcase the talents of students

The HODs of various departments will identify and address the needs of the departments. Also the day- to-day activities of the departments will be discussed with the Director and Principal.

For faster and authentic data management, the college plans to implement e – governance systems such as smart card-based services to students and staff and automated student feedback.

### **Criterion – VII**

#### **Innovation and Best practices**

The two best innovative practices which vitally contribute towards the enhancement of the quality:

- Tutor system is to ensure that each student is taken care individually in which they can talk about their academic and personal development and career planning.

- Faculties are motivated to get more funded research projects and to publish their findings in high quality impact factor journals. Interdisciplinary research is also encouraged among faculty members through Research and Development.

With the present 21<sup>st</sup> Century challenges in Indian Higher Education, our college aspires and strives to produce young professionals with potential needed for the development of the nation.

### **3. SWOC ANALYSIS OF THE INSTITUTION**

#### **STRENGTH**

- Funded Research Projects undertaken from leading funding agencies.
- Eco – friendly and amicable working atmosphere, good infrastructure.
- Updated curriculum to impart futuristic technical education to improve the standard of the students.
- Experienced, dedicated and highly qualified faculty members.
- Constant encouragement given for faculty members in pursuing research leading up to Ph.D
- Well-equipped laboratory, library and internet Facilities
- Ample industry interaction

#### **WEAKNESS**

- Lack of support for international collaboration.
- Majority of students are from rural areas.
- Few number of patents.
- Less consultancy work.

#### **OPPORTUNITIES**

- Project internship for students in industries and national laboratories.
- Innovation in teaching – learning process.
- Development of web-based online courses.
- Participation of students in club activities, intercollegiate competitions.
- Soft skill training, GATE coaching, BEC and aptitude exams for students.

#### **CHALLENGES**

- Collaboration with foreign universities.
- Students with diverse background.
- Balancing administrative, academic and research work.
- Constant changes in technology.
- Promoting study-abroad and student-exchange programs for higher semester students.
- Creating Entrepreneurs.

#### 4. Profile of the Institution

##### Self-Study for Autonomous Colleges

#### B. Profile of the Autonomous College

1. Name and address of the College:

Name: National Engineering College	
Address: K.R.Nagar - 628503	
City: Kovilpatti	State: Tamilnadu
Website: www.nec.edu.in	

2. For communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr.S.Shanmugavel	O: 04632-222502 R:	9488702250	04632 232749	principal@nec.edu.in
Vice Principal	NA	O: R:	-	-	-
Steering Committee Co-ordinator	Mrs.Babitha Thangamalar	O: R:	9994137348		babitha@nec.edu.in
Co-coordinator	Mrs.C. Asha Beaula	-	9597040310	-	cabece@nec.edu.in

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' (dd/mm/yyyy)  
20/07/1984

b. Date of grant of 'Autonomy' to the College by UGC: (dd/mm/yyyy)  
22/03/2011

6. Type of institution:

**a. By Gender**

- i. For Men
- ii. For Women
- iii. Co-education

**b. By shift**

- i. Regular
- ii. Day
- iii. Evening

**c. Source of funding**

- i. Government
- ii. Grant-in-aid

- iii. Self-financing   
 iv. Any other (Please specify)

7. Is it a recognized minority institution?

Yes   
 No

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

8. a. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
i. 2 (f)	22.04.2010	-
ii. 12 (B)	27.07.2015	-

Details enclosed in Annexure-I

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	07.04.2015	One year	As per Enclosure	Every year approval has to be renewed with AICTE

Details enclosed in Annexure-II

9. Has the College been 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: ..... (dd/mm/yyyy)

10. Location of the campus and area:

Location *	Rural
Campus area in sq. mts or acres	4,93,950.00 Sq.m
Built up area in sq. mts.	70,816.88 Sq.m

(\* 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.

- Auditorium/seminar complex ✓
- Sports facilities
  - \* play ground ✓
  - \* swimming pool ✕
  - \* gymnasium ✓
- Hostel
  - \* Boys' hostels ✓
  - \* Girls' hostels ✓
- Residential facilities
  - \* for teaching staff ✓
  - \* for non-teaching staff ✓
- **Cafeteria** ✓
- Health centre –
  - First aid facility ✓
  - Inpatient facility ✕
  - Outpatient facility ✓
  - ambulance facility ✓
  - emergency care facility ✓
- Health centre staff –
 

○ Qualified doctor	Full time	Part-time ✓
○ Qualified Nurse	Full time ✓	Part-time
- Other facilities
  - Bank ✓
  - ATM ✓
  - post office ✓
  - book shops ✓
- Transport facilities
  - \* for students ✓
  - \* for staff ✓
- Power house ✓
- Waste management facility ✓

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

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned / approved Student intake	No. of students admitted 2015-2016
1.	UG	B.E Mechanical Engineering	4 Years	+2	English	120	123
		B.E Electronics & Communication	4 Years	+2	English	120	117
		B.E Computer science & Engineering	4 Years	+2	English	120	119
		B.E Electrical & Electronics Engineering	4 Years	+2	English	120	124
		B.E Electronics & Instrumentation Engineering	4 Years	+2	English	60	57
		B.E Civil Engineering	4 Years	+2	English	60	58
		B.Tech Information Technology	4 Years	+2	English	60	56
2.	PG	M.E Production Engineering	2 Years	B.E	English	18	0
		M.E Energy Engineering	2 Years	B.E	English	18	2
		M.E Computer science & Engineering	2 Years	B.E	English	25	10
		M.E Communication Systems	2 Years	B.E	English	18	7
		M.E Communication and Networking	2 Years	B.E	English	18	0
		M.E High Voltage Engineering	2 Years	B.E	English	18	4
		M.E Control & Instrumentation	2 Years	B.E	English	18	4
		M.E Embedded System Technologies	2 Years	B.E	English	18	0
3.	Integrated Masters	-	-	-	-	-	-
4.	M.Phil.	-	-	-	-	-	-
5.	Ph.D.	-	-	-	-	-	-
6.	Integrated Ph.D.	-	-	-	-	-	-
7.	Certificate	-	-	-	-	-	-
8.	Diploma	-	-	-	-	-	-

Sl. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned / approved Student intake	No. of students admitted 2015-2016
9.	PG Diploma	-	-	-	-	-	-
10.	Any other (please Specify)	-	-	-	-	-	-

13. Does the institution offer self-financed Programmes?

Yes  No

If yes,  how many?

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

Yes  No

If yes

Number

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 Under Graduate Post Graduate Research centre(s)		
Arts Under Graduate Post Graduate Research centre(s)		
Commerce Under Graduate Post Graduate Research centre(s)		
Any Other (please specify) Professional (Engineering, Technology & MCA)		
Under Graduate	07	2868
Post Graduate	08	167
Research centre(s)	06	176

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, M Sc, BCom etc.)

a. annual system

b. semester system **16**

c. trimester system

18. Number of Programmes with

a. Choice Based Credit System

b. Inter/multidisciplinary approach

c. Any other ( specify) Credit System

19. Unit Cost of Education (Academic year 2014-2015)

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

(a) including the salary component

(b) excluding the salary component

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

Details enclosed in Annexure-III

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

1. AICTE

2. Anna University

Details enclosed in Annexure-II & III

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 <i>Recruited</i> <i>Yet to recruit</i>										
Sanctioned by the Management/Society or other authorized bodies <i>Recruited</i> <i>Yet to recruit</i>	14	6	17	5	98	80	104	23	45	10
<i>recruit</i>	-	-	-	-	-	3	-	-	-	-

\*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.	13	6	9	3	2	3	36
M.Phil.	1	-	-	1	14	16	32

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
PG (M.E/M.Tech/M. C.A/ M.B.A/M.A)	-	-	8	1	82	61	152
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	M	F
From the state where the College is located	336	316	5	22																
From other states of India	-	-	-	-																
NRI students	-	-	-	-																
Foreign students	-	-	-	-																
Total	336	316	5	22																

\*M-Male F-Female

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

UG 10

PG 03

29. Number of working days during the last academic year : 262 Days
30. Number of teaching days during the last academic year : 159 Days
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

Name of the Programme	Teacher-Student ratio
B.E Mechanical Engineering	<b>1:15</b>
B.E Electrical and Electronics Engineering	<b>1:15</b>
B.E Electronics and Communication Engineering	<b>1:15</b>
B.E Computer Science and Engineering	<b>1:15</b>
B.E Electronics and Instrumentation Engineering	<b>1:13</b>
B.E Civil Engineering	<b>1:15</b>
B.Tech Information Technology	<b>1:15</b>
M.E.Manufacturing Engineering	<b>1:7</b>
M.E Energy Engineering	<b>1:5</b>
M.E Computer science and Engineering	<b>1:12</b>
M.E Communication Systems	<b>1:12</b>
M.E.Communication and Networking	<b>1:12</b>
M.E High Voltage Engineering	<b>1:12</b>
M.E Control & Instrumentation	<b>1:12</b>
M.E Embedded System Technologies	<b>1:12</b>
Master of Computer Applications	<b>1:18</b>

33. Is the College applying for?

Accréditation : 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: 21.02.2014 (dd/mm/yyyy) Accreditation outcome/results  
Cycle 2: (dd/mm/yyyy) Accreditation outcome/results  
Cycle 3: (dd/mm/yyyy) Accreditation outcome/results  
\*Details Enclosed in Annexure-IV  
Cycle 1 refers to first accreditation; Cycle 2 and beyond refers to reaccreditation
35. a. Date of establishment of Internal Quality Assurance Cell (IQAC)  
06.06.2013(dd/mm/yyyy)  
b. Dates of submission of Annual Quality Assurance Reports (AQARs).  
(i) AQAR for year 2013-14 on 25.06.2014 (dd/mm/yyyy)  
(ii) AQAR for year 2014-15 on 26.06.2015 (dd/mm/yyyy)  
(iii) AQAR for year on (dd/mm/yyyy)  
(iv) AQAR for year on (dd/mm/yyyy)
36. Any other relevant data, the College would like to include. (Not exceeding one page)

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## ANNEXURE-I

Ph. 23236351, 23232701, 23237721  
23234116, 23235733, 23232317  
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)  
UGC Website: [www.ugc.ac.in](http://www.ugc.ac.in)

F No. 8-88/2010 (CPP-I/C)

The Registrar,  
Anna University,  
Tirunelveli – 627 007,  
**Tamil Nadu.**



विश्वविद्यालय अनुदान आयोग  
बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002  
UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

P.S. To Prd.  
V.K. Jaiswal  
26/4  
April, 2010

Sub: Recognition of College under Section 2 (f) of the UGC Act, 1956.

Sir,

I am directed to refer to the letter No. NEC/Autonomous/2009-2010/2067 dated 26.03.2010 received from the Principal, National Engineering College, K.R. Nagar, Kovilpatti – 628 503, Thoothukudi Dist., Tamil Nadu on the above subject and to say that the name of the following College has been included in the list of Colleges prepared under Section 2 (f) of the UGC Act, 1956 under the head Non Government Colleges teaching upto Master's Degree:-

Name of the College	Year of Establishment	Remarks
National Engineering College, K.R. Nagar, Kovilpatti – 628 503, Thoothukudi Dist., Tamil Nadu.  (On Temporary affiliation)	1984	The College is not fulfilling the requirement of permanent affiliation. Therefore, the College is not eligible to receive Central assistance under Section 12 (B) of the UGC Act 1956.

The Indemnity Bond and the supporting documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,

*V.K. Jaiswal*  
(V.K. Jaiswal)  
Deputy Secretary

Copy to:-

1. The Principal, National Engineering College, K.R. Nagar, Kovilpatti – 628 503, Thoothukudi Dist., (Tamil Nadu).
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi - 110 001.
3. The Secretary, Government of Tamilnadu, Department of Higher Education, Chennai, (Tamil Nadu).
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).
5. Publication Officer (Website-UGC), New Delhi.
6. Section Officer (F.D.-III Section), U.G.C., New Delhi.
7. All Sections, U.G.C. New Delhi.
8. Guard file.

*Sunita Gulati*  
(Sunita Gulati)  
Section Officer

Ph 23236351, 23232701, 23237721  
23234116, 23235733, 23232317  
23236733, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)  
UGC Website: www.ugc.ac.in



विश्वविद्यालय अनुदान आयोग  
बादादुरशाह जफर मार्ग  
नई दिल्ली-110 002  
UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

F No 8-88/2010 (CPP-IG)

27 July 2015  
27 JUL 2015

The Registrar,  
Anna University  
Sardar Patel Road, Chennai - 600 025  
Tamil Nadu

**Sub:** - Declaring a College fit to receive Central Assistance under Section 12 (B) of the UGC Act, 1956

Sir,

I am directed to refer to the letter no. NEC/Autonomous/2014-2015/2154 dated 11.05.2015 received from the Principal, National Engineering College, K.R. Nagar, Kovilpatti - 628 503, Thoothukudi District, Tamil Nadu on the above subject and to say that it is noted that the following college is **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 22.04.2010.** 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 College teaching upto Master's Degree**' -

Name of the College	Year of Establishment	Remarks
National Engineering College, K.R. Nagar, Kovilpatti - 628 503, Thoothukudi District, Tamil Nadu	1984	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

The documents submitted in respect of the above College have been accepted by the University Grants Commission

Yours faithfully,

(Charan Dass)  
Under Secretary

Copy to -

- ✓ The Principal, National Engineering College, K.R. Nagar, Kovilpatti - 628 503, Thoothukudi District, Tamil Nadu.
- The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi - 110 001.
- The Secretary, Higher Education Deptt., Government of Tamilnadu, Secretariat, Chennai - 600 009, (Tamil Nadu)
- 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)
- Publication Officer (UGC-Website), New Delhi
- Section Officer (FD-III Section), UGC, New Delhi
- Guard file

(Charan Dass)  
Under Secretary

## ANNEXURE-II



*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/1-2456214208/2015/EOA

Date: 07-Apr-2015

To,  
The Principal Secretary  
(Higher Education) Govt. of Tamil Nadu,  
N. K. M. Bld. 6th Floor Secretariat,  
Chennai-600009

*All HODs*  
*S*  
*13/4/15*

**Sub: Extension of approval for the academic year 2015-16**

Ref: Application of the Institution for Extension of approval for the academic year 2015-16

Sir/Madam,

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	1-2456214208
		Permanent Id	1-6350609
Name of the Institute	NATIONAL ENGINEERING COLLEGE	Institute Address	K.R.NAGAR, NALATTINUPUTHUR, KOVILPATTI, TUTICORIN DISTRICT, TAMILNADU., KOVILPATTI, THOOTHUKUDI, Tamil Nadu, 628503
Name of the Society/Trust	NATIONAL EDUCATIONAL AND CHARITABLE TRUST	Society/Trust Address	111 & 112, MARKET ROAD, KOVILPATTI, KOVILPATTI, THOOTHUKUDI, Tamil Nadu, 628501
Institute Type	Unaided - Private		

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2015-16

Application Number: 1-2456214208\*

Page 1 of 4

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:13 April 2015

Printed By : AE1733781



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)

Application Id: 1-2456214208			Course	Full/Part Time	Affiliating Body	Intake 2014-15	Intake Approved for 15-16	NET Approval status	PGO Approval status	Foreign Collaboration Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMMUNICATION AND NETWORKING	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA
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	25	25	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CONTROL AND INSTRUMENTATION	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	EMBEDDED SYSTEMS TECHNOLOGIES	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ENERGY ENGINEERING	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	HIGH VOLTAGE ENGINEERING	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MANUFACTURING ENGINEERING	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA

Application Number: 1-2456214208\*

Page 2 of 4

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:13 April 2015

Printed By : AE1733781



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)

Application Id: 1-2456214208			Course		Affiliating Body					
Program	Shift	Level		Full/Part Time		Intake 2014-15	Intake Approved for 15-16	REI Approval status	PIC Approval status	Foreign Collaboration Approval status
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS & COMMUNICATION ENGG	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA

Note: Validity of the course details may be verified at [www.aicte-india.org>departments>approvals](http://www.aicte-india.org>departments>approvals)

The above mentioned approval is subject to the condition that NATIONAL ENGINEERING COLLEGE 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.

Application Number: 1-2456214208\*

Page 3 of 4

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:13 April 2015

Printed By : AE1733781



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)

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.

Dr. Avinash S Pant  
Actg Chairman, AICTE

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
Shastri Bhawan 26, Haddows Road  
Chennai - 600 006, Tamil Nadu
2. **The Director Of Technical Education,**  
Tamil Nadu
3. **The Registrar,**  
Anna University, Chennai
4. **The Principal / Director,**  
NATIONAL ENGINEERING COLLEGE  
K.R.NAGAR, NALATTINPUTHUR, KOVILPATTI, TUTICORIN DISTRICT, TAMILNADU.,  
KOVILPATTI, THOOTHUKUDI,  
Tamil Nadu, 628503
5. **The Secretary / Chairman,**  
NATIONAL EDUCATIONAL AND CHARITABLE TRUST  
111 & 112, MARKET ROAD, KOVILPATTI,  
KOVILPATTI, THOOTHUKUDI,  
Tamil Nadu, 628501
6. **Guard File(AICTE)**

Application Number: 1-2456214208\*

Page 4 of 4

Note: This is a Computer generated Letter of Approval.No signature is required.

Letter Printed On:13 April 2015

Printed By : AE1733781

## ANNEXURE-III



**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. 467 / CAI / Permanent Affln. / 2014-15

Dated: 12.11.2014

To

The Principal,  
**National Engineering College (Autonomous),**  
K.R. Nagar, Kovilpatti,  
Tuticorin District – 628 503.

Sir,

Sub: **Permanent Affiliation** - Granting of Permanent Affiliation for the existing programmes – 2014-15 – Reg.

Ref: Your application for the grant of Permanent Affiliation.

\*\*\*\*\*

I am to inform that under the provisions of section 7.6.2 of the Anna University statutes for affiliation, **Permanent Affiliation** for the existing programme(s) is granted for the following B.E. / B.Tech. / B.Arch. / M.E. / M.Tech. / M.B.A / M.C.A programme(s) with the sanctioned intake indicated against each from the academic year 2014-15 at **National Engineering College (Autonomous), K.R. Nagar, Kovilpatti, Tuticorin District– 628 503.**

Sl. No.	Degree	Programme(s)	Sanctioned intake	Year from which Permanent Affiliation is granted
1	B.E.	Computer Science and Engineering	120	2014-15
2	B.E.	Electrical and Electronics Engineering	120	
3	B.E.	Mechanical Engineering	120	
4	B.Tech.	Information Technology	60	

The above said status of Permanent Affiliation is granted subject to the following conditions:

1. The college should obtain extension of approval by the UGC / AICTE / COA / DGS as applicable for every academic year for the above mentioned programmes with the corresponding sanctioned intake. In the absence of extension of approval from the appropriate authority, the Permanent Affiliation now granted will not be valid.
2. In case of increase in intake granted by the appropriate authority for a permanently affiliated programme, the college should apply to the University for the grant of affiliation for the increased intake and orders of the University should be obtained for increasing the intake of the permanently affiliated programme.

3. The college should continue to fulfill the requirements for the above mentioned programmes as per the norms and standards of the University and the laboratory requirements as per the curricula and syllabi of Anna University, Chennai for these programmes.
4. The college should strictly adhere to and comply with the provisions of Anna University Act / Statutes / Regulations norms and standards / guidelines or any other law time being in force.
5. The permanent affiliation granted may be suspended / withdrawn after adopting the procedures laid down in the Regulations, if the college fails to comply with the provisions made in this behalf or the college has failed to observe / implement any of the conditions of affiliation or the college has conducted in a manner which is prejudicial to the interests of University education and/or students.
6. Notwithstanding the granting of Permanent Affiliation, the university reserves its right to inspect the college to verify the continued fulfillment of the affiliation requirements as prescribed by the University for the Programmes concerned.
7. The Permanent Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of Tamil Nadu Land Reforms (LC) Act 1961 subject to the decision of the Hon'ble High Court of Madras in W.A.No. 3454 / 2002 batch and W.A.No. 3482 / 2002 batch.
8. The Management is directed to submit a duly signed undertaking on a Rs.100/- non-judicial stamp paper to the Registrar, Anna University Chennai, Chennai-600 025, within 15 days from the date of receipt of this letter to the effect that the conditions specified above will be fulfilled.

Yours sincerely

*[Handwritten Signature]*  
 REGISTRAR  
 REGISTRAR  
 ANNA UNIVERSITY  
 CHENNAI-600 025



*[Handwritten Signature]* Copy to:

1. The Commissioner of Technical Education, Chennai – 600 025.
2. The Controller of Examinations, Anna University Chennai, Chennai – 600 025.
3. The Director, Student Affairs, Anna University Chennai, Chennai – 600 025.
4. The Director, Academic Courses, Anna University Chennai, Chennai – 600 025.
5. Master File.



**ANNA UNIVERSITY**  
CHENNAI - 600 025, INDIA

Phone : (O) 22352161, 22357004  
(R) 22420095  
Fax : 91-44-2235 1956  
Gram : ANNATECH  
E-mail : registrar@annauniv.edu

REGISTRAR

Lr. No. 087 / CAI / Permanent Affiln / 2013-14

Dated:29.04.2014

To

The Principal,  
**National Engineering College,**  
K.R Nagar,  
Kovilpatti – 628 617,  
Thoothukudi District.

Sir,

Sub: **Permanent Affiliation** - Granting of Permanent Affiliation for the existing programmes – 2013-14 – Reg.

Ref: 1. Resolution 53.3 of 53<sup>rd</sup> SCA meeting held on 04.10.2013.  
2. Resolution 228.26 of 228<sup>th</sup> Syndicate held on 28.01.2014.

\*\*\*\*\*

I am to inform that under the provisions of section 7.6.2 of the Anna University statutes for affiliation, **Permanent Affiliation** for the existing programme(s) is granted for the following B.E. / B.Tech. / B.Arch. / M.E. / M.Tech. / M.B.A / M.C.A programme(s) with the sanctioned intake indicated against each from the academic year 2013-14 at **National Engineering College, K.R Nagar, Kovilpatti, Thoothukudi District – 628 617.**

Sl. No.	Degree	Programme(s)	Sanctioned intake	Year from which Permanent Affiliation is granted
1.	B.E.	Electronics and Communication Engineering	120	2013-14
2.	B.E.	Electronics and Instrumentation Engineering	60	

The above said status of Permanent Affiliation is granted subject to the following conditions:

1. The college should obtain extension of approval by the UGC / AICTE / COA / DGS as applicable for every academic year for the above mentioned programmes with the corresponding sanctioned intake. In the absence of extension of approval from the appropriate authority, the Permanent Affiliation now granted will not be valid.
2. In case of increase in intake granted by the appropriate authority for a permanently affiliated programme, the college should apply to the University for the grant of affiliation for the increased intake and orders of the University should be obtained for increasing the intake of the permanently affiliated programme.

3. The college should continue to fulfill the requirements for the above mentioned programmes as per the norms and standards of the University and the laboratory requirements as per the curricula and syllabi of Anna University, Chennai for these programmes.
4. The college should strictly adhere to and comply with the provisions of Anna University Act / Statutes / Regulations norms and standards / guidelines or any other law time being in force.
5. The permanent affiliation granted may be suspended / withdrawn after adopting the procedures laid down in the Regulations, if the college fails to comply with the provisions made in this behalf or the college has failed to observe / implement any of the conditions of affiliation or the college has conducted in a manner which is prejudicial to the interests of University education and/or students.
6. Notwithstanding the granting of Permanent Affiliation, the university reserves its right to inspect the college to verify the continued fulfillment of the affiliation requirements as prescribed by the University for the programmes concerned.
7. The Permanent Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of Tamil Nadu Land Reforms (LC) Act 1961 subject to the decision of the Hon'ble High Court of Madras in W.A.No. 3454 / 2002 batch and W.A.No. 3482 / 2002 batch.
8. The Management is directed to submit a duly signed undertaking on a Rs.20/- non-judicial stamp paper to the Registrar, Anna University Chennai, Chennai-600 025, within 15 days from the date of receipt of this letter to the effect that the conditions specified above will be fulfilled.

Yours sincerely



Copy to:

**REGISTRAR**

REGISTRAR

ANNA UNIVERSITY  
CHENNAI-600 025

1. The Commissioner of Technical Education, Chennai – 600 025.
2. The Controller of Examinations, Anna University Chennai, Chennai – 600 025.
3. The Director, Student Affairs, Anna University Chennai, Chennai – 600 025.
4. The Director, Academic Courses, Anna University Chennai, Chennai – 600 025.
5. Master File.



# ANNA UNIVERSITY

CHENNAI - 600 025, INDIA

Phone : (O) 22352161, 2235700

Fax : 91-44-2235 1956

Gram : ANNATECH

E-mail : registrar@annauniv.ed

REGISTRAR

Lr No. 02 /AFFLN/CAI/AU/TVL/2014-15/3

Date: 23-06-2014

To

The Principal,  
National Engineering College (Autonomous),NH 7, KR  
Nagar, Nalattinuthur / Kovilpatti, Tuticorin-628503

Sr,

Sub: AU - AFFILIATION - Provisional Affiliation for the existing course(s) / New course(s) / variation in intake - U.G. / P.G. for the academic year 2014-15 Granted - Reg.

- Ref: 1. Your application for affiliation for the academic year 2014-15  
2. AICTE Approval for the academic year 2014-15.

I am to inform that under the provisions of Section 7.6.1 of the Statutes for affiliation of Anna University, Chennai, **Provisional Affiliation** for the continuation of the existing course(s) / new course(s) / variation in intake in the existing course(s) is granted for the following U.G / P.G. courses with the sanctioned intake mentioned against each course for the academic year **2014-15** at **National Engineering College (Autonomous),NH 7, KR Nagar, Nalattinuthur / Kovilpatti, Tuticorin-628503**.

Sl. No.	Degree	Course(s)	Sanctioned Intake	
			2013-14	2014-15
1	B.E.	Civil Engineering	60	60
2	B.E.	Computer Science and Engineering	120	120
3	B.E.	Electrical and Electronics Engineering	120	120
4	B.E.	Mechanical Engineering	120	120
5	B.Tech.	Information Technology	60	60
6	M.C.A.	Master of Computer Application	60	60
7	M.E.	Communication and Networking	18	18
8	M.E.	Communication Systems	18	18
9	M.E.	Computer Science and Engineering	25	25
10	M.E.	Control and Instrumentation Engineering	18	18
11	M.E.	Embedded System Technologies	18	18
12	M.E.	Energy Engineering	18	18
13	M.E.	High Voltage Engineering	18	18
14	M.E.	Manufacturing Engineering	18	18

The above said Provisional Affiliation is being granted subject to the fulfillment of the conditions mentioned below:

- Production of Originals of AICTE / COA / DGS approval and all other related documents for verification, whenever demanded by the University.
- Verification by a committee towards the fulfillment of the conditions mentioned above and the continued fulfillment of the requirements for the above-mentioned course(s) as per the norms and standards of AICTE and the laboratory requirements as per the curricula and syllabi of Anna

University, Chennai for the above courses. In the event of any violation/infringement of the above said conditions and / or the provisions of Anna University, Chennai Act / Statutes / Regulations, AICTE Act, norms & standards / regulations / guidelines or any other law time being in force, suitable action including suspension / withdrawal of affiliation of course(s) may be initiated against the college.

- Under no circumstances, fresh admission be made in the above course(s) during the academic year 2015-16, until and unless the continuation of provisional affiliation is obtained from the University.

The Provisional Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of TAMILNADU Reforms (LC) Act 1961 subject to the decision of the Hon'ble High Court of Madras in W.A. No. 3454 / 2002 batch and W.A. No. 3482 / 2002 batch.

The Chairman should submit an undertaking duly signed on a Rs.100/- non-judicial stamp paper to **The Registrar, Anna University, Chennai 600 025**, within 15 days from the date of receipt of this letter stating that the conditions specified above be fulfilled and The Chairman is aware of the fact that the University may conduct surprise inspections to verify the fulfillment of requirements as per the norms and standards of Anna University for the continuation of affiliation.



Copy to:

25/6/14

Yours sincerely,  
  
**REGISTRAR**  
**REGISTRAR**  
**ANNA UNIVERSITY**  
**CHENNAI-600 025**

1. The Commissioner of Technical Education, DOTE campus, Chennai - 600 025.
2. The Regional Officer, Southern Regional Office, AICTE, 26, Haddows Road, Shastri Bhawan, Chennai 600 006.
3. The Controller of Examinations, Anna University, Chennai - 600 025.
4. The Director, Student Affairs, Anna University, Chennai - 600 025.
5. Master file.

ANNEXURE-IV



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद  
विराटविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL  
An Autonomous Institution of the University Grants Commission

## Certificate of Accreditation

*The Executive Committee of the  
National Assessment and Accreditation Council  
on the recommendation of the duly appointed  
Peer Team is pleased to declare the  
National Engineering College (Autonomous)  
Kovilpatti, Dist. Thoothukudi, affiliated to Anna University, Tamil Nadu as  
Accredited  
with CGPA of 2.50 on four point scale  
at B grade  
valid up to February 20, 2019*

Date: February 21, 2014



*Anuraj Kumar*  
Director

EC/66/A&A/078

## **5. CRITERIA-WISE ANALYTICAL REPORT**

### **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 of the institution is reflected through the following activities of the college:**

- Offering courses in the core and allied engineering disciplines.
- Establishing Collaborative Centre for Research in the fields of Engineering and Technology.
- Conducting remedial courses and bridge courses for slow learners and lateral entry students.
- Providing hands-on training in the emerging areas through workshops, demonstration packages and innovative projects
- Motivating and encouraging students and faculty members in research, consultancy and new product / process development and knowledge development.
- Modification / upgradation of curriculum and syllabi in accordance with feedback and inputs from industry, research organization and professional bodies.
- Encouraging and incentivizing the faculty members for consultancy, publications and IPRs.
- Inviting experts from leading R&D organizations and Industries for involving them in academic programmes.

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

#### **Curriculum Design of the college**

- ❖ The current needs of the industry and society are assessed and the draft Curriculum is designed by the head and faculty members of the respective departments.
- ❖ The Anna University model syllabus and the syllabi of leading foreign and Indian Universities and Autonomous colleges are referred to for curriculum development and design to serve the needs of students, such as employment and higher studies.

- ❖ The draft curriculum is placed before the Board of Studies for discussion / revision. Suggestions and recommendations are incorporated after due consideration.

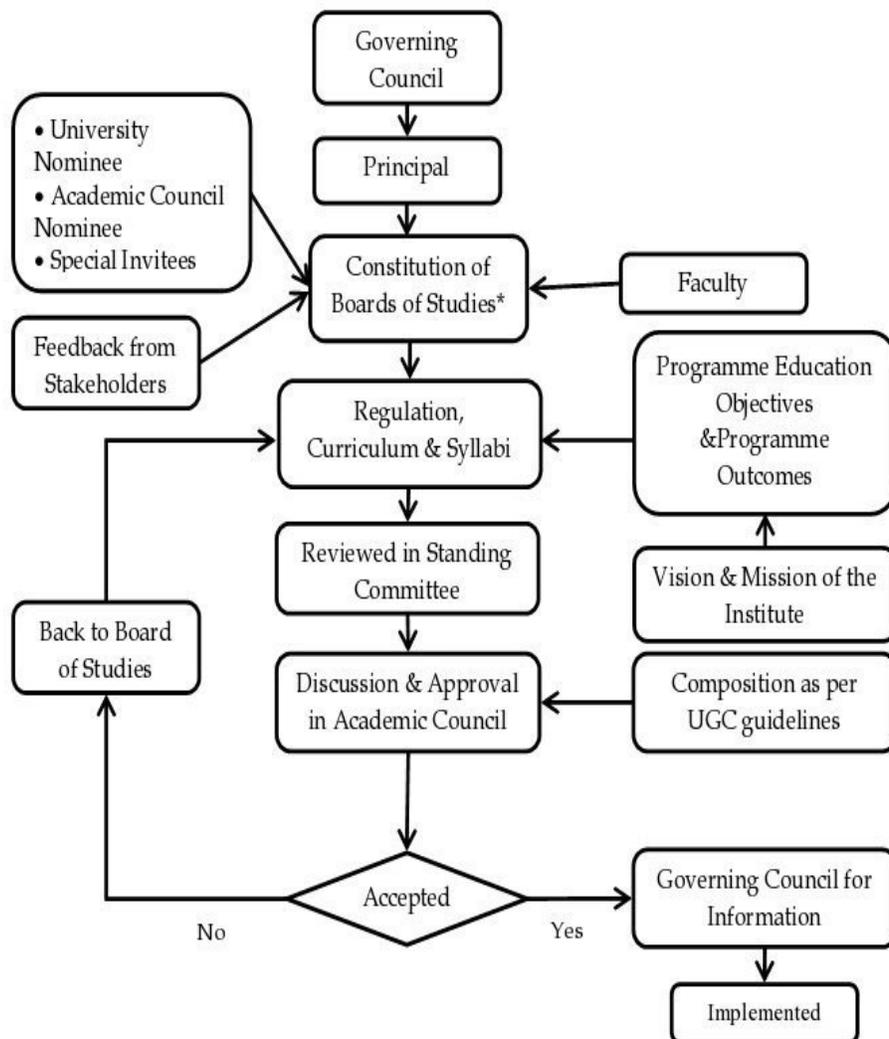
**REVIEW AND APPROVAL**

- ❖ A copy of the curriculum is placed before the Academic Council For final approval.

**IMPLEMENTATION**

- ❖ A resolution is passed by the Academic Council and the new/ revised Curriculum is implemented in the forthcoming academic year.

Following flowchart gives the pictorial representation of the curriculum development process.



**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 institution involves internal and external academic experts from Industry/Academic Sector in Curriculum development process by including them in the Board of Studies and Academic Council which are statutory bodies that are responsible for the Curriculum development process.

- The Board of Studies comprises of the Board Chairman and approximately 7 faculty members of the concerned board, minimum two (maximum three) external subject experts, one alumnus and one representative from the industry and one Anna University nominee is also invited for suggestions in the framing or redesigning of the curriculum.
- Approved by Academic Council for final approval
- The Academic Council comprises Director, Principal, Dean (Academic), Dean (R&D), Dean (TCP),COE, Chairman of all the Boards, three nominated senior teachers of the college with Associate Professor rank, six experts from external (representing such areas as education, Industry, engineering etc.), three expert nominees of Anna university and the Principal acts as Member Secretary.

**Stakeholders**

- The feedback is given by alumni/parents/other organizations and relevant suggestions are considered while designing the curriculum.
- By involving these stakeholders in the curriculum design, the college ensures that the curriculum developed encompasses components for employability, research, topics in emerging trends, social relevance and social needs. As a result, the curriculum remains updated. It offers huge scope for in-depth knowledge and equips the learner to compete successfully at the vertical and horizontal levels.

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

- Employability
- Innovation
- Research

**Employability**

**Employability is ensured through the following aspects:**

- Need - based curriculum.
- Acquisition - based training.
- Presentation of technical papers at seminars and conferences.
- Participation at in-house and national level competitions.

**Innovation is encouraged through the following aspects:**

- Value added courses / Training to the students.
- Project grant for UG and PG students to work on innovative projects.
- Grant for Faculty working on innovative projects.
- Award of cash prizes for successful innovative work.

**The research ability of the students is brought out through the following aspects:**

- Providing access to all the research infrastructure for students to carry out Project work.
- Good academic reward for research publications.
- Promoting encouragement and motivation to faculty members for pursuing higher Studies (Ph.D).

**No. of Faculty members with Ph.D and pursuing Ph.D as on-Jan 2016**

S. No.	No. of Ph.D Holders	Internal Scholars		External Scholars Pursuing Ph.D.
		Thesis Submitted	Pursuing Ph.D.	
1.	35	1	67	130

- Motivation to faculty members for publishing research papers in high impact journals (Good number of papers in reputed journals with an impact factor of more than 1)
  - Cash award of Rs.2,000/- for papers published with impact factor less than 0.5
  - Cash award of Rs.5,000/- for papers published with impact factor greater than 0.5 and lesser than 1.5
  - Cash award of Rs.10,000/- for papers published with impact factor greater than 1.5

**Anna University Recognized Research Centers:**

- ❖ Computer Science Engineering Department
- ❖ Electronics and Communication Engineering Department
- ❖ Mechanical Engineering Department
- ❖ Electrical and Electronics Engineering Department
- ❖ Electronics and Instrumentation Engineering Department
- ❖ Chemistry Department

**1.1.5 How does College ensure that the curriculums developed address the needs of the society and have relevance to the regional / national developmental needs?**

- ❖ Subjects like Environmental Studies & Professional Ethics is mandatory for all the under graduate students.
- ❖ To motivate economically backward student communities in and Around Kovilpatti

- ❖ To improve their career through Strategic Planning Division in our institution.

**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 Institution follows the guidelines of UGC, AICTE and alike regulatory bodies for development and restructuring of curricula. Suggestions acquired from Members of regulatory bodies are considered.

**1.2 Academic Flexibility**

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

**a. Core / Elective options.**

- Common and core subjects are given from I Semester to V Semester. Nearly 30% of the subjects are given as Electives from VI Semester to VIII Semester for Under Graduate students. The same percentages of the subjects are given as Electives from I to III semester for Post Graduate students also.
- Since the institution is in infant stage of its autonomy, the impact of newly designed curriculum will be assessed a few years after graduation of the students who have undergone the curriculum.

**b. Enrichment courses**

Advanced and enrichment courses are offered as Electives during the final year UG and PG Degree Programmes.

**c. Courses offered in modular form**

Industry offered courses in modular form (Offered in periodic intervals) are being proposed for PG curriculum.

**d. Credit accumulation and transfer facility**

- Each course is normally assigned certain number of credits with 1 credit per lecture period per week, 1 credit per tutorial period per week, 1 credit for 2 periods of laboratory or practical or seminar or project work per week (2 credits for 3 or 4 periods of practical) and 1 or 2 credits for 4 weeks of industrial training. In each semester, the curriculum shall normally have a blend of lecture courses not exceeding 7 and practical courses not exceeding 4. For the award of the degree, a student has to earn a certain minimum total number of credits specified in the curriculum of the relevant branch of study. In regulation 2013, the total credits are 204 for the UG branches and 69 for PG branches. While concerning regulation 2015 the total credits ranges from 162-176 for the UG branches and 70-73 for the PG branches.

Type of course	Lectures (Periods/ week)	Tutorials (Periods/ week)	Practical work (Periods/ week)	Credits (L:T:P)	Total credits	Total (Periods/ week)
1 credit	1	0	0	1:0:0	1	1
	0	0	2	0:0:1	1	2
2 Credit	2	0	0	2:0:0	2	2
	1	0	2	1:0:1	2	3
3 Credit	3	0	0	3:0:0	3	3
	2	2	0	2:1:0	3	4
	2	0	2	2:0:1	3	4
	0	0	6	0:0:3	3	6
4 Credit	2	2	2	2:1:1	4	6
	3	2	0	3:1:0	4	5
	3	0	2	3:0:1	4	5

- Credit transfer facility, within the discipline, is offered to the students in the case of one-credit courses.
  - However, credit transfer across the Institutions is also availed of by the students.
- e. Lateral and vertical mobility within and across programmes, courses and disciplines**
- The curriculum allows lateral and vertical mobility within and across departments.
  - The student shall undergo one Open Elective Course (Trans disciplinary elective) from the courses given in **curriculum** through self study mode / online in any semester in addition to the other electives.
  - The continuous assessments will be done based on the case studies presented by the students as decided by the class committee. End Semester Examination will be conducted as per the procedure stipulated for theory courses

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

No.

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

No. College does not offer dual degree as per guidelines of Parent University.

**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?**

As the college is a self - financing institution, all the programmes offered are self - financing only.

### Self-financing programmes

#### UG

- ❖ B.E Mechanical engineering
- ❖ B.E Electronics and Communication Engineering

- ❖ B.E Computer science Engineering
- ❖ B.E Electrical and Electronics Engineering
- ❖ B.E Electronics and Instrumentation Engineering
- ❖ B.Tech Information Technology
- ❖ B.E Civil Engineering

### PG

- ❖ M.E Energy Engineering
- ❖ M.E Manufacturing Engineering
- ❖ M.E Computer science Engineering
- ❖ M.E Communication and Networking Engineering
- ❖ M.E Communication Systems
- ❖ M.E High voltage Engineering
- ❖ M.E Control and Instrumentation
- ❖ M.E Embedded Systems Technologies

### **STUDENTS ADMISSION**

- ❖ Admissions are as per the government norms.
- ❖ 65 % of the seats through government quota & 35 % by the management.

### **STUDENTS FEES STRUCTURE**

S.No.	Programme	Govt. Quota	Management Quota
1	UG	Rs. 45,000/-	Rs. 70,000 /-
2	PG	Rs. 75,000/-	Rs. 95,000 /-

**Teaching Qualification & Salary** : As per AICTE 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
- For Regulation 2015 all the UG and PG Programmes follow the Choice Based Credit System.

#### **1.2.6 What percentage of programmes offered by the College Follows?**

- \* Annual system
- \* Semester system
- \* Trimester system

All U.G and P.G Programme are 100 % Semester system.

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

A committee consisting of Director, Principal, HODs of Departments and Senior Professors of the college will participate in the brainstorming meeting vis-à-vis promoting interdisciplinary programmes. The decisions which are made in this meeting will be put up in the respective Board of Studies subsequently to Academic Council for its approval and ratification.

The Following are the interdisciplinary M.E. Programmes

- M.E. Energy Engineering
- M.E. Communication and Networking Engineering
- M.E. Embedded Systems Technologies

The graduates of the above - said interdisciplinary programmes would be able to involve themselves in new research realms.

**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?**

In order to keep the students abreast of the latest trends in the emerging areas and also to keep pace with the industrial needs and global competition, the curricula and syllabi are revised and enriched once in two years. However, as and when the need arises there is a provision to upgrade the curricula and syllabi.

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

- \* Inter-disciplinary
- \* Programmes in emerging areas

**UG**

- ❖ B.E., Civil Engineering(Introduced in the year 2012)

**PG**

- ❖ M.E Control and Instrumentation(Introduced in the year 2011)
- ❖ M.E Embedded Systems Technologies(Introduced in the year 2012)

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

- Based on the feedback received from stakeholders the re-designing of the curriculum including re-arrangement of topics and papers, inclusion of new topics and exclusion of less important topics is done by the Board of Studies, if required.
- The primary strategy adopted is to have consultations with Expert Committee and Board of Studies , comprising a university nominee, subject expert, industrialist and alumnae. The opinions/suggestions/recommendations are incorporated in the syllabi.

- 40% of the courses had undergone syllabus revision based on the recommendations of subject experts and academic experts.

#### **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 not in the curriculum but relevant to the department are offered as value added courses. Value added courses are offered as short term courses or full-term courses by all the departments. Emphasis to conduct value added courses, Special / Self-study courses are given in the Regulations of the Curriculum itself, which is circulated among the students during the beginning of the programme and interested students can get an opportunity to attend the programmes as they are arranged during the weekends, summer/winter vacations. During the working days, they are offered after the college hours. The alumni are also involved in the conduct of such programmes. The infrastructure facilities available in the centres of excellence are made accessible to the students during the conduct of the programmes.

Some of the value-added courses offered by the various departments of the Institution are given below.

- Intellectually designed communication skill development courses exclusively for rural students.
- Subject-wise technical skill- enhancing courses with experts in the field both from academia and industry.
- CISCO Training
- CNC programming, Computer Aided Manufacturing.
- Virtual Instrumentation.
- Sensor networks.
- Cloud computing and services, Green computing, E-learning techniques.
- Industrial Automation.
- Network Simulator II
- ARM Processor and Programming.
- Advanced Digital System design using HDL
- Digital System design using HDL.
- Aptitude training in C.
- Personality and Character Development Courses Like Yoga, Sports, NCC, NSS, YRC)
- Allied Skills like English Proficiency Certification, Soft Skills, Foreign / Vernacular Languages, Aptitude Proficiency Certification.
- Unigraphics.
- Catia.

**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?**

The following skill development programmes are introduced by the Institution, as outlined by the National Skills Development Corporation.

- Software training for School students and under privileged candidates
- Computer usage Training for Women self help group.
- MS Office package for junior assistant in various schools of thoothukudi district.

**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. Students are encouraged to provide the feedback on curriculum through a questionnaire.
- Feedback about the course and the course content are collected from the passed out students as Exit survey. With that survey the curriculum can be modified and enriched with new revised one.
- The students also may give the course end survey at the end of every semester.

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.
- During the conduct of National/International conferences and workshops, members from other institutes, industries, alumni members and others who visit our college are invited for meeting regarding the curriculum and syllabus feedback and suggestions for improvement.

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.

- Stakeholders like alumni, employers, industry experts and members from industry associations / research associations are inducted in the Board of Studies and Academic Council to offer contributions to enrich the curriculum.
- Feedbacks are also collected through the alumni working in various industries through mails.
- Feedback from employers, parents, representatives of society are obtained by sending questionnaire and getting the observations, New Courses and the latest technologies suggested by alumni and industry experts are included in the curriculum after due process

**1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring effective development of the curricula?**

As the Institution obtained autonomy in the year 2011, the regulation, curricula and syllabi of all academic programmes are revised whenever required with the help of Board of studies for each programme. The Board of Syllabus includes expert members not only from academics but also from relevant industries. The recommendation of Board of Syllabus is placed before Academic Council for discussion and approval. Taking into account the requirements of the various industries, current developments in the fields of science, engineering and technology and the specific needs of the society, new courses are included in the curricula. Moreover, there is a provision to include elective subjects every year, in the emerging area of science, engineering and technology.

## **CRITERION II : TEACHING – LEARNING AND EVALUATION**

### **2.1 Student Enrolment and Profile**

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

- Tamilnadu government has constituted a committee to regulate and monitor the admission process.
- 65% of admission is carried out through government quota which is a single window process.
- 35% of admission is carried out through management quota that is governed by the state government.
- As per the committee proceedings no self financing college should involve directly in the admission process.
- The committee identifies the agencies to prepare merit list for the management quota admission and conducts entrance examination for PG
- The college admits the candidates, selected through single window counseling for government allotment and for the management quota as per the merit list and allotment orders sent by the management.
- To create awareness of the college among the public the college details and facilities are uploaded in the college website.

#### **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?**

- For management quota state government has formed a committee for regulating the management quota admission in all engineering colleges in our state. Committee is headed by a retired judge. This regulation committee every year authorized association of engineering colleges to fill the management seats of all engineering colleges. Students get application forms from this association and send their application opting the colleges of their choice. The association prepares the rank list according to the issues allotment order to the candidate based on the choice of college. The management quota admission is done based on the allotment order issued by the management association. Remaining 65% admission are made by single window counseling conducted by Anna University, Chennai on behalf of state government.
- For PG admission, it's done by the entrance exam conducted by the association of engineering college. Merit students are allotted to the respective colleges based on their options.

**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?**

**Review of admission process and Student profile:**

The institution has a mechanism to review the admission process and student profile based on the following factors.

- Tamil/ English Medium
- Management/ Government Quota
- Hosteller/ Day Scholar
- Cut-Off Range
- Area-wise (Urban/Rural)
- District-wise

**Outcome:**

Review of the admission process and the subsequent analysis of the student profile help in providing equal representation from all sections of the society.

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

- **SC / ST**  
The college provides fee concessions and follows Merit-cum-roaster system to ensure social equity and concern for students belonging to SC and ST categories.
- **Women**  
As per the roaster system, women students also get equal opportunity at the time of admissions.
- **Differently-abled**  
The differently-abled students are allowed by the institution to have admission to the courses of their choice. The students are encouraged at every level in the institution.
- **First Graduate Scholarship Scheme**  
As per the direction of Tamilnadu Government, the student from the family has never had any graduate can use the benefit of this scheme.
- **Faculty**  
The faculty is sensitized to the requirements of differently- abled students during the classroom proceedings.
- **Economically-weaker sections**  
Most of the students belong to the economically weaker sections. Sufficient number of seats is available in UG programmes as per university rules.

- **Sports personnel**

Student belonging to the sports category, admissions are made after ascertaining the sports abilities as per the past records of achievements at district/state/national levels. They are given concession in the admission to various courses.

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

**U.G Degree**

Categories	2014-2015		2013-2014		2012-2013		2011-2012	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	34	28	28	41	33	42	29	30
ST	-	-	1	-	1	0	1	1
OBC	285	234	223	259	244	276	199	201
General	36	33	36	35	37	39	32	29
Others	-	-	-	-	-	-	-	-

**PG Degree**

Categories	2014-2015		2013-2014		2012-2013		2011-2012	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	-	4	2	4	4	7	6	7
ST	-	-	-	1	0	0	0	0
OBC	16	59	56	92	59	113	48	73
General	4	5	3	8	3	4	4	12
Others	-	-	-	-	-	-	-	-

**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.**

Programmes	Number of applications	Number of students admitted	Demand Ratio
UG	-	-	-
PG	-	-	-
Integrated Masters	-	-	-

Not applicable for Engineering Colleges.

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

Yes (MCA). Due to lateral entry system there was inadequate admission in MCA programme.

## **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 conducts Bridge Course for freshers, duration of Bridge course for I year is from 15 to 30, July 2015.

#### **Bridge course experts:**

- Dr.M.A. Neelakantan, HOD/ Science & Humanities Dept.
- Dr.D.Ravindran Prof./MECH
- Dr.A.Shenbagavalli Prof & Head/ECE
- Dr.M.RavindranAsso.Prof/EEE
- Dr.V.GomathiAsso.Prof (SG)/CSE
- Dr.K.MohaideenPitchaiAsso.Prof/CSE
- Dr.B.SankaraGomathi Prof & Head/EIE
- Dr.C.Puthiyasekar Prof & Head/CIVIL
- Dr.D.Manimegalai Prof & Head/IT
- Ms.V.Vimala AP(SG)/CSE

#### **Orientation program for freshers:**

- Orientation program for first B.E/B.Tech students by Mr.JeyaPrakash.A .Gandhi, Educational Analyst & Career Consultant on 30.10.14
- One day orientation programme for all First year B.E/B.Tech students by Mr.Somavalliappan, Educationist,Chennai on 26.11.14.
- Orientation program for first B.E/B.Tech students by Mr.JeyaPrakash.A .Gandhi, Educational Analyst & Career Consultant on 4.11.15
- Orientation program for first B.E/B.Tech students by Mr.ArunC.Bharath IRS, Commissioner, Income Tax Dept., Chennai and Dr.V.Veerappan Co-Founder and Director,Tessolve Services Pvt. Ltd, Bangalore on 31.07.15.
- Faculty members of our institution conduct the ProgrammeUnnaiArindal (Motivational Programme) by Ms.S.D.Selvasundari immediately after the students joined the college on 15.09.15.
- Expert members of Cambridge English Assessment Department, Cambridge University, conducts “BEC, Awareness programme” for first year students.

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

- The admission is primarily based on marks obtained in the 12<sup>th</sup> standard examinations. The students admitted are from different socio-economic backgrounds. Hence, their exposure levels are different. During the conduct of classes, exposure levels of the students are identified based on their performance in the class by the faculty members and suitable programmes are conducted for the needy students.
- For the benefit of students who come from Tamil medium of study, English Language Improvement programme is organized throughout the semester. Computer programming classes, communication skill development classes are also conducted.
- A mentor is allocated for a batch of 20 students in each programme to monitor and counsel the students’ with regards to their progress in academic as well as extra-curricular activities. This mentoring system especially adapted to have a special attention towards the performance improvement of weaker students.
- Special Maths classes for lateral entry students are arranged in view of developing their problem solving ability as like regular students.
- Special evening classes after the college hour are conducted especially to take care of weaker students.

**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?**

- **Bridge course-** Bridge courses are being conducted for 15 days at the beginning of the semester by the faculty members.
- **Add-on-courses-**The institution organizes one day Orientation programme for Communication for all First year B.E/B.Tech students by Ms.M.SundaraKamalam on August 10,2015.

**BRIDGE COURSE TIME TABLE – 2015-2016**

**SECTION A (MECH)**

	09.30-10.30	10.30-11.30	11.30-11.45	11.45-12.45	12.45-01.45	01.45-02.45	02.45-03.45	03.45-04.00	4.00-05.00
<b>MON</b>	ENG	MATHS	<b>INTERVAL</b>	COMP LAB (GSS)	<b>LUNCH BREAK</b>	PHY	EG	<b>INTERVAL</b>	CHEM
<b>TUE</b>	MATHS	COMP LAB (IMS)		ENG		ENG	CHEM		MATHS
<b>WED</b>	EG	PHY		MATHS		I.E	ENG		COMP LAB (KRK)
<b>THU</b>	PHY	CHEM		EG		ENG	MATHS		ENG
<b>FRI</b>	COMP LAB (VSK)	CHEM		EG		MATHS	PHY		ENG

**SECTION B (ECE)**

	09.30-10.30	10.30-11.30	11.30-11.45	11.45-12.45	12.45-01.45	01.45-02.45	02.45-03.45	03.45-04.00	4.00-05.00
<b>MON</b>	ENG	COMP LAB (MSB)	<b>INTERVAL</b>	MATHS	<b>LUNCH BREAK</b>	EG	MATHS	<b>INTERVAL</b>	COMP LAB (MSB)
<b>TUE</b>	PHY	CHEM		ENG		MATHS	I.E		CHEM
<b>WED</b>	MATHS	EG		PHY		EG	ENG		EG
<b>THU</b>	CHEM	ENG		MATHS		PHY	COMP LAB (VSL)		ENG
<b>FRI</b>	EG	COMP LAB (VJB)		CHEM		ENG	MATHS		COMP LAB (VJB)

**SECTION C (EEE)**

	09.30-10.30	10.30-11.30	11.30-11.45	11.45-12.45	12.45-01.45	01.45-02.45	02.45-03.45	03.45-04.00	4.00-05.00
<b>MON</b>	MATHS	CHEM	<b>INTERVAL</b>	I.E	<b>LUNCH BREAK</b>	ENG	COMP LAB (SI)	<b>INTERVAL</b>	MATHS
<b>TUE</b>	EG	MATHS		ENG		COMP LAB(VSL)	EG		CHEM
<b>WED</b>	COMP LAB (GRH)	ENG		PHY		EG	MATHS		PHY
<b>THU</b>	ENG	EG		MATHS		CHEM	PHY		ENG
<b>FRI</b>	CHEM	ENG		MATHS		PHY	COMP LAB (CUR)		ENG

**SECTION D (CSE)**

	09.30-10.30	10.30-11.30	11.30-11.45	11.45-12.45	12.45-01.45	01.45-02.45	02.45-03.45	03.45-04.00	4.00-05.00
<b>MON</b>	EG	PHY	<b>INTERVAL</b>	CHEM	<b>LUNCH BREAK</b>	MATHS	ENG	<b>INTERVAL</b>	COMP LAB(SAP)
<b>TUE</b>	MATHS	ENG		COMP LAB (VSK)		CHEM	ENG		MATHS
<b>WED</b>	PHY	CHEM		EG		MATHS	PHY		EG
<b>THU</b>	ENG	COMP LAB (IMS)		MATHS		CHEM	ENG		COMP LAB (VJB)
<b>FRI</b>	I.E	EG		ENG		PHY	ENG		MATHS

**SECTION E (EIE & IT)**

	09.30-10.30	10.30-11.30	11.30-11.45	11.45-12.45	12.45-01.45	01.45-02.45	02.45-03.45	03.45-04.00	4.00-05.00
<b>MON</b>	EG	MATHS	<b>INTERVAL</b>	PHY	<b>LUNCH BREAK</b>	COMP LAB (KRR)	ENG	<b>INTERVAL</b>	CHEM
<b>TUE</b>	MATHS	ENG		CHEM		PHY	MATHS		PHY
<b>WED</b>	ENG	IE		COMP LAB (GSS)		MATHS	EG		ENG
<b>THU</b>	CHEM	ENG		EG		COMP LAB (CUR)	ENG		MATHS
<b>FRI</b>	PHY	EG		MATHS		ENG	CHEM		COMP LAB (VSK)

**SECTION F (CIVIL & IT)**

	09.30-10.30	10.30-11.30	11.30-11.45	11.45-12.45	12.45-01.45	01.45-02.45	02.45-03.45	03.45-04.00	4.00-05.00
<b>MON</b>	COMP LAB (SIM)	EG	<b>INTERVAL</b>	ENG	<b>LUNCH BREAK</b>	ENG	MATHS	<b>INTERVAL</b>	EG
<b>TUE</b>	ENG	PHY		CHEM		MATHS	EG		ENG
<b>WED</b>	MATHS	COMP LAB (SI)		ENG		MATHS	CHEM		PHY
<b>THU</b>	COMP LAB (SIM)	IE		COMP LAB (VJB)		ENG	CHEM		MATHS
<b>FRI</b>	EG	ENG		PHY		CHEM	PHY		MATHS

**SECTION G**

	09.30-10.30	10.30-11.30	11.30-11.45	11.45-12.45	12.45-01.45	01.45-02.45	02.45-03.45	03.45-04.00	4.00-05.00
<b>MON</b>	PHY	CHEM	<b>INTERVAL</b>	ENG	<b>LUNCH BREAK</b>	MATHS	EG	<b>INTERVAL</b>	PHY/CHEM
<b>TUE</b>	COMP LAB (SI)	ENG		MATHS		PHY	CHEM		ENG
<b>WED</b>	EG	CHEM		ENG		COMP LAB (SIM)	MATHS		PHY
<b>THU</b>	ENG	MATHS		EG		ENG	EG		MATHS
<b>FRI</b>	CHEM	MATHS		PHY		COMP LAB (SAP)	ENG		IE

**SECTION H**

	09.30-10.30	10.30-11.30	11.30-11.45	11.45-12.45	12.45-01.45	01.45-02.45	02.45-03.45	03.45-04.00	4.00-05.00
<b>MON</b>	CHEM	PHY	<b>INTERVAL</b>	IE	<b>LUNCH BREAK</b>	MATHS	CHEM/PHY	<b>INTERVAL</b>	EG
<b>TUE</b>	ENG	CHEM		PHY		MATHS	COMP LAB (SAP)		ENG
<b>WED</b>	EG	MATHS		CHEM		EG	COMP LAB (VJB)		ENG
<b>THU</b>	MATHS	ENG		EG		PHY	ENG		MATHS
<b>FRI</b>	PHY	ENG		COMP LAB (IMS)		ENG	MATHS		CHEM

**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 handicapped and slow learners etc.? If yes, give details on how the study has helped the College to improve the performance of these students.**

- The performance of the students in the continuous assessment tests and in the end-semester examinations are the indicators
- The important observation is that language is the main barrier.
- Soft skills development programmes are organized to upgrade the students' level.
- The economically disadvantaged students could not buy laptops and high priced books. However, the government provides free laptops to all the students and College library has book bank for the disadvantaged sections of society.
- For some students, bridge courses are conducted to fill the gap.

**The slow learners are provided additional help by-**

- Motivating and encouraging them.
- Taking special care to clarify the doubts
- Arranging communication with advanced learners
- Remedial classes

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

In general, the students who have secured high marks only will get admission to National Engineering College. Therefore, it is very difficult to identify the advanced learners based on their qualifying marks. However, the marks obtained by the students in the first two semesters are the basis for the identification of advanced learners. Nevertheless, the participation in classroom discussion, performance in the assessment tests, performance during the oral examination, participation in classroom seminars, and questioning ability are the other tools available for the identification of advanced learners. The informal interactions with students by the faculty also help to identify the talented students. The learning needs of the advanced learners are addressed based on the following methodologies.

- Advanced learners are encouraged to lead the students' technical association team which organizes national level students symposium.
- These students are guided to present papers in seminar and to participate in competitions organized by other colleges. These students are guided to write various competitive examinations and motivated to participate in extracurricular activities. They are also involved in peer mentoring

activities. The advanced learners are encouraged take up industry defined projects.

- The incubation centre was established in association with Sum2 Solutions, Madurai in view of developing entrepreneurs. The interested advanced learners are allowed to get training with the concern during the college working hours (Last two hours).

#### **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 College has great concern for differently-abled students. Ramp facility is provided in all the departments for those students. The entire class has been shifted to ground floor to take care of the differently-abled students.

### **2.3 Teaching-Learning Process**

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

- A separate committee is formed to prepare the bulletin. This contains the following details:
  1. Assessment Schedule
  2. Academic events
  3. Sports Schedule
  4. List of Holidays
  5. Contact numbers of important officers.
  6. Rules and regulations
  7. Vision and Mission
  8. List of Departments
  9. Fee details
  10. Calendar of Events.
  11. Notice on Ragging
- The plan for teaching is organized properly in the beginning of every semester and it starts from the department level. The concerned Head of the Department conducts meeting with all the faculty members and allots subjects based on their interest. Then the time table is prepared and circulated to the students. The faculty members are provided with attendance book and this also contains the teaching plan to be filled by the faculty member.
- The student evaluation of the teachers is a regular feature and at the end of the semester, students have to submit their feedback.
- The evaluation methods are communicated to the students in advance during the first class committee meeting. In this meeting, assessment

question papers and practical examination patterns are discussed at length and finalized.

**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?**

The description of the syllabus for each subject contains course outline and course schedule.

- The College provides copies of the curriculum and syllabus to all the students
- The implementation of the process is discussed in the class committee meetings and the effectiveness of the process is ensured.

**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?**

- The lecture method is predominantly used in all courses, providing sufficient time for interaction. However, there is provision for the use of audio-visual aids.
- In addition to classroom interactions, following are the other methods of learning experiences provided to the students:
  - ✓ Seminars/ workshops
  - ✓ Presentations/ Group discussions
  - ✓ Project work
  - ✓ Field work / Industrial visit
- The flipped classroom technique is in progress by which the short video lectures viewed by students at home before the class session, while in-class time is devoted to exercises, projects and discussions.
- Other interactive learning techniques are,
  - ✓ Student seminars
  - ✓ Group discussions
  - ✓ Role play
  - ✓ Product Launch
  - ✓ Scrables
  - ✓ Debate
  - ✓ Ideal Activity
  - ✓ News Room Discussion
- NPTEL videos and virtual laboratories are utilized for demonstration.
- Knowledge sharing by industrial experts with students in the form of guest lectures and practical demonstrations are arranged.
- Student internship training and hands on training are implemented.

**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 learning is made student-centric by the following methods:

- Students are allowed to bring laptop and are connected to open Wi-Fi access to inculcate interactive learning
- Advance information about topics to be taught in the next class so that the students can come prepared for active discussion with teachers.
- Student seminars, group discussions, institutional visits and field trips.
- Library, internet facility and language lab for value addition.
- Availability of learning resources (CDs and DVDs). All the above enable the students to acquire competency in various subjects on their own.

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

Our distinguished alumnus and eminent experts of National / International repute are invited from academia / organization industries for seminar, workshop, conferences etc. A formal letter is sent to the delegates by the principal. The experts shared their knowledge to the students either by online/offline.

**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.**

Efforts are made to maximize the use of such aids to improve the learning experience by the following means:

- Computers with internet facility in all departments
- Use of multi-media projectors, overhead projectors and epediascope.
- Online spoken tutorial project by IITB, Mumbai for the certification courses like Linux, Ubuntu, Java, C/C++, etc.
- E-Yantra lab facility
- Open Source Lab
- Use of power point presentation
- Language laboratory
- NPTEL Videos
- Virtual lab

**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 Tutorial System takes care of these aspects**

**Academic:** Slow learners are identified and are given special care. Advanced learn as are directed to the library.

**Personal:** Some of the rural students lacking confidence, having inferiority complex are dealt with and confidence is infused .They are made to walk along with the rest of the students to build up the zeal.

**Psycho-social:**

Students with Tamil medium background are advised to work in the Language Lab after college hours. Needy students are given financial assistance.

**Tutor:** For individual faculty 20 students have been allotted, who are responsible for each of the activities carried out by the student. One tutor hour per week for the students; three tutor meetings are conducted by the principal every semester.

**Counseling to Students:** A professional counselor visits our college to counsel our students periodically for solving their social related issues.

**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?**

The dedicated faculty members of the college aim to deliver their lectures in an effective manner to enrich the knowledge of the students community. They continuously do research to evolve innovative teaching methodologies. Some of the innovative teaching methodologies adopted are:

- Development of smart class rooms, which are provided with LCD and Text projector. The teacher can utilize these facilities to illustrate the concept clearly through audio/video mode.
- The teachers circulate tutorial problems, assignments, lecture notes and other relevant materials to the students by online.
- Formation of different groups among the students and encouraging peer learning, which help the students who are academically less performing.
- The students are given many tasks such as group assignment completion, problem solving and mini projects. These activities help the students to learn on their own about the developments which are occurred in their field of study.
- E-learning by NPTEL videos and virtual laboratories are arranged.

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

- The institution motivates students to carry out live projects. To sharpen the critical thinking among students, various group discussions, debates, exhibition, seminars, workshops are organized in which students explore new ideas. To transform them into lifelong learners & innovators students are encouraged to take initiative during vacations. They are induced to solve case studies and present their analysis. The institution always steps ahead in encouraging the students in inculcation of new technology and innovations as per the market demands.
- In addition, an Entrepreneurship Development Cell (EDC) is established to nurture and bring out the innovative projects by students with creative ideas.

### **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**

The college considers student projects as mandatory in the learning process for all programmes. The UG students do their project in the final semester of the programme whereas PG students in their pre-final and final semesters. About 90% of the total projects are carried out within the college

### **Names of external institutions associated with the College for student project work**

The students of M.C.A are permitted to do their projects in external organisation such as

1. Tata Consultancy Service
2. HCL Technologies
3. Sony
4. Bizplus
5. Polaris
6. CBytt
7. Sum2 solutions (Incubation Centre-CSE)

### **Role of the faculty in facilitating such projects**

- The faculty member acts as a supervisor to monitor the project work.
- The necessary facilities required will be arranged by the department.
- The committee consisting of faculty members will review the projects periodically and help the students to proceed in the proper direction.

### **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?**

- The students and faculty keep pace with the recent developments through

internet, books and journals.

- The college has departmental libraries in addition to the main/ central library for the benefit of the faculty and students, which have a comprehensive collection of books and journals. Each department has a computer center with internet facility.
- In general, the faculty members are well-versed with computer aided teaching.
- The Wi-Fi enabled smart class rooms supplement the computer aided teaching.
- Online teaching and learning process is adopted through Wi-Fi enabled campus.
- Course material circulation and assignment submission & evaluation are through online.

**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 college has a well-structured online student feedback system to evaluate the performance of teachers.

- At the end of the semester, a centralized online student feedback system is employed to get the feedback of students about the individual faculty in different criteria.
- The students feedback is also consider as one of the evaluation criteria in Staff appraisal system in view of self evaluation of faculties and guiding them in a proper way.
- Senior faculty members and the Heads of the departments insisted the need and the usefulness of student assessment and feedback system to the other members of the departments.
- If required, the faculty members are encouraged to attend faculty development programmes in the relevant subject.
- Exit survey is practiced for the further development of respective programme and quality of the faculties.

**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.**

Yes. Sometimes, due to the inclusion of co- and extra-curricular activities, sports activities, etc., in the curriculum is delayed the completion of curriculum within the planned time span. This issue may handled by providing few extra classes to the students.

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

- Library is enabled with wi-fi technology and security systems with Closed Circuit Television System (CCTV) have been monitoring the movements of the students
- An e - Library is equipped with the 2 mbps broad band Internet, 20 mbps leased Line connectivity and 2 mbps wireless (RF) connectivity for the users.
- Open Access System is being followed in the Central Library and all the documents are in barcode.
- In addition to the well stocked-Library, each department of NEC has its own departmental Library to facilitate easy access to the faculty, students and research scholars.
- Effective book bank scheme for the SC/ST post metrics Scholarship students.
  - Separate issue for SC/ST post metrics Scholarship students
  - Keeping the books for maximum of one semester
  - Maximum issue 06 Text books

#### **Our Value Added Services**

To meet the contemporary needs of the users, the following value added services are offered:

1. Circulation Services
2. Web OPAC
3. Reservation Services
4. Inter Library Loan
5. Internet Services
6. Reference Services
7. Reprography Services
8. e-Library
9. Online e-journals
10. Open Source Resources
11. Question bank

### **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.**

**a) Quality of Teaching:** It is monitored through feedback from the students every semester. The Principal and HOD go on rounds and randomly choose a class to monitor the teaching methodology by attending the class. Teaching methods are discussed at department meetings. The methods vis a vis certain units are evaluated at department meetings.

**b) Teaching Methods:** Training programmes are organized for effective communication skills. Resource persons are called to reorient the staff to new teaching methods.

c) **Classroom environment:** Well-suited ambience for learning. Learning activities and a variety of teaching methodology invigorate the class room environment. is made lively by giving important to teacher-student interaction and peer-group interaction.

## 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 strength of the college is basically determined based on the quality of faculty members available. The College plans meticulously to meet the changing requirements of the curriculum. The faculty members are constantly encouraged to attend international conferences and training programmes.
- They are motivated to attend faculty development programmes and summer/winter Schools to develop their knowledge in the subject of interest.

Department	No. of Teaching Staff
Mechanical (Including Dean (Academic))	31
ECE	32
CSE	38
EEE	31
EIE	16
CIVIL	12
IT (Including COE& Dean (TCP))	17
Science & Humanities	39
<b>Total</b>	<b>216</b>

- There are no Faculties from other states

Department	Professor	Associate Professor	Assistant Professor	Total
MECH	4	3	24	31
ECE	2	3	27	32
CSE	3	1	34	38
EEE	2	5	24	31
EIE	1	5	10	16
IT	3	1	13	17
CIVIL	1	-	11	12
S&H	2	4	33	39

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

Recruitment of teaching, non-teaching & technical staff is done as per the applicable regulatory norms of state government. The selection committee for appointing the faculty consists of the following members:

- The Nominee of the Management

- The Principal
- Heads of Departments
- Two professors from respective fields as experts nominated by the Principal
- The selection process is as follows:
  - ✓ Advertisement of faculty vacancy in regional Website and Newspaper
  - ✓ Receives applications through online
  - ✓ Applicants' resumes are screened
  - ✓ Technical & personal interview of the candidates by the selection committee.
  - ✓ Recommendations of selection committee.
  - ✓ Selection of apt candidates & issue of appointment letters.

#### 2.4.3 Furnish details of the faculty

Department	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
MECH	4	-	3	-	24	-	31
ECE	-	2	2	1	16	11	32
CSE	1	2	1	0	09	25	38
EEE	2	-	3	2	16	08	31
EIE	-	1	4	1	04	06	16
IT	2	1	1	-	09	04	17
CIVIL	1	-	-	-	03	08	12
S&H	2	-	3	1	15	18	39

- The highest qualification for Professors and Associate Professor is Ph.D
- The highest qualification for Assistant Professor is M.E, M.Tech

#### 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?

Sl.No	Category	No. of Faculty
1.	Engineering Colleges	Not applicable
2.	Science and Humanities	2

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

Department	% of faculty who are product of the same College	% of faculty from other Colleges within the State	% of faculty from other States	% of faculty from abroad
MECH	29%	71%	-	-
ECE	24.2%	75.8%	-	-

Department	% of faculty who are product of the same College	% of faculty from other Colleges within the State	% of faculty from other States	% of faculty from abroad
CSE	33.3%	66.7%	-	-
EEE	51.6%	48.4%	-	-
EIE	37.5%	62.5%	-	-
IT	58.8%	41.2%	-	-
S&H	-	100%	-	-
CIVIL	-	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 required number of qualified and competent faculties to handle all the courses for all departments.
- The college recruits faculty members strictly following AICTE and UGC norms. The advertisements are published in leading dailies. The entire details about the recruitment will be clearly given in the advertisement. Based on the qualifications, the initial screening will be done. At Assistant Professor level recruitment, the second screening is done based on presentation followed by personal interview. Associate Professor and Professor level recruitment is carried out as for Assistant professor. The committee, consisting of top university officials and subject experts assess the performance of the candidates.

Academic Year	Staff Intake through Board
2014-2015	37
2013-2014	21
2012-2013	47
2011-2012	33

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

Nil

**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.)**

- The faculty members are allowed to acquire higher qualifications.
- The college permits the faculty members to participate in national/international conferences/seminars. In the past 5 years many

Faculty members were encouraged to participate in International Conferences held abroad.

- The faculty members are encouraged to organize national/international conferences and the university supports to the maximum extent possible.

**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.**

Sl.No	Name	Awards Received
1.	Dr.B.Sankaragomathi	✓ Best Faculty Award - Nehru Groups ✓ Periyar Award - ISTE
2.	Dr.B.Paramasivan	✓ IEEE Senior Membership Award
3.	Dr.P.Subburaj	✓ Life Time Achievement Award - ISTE

**2.4.10 Provide the number of faculty who have undergone staff development programmes during the last four years. (Add any other programme if necessary)**

Sl.No.	Academic Staff Development Programmes	Number of faculty
1.	Refresher Courses	103
2.	HRD Programmes	26
3.	Orientation Programmes	37
4.	Staff training conducted by college	127
5.	Staff training conducted by universities/other colleges	102
6.	Summer/Winter schools, Workshops	148
7.	Any other	36

**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

Name of the Department	Faculties invited as resource person in workshops/seminars/conferences (in %)	Faculties participated in external workshops/seminars/conferences (in %)	faculties presented papers in seminars/conferences (in %)	Faculties teaching experience in other Colleges (in %)	Faculties industrial Engagement (in %)	Faculties international experience in teaching (in %)
MECH	13%	30%	15%	25%	24%	-
ECE	35.29%	97.06%	67.64%	41.18%	35.29%	-
CSE	20%	100%	75%	30%	10%	-
EEE	23%	100%	10%	36%	10%	-
EIE	30%	100%	80%	30%	-	-
IT	52.94%	100%	100%	47.05%	17.64%	5.88%
CIVIL	-	33.33%	-	-	25%	-
S & H	2.85%	26.33%	16.15%	35.55%	-	-

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

The college organizes the Faculty Develop Programme a minimum of two in a year on various subjects including teaching methodology.

- In the past 5 years, many FDPs were conducted for the benefit of faculty to enhance the teaching quality and hence enrich the teaching – learning process.
- Faculty members were also encouraged to participate in conferences, seminars and workshops conducted by other colleges.

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

The various teaching-learning methods are as follows:

- Lecture method
- Interactive method – Smart class, OHP, LCD
- Experimental learning (through practicals)
- Seminars/ workshops
- Assignments/ group discussions
- Project work/ field trip

Innovative pedagogical practices of individual members are shared with other members of the department. This spurs others into a healthy competition to develop novel classroom strategies.

**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?**

No

**2.5 Evaluation Process and Reforms**

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

The regulations, curricula and syllabi of all the programmes are available in the college website. The regulations contain the various methodologies adopted for evaluation of continuous assessment of theory and practical/project work/industrial training. Further, the office of the Controller of Examinations has prepared an academic calendar which contains the various events such as conduct of class committee meeting, unit tests and end semester theory and practical examinations. The academic calendar is also available in college website.

**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?**

- A candidate can apply for revaluation of end semester examination answer paper in a theory course, within 2 weeks from the declaration of results, through proper application to the Controller of Examinations.
- A candidate can apply for
  - i. Revaluation of answer scripts for not exceeding 5 subjects at a time.
  - ii. Xerox copy of the answer scripts
- The revaluation results will be intimated to the candidate concerned through the Head of the Department. Revaluation is not permitted for practical courses, seminars, practical training and for project work.
- Due to this transparent scheme of revaluation, the students get clarified about the marks awarded in the first valuation. This will create a positive impact among the students on our evaluation system.

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

The continuous assessments of students are planned before the commencement of the academic year. It was informed to the students at the beginning of the semester, so that students can prepare for continuous assessment. For evaluation of continuous assessment, the class committee

meeting decides the various methods for each subject in constitution with student and staff concerned and it was implemented. Continuous assessments results are sent to parents periodically.

**2.5.4. What percentage of marks is earmarked for continuous internal assessment? Indicate the mechanisms strategized to ensure rigour of the internal assessment process?**

- Each course, both theory and practical (other than project work) shall be evaluated for a maximum of 100 marks. The project work shall be evaluated for a maximum of 200 marks.
- For evaluating theory, unit tests and OBE Assessments will be carried out and for evaluating practical model lab and viva-voce will be carried out.
- For R2011, R2013 all theory and practical courses other than project work, the continuous unit tests (for each course outcome) shall carry **30 and 40** marks respectively while the end semester examination shall carry **70 and 60** marks for theory and practical respectively.
- For R2015 all theory and practical courses other than project work, the continuous unit test shall carry 40 and 50 marks respectively. While the end semester examination shall carry 60 and 50 marks for theory and practical respectively.
- For project work, the continuous internal assessment shall carry **80** marks while the end semester examinations shall carry **120** marks.
- Unit tests for individual course outcomes carrying 100 marks each shall be conducted during the semester by the Staff / Department concerned. Further, OBE assessment evaluation shall be carried out for individual unit and converted into a total of 100 marks. The total marks obtained in all the unit tests and OBE evaluation are put together, out of 600 shall be proportionately reduced to 25 marks and rounded to the nearest integer (This also implies equal weightage to all the unit tests).

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

Yes

**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.**

- The college did not face any major delay in publishing the results.
- The end semester examinations, the results are declared within 15 days after the last examination.
- End semester examination results are published in the college website, department notice board and it was sent to parents through SMS on the same day.

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

- \* **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 through ERP, OMR based exam result, auto processing, generic result processing and certification.**

Yes. The office of the Controller of Examinations (CoE) is in-charge of the entire examination process.

**Pre – Examination process:**

The Pre-Examination process comprises various elements including Student and Faculty involvement. The process starts with gathering the required information in the Proforma by the CoE. The list of components for the smooth conduct of the examinations is given below.

1	Preparation of Academic calendar and sent to all the departments
2	Preparation of application for examinations and sent to all the departments
3	Received the questions from the panels of question paper setters and scrutinized by expert teams
4	Preparation of hall tickets and sent to the concerned departments
5	Preparation of panel of examiners for practical courses
6	Appoint a vigilance squad for monitoring theory and practical examinations
7	Conduct of practical examinations
8	Appoint a Chief Superintendent for coordinating theory examinations through Principal

**Post Examination Process**

The following work components are carried out after the examinations.

1	Preparation of panel of examiners for valuation
2	Allotment of dummy numbers for answer scripts
3	Conduct of central valuation
4	Verification of internal and external marks and preparing grading statistics
5	Conduct result pass board meeting and publish results
6	Conduct of revaluation and publish results
7	Print and issue of grade sheets

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

In our research centre, from this academic year (2015-16), Ph.D scholars are directed to present their research work progress in front of the expert panel which comprises of The Principal, Dean (R & D), Head and Senior Professors of the respective department.

**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 office of the Controller of Examination has been revamped to cope up with the increased load and to work efficiently. There is a separate section which deals with the examination process and an exclusive computer section with ERP software to handle registration, results and marksheet.

The following efforts were made in the office of the CoE for smooth conduct of the examination and related processes.

- Preparing Academic calendar with the schedule of Internal assessment test and end semester examinations for both theory and laboratory courses.
- For end semester examinations a separate chief superintendent is appointed by the principal for smooth conducting theory examinations
- A separate vigilance squad is appointed by COE to monitor the conduct of theory and practical examinations.
- Disbursal of necessary materials to the external /internal examiners through the Administrative office of the college.
- Preparing a)The attendance sheet b)Invigilator schedule d)Physical arrangements and related matters
- The Schedule of Examinations and Academic calendar and other information related to the conduct of examinations are published in the college website.
- Conduct of question paper scrutiny meeting, Result passing Board meeting with university representatives periodically.
- Maintaining the data base of students by sophisticated ERP software packages.

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

In the case of any grievance by the student, for internal assessment, he/she may contact the staff concerned. For end semester examinations the student may submit an application duly forwarded by the HOD and office of COE.

**Internal Assessment :**

For Unit Tests, all the written work is corrected and returned to the student. All grievances regarding evaluation, including the unit tests marks awarded for the students, are redressed by the examination cell and the various Heads of Departments. If there is any clarification the student can approach the

concerned faculty. If a grievance cannot be addressed by the course faculty, the student has the option to take it up with the Head of the Department to get an explanation for the marks or weightage given.

**End Semester Examination:**

If the grievance is against the End semester examination results, the institution assists the students by helping them to apply for xerox copy of the answer script to the office of the Controller of Examination. If he/she is not satisfying the evaluation, he./she may apply for reevaluation. Also without getting xerox copy of the answer script he/she may apply directly for reevaluation. Within 7 days of the announcement of the results, students can apply for reevaluation.

**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, each program has its generic learning outcomes and one or two programme specific learning outcomes. These outcomes are derived from the graduate attributes of undergraduate engineering. These are disseminated to all stakeholders by publishing them in websites, bulletin, display boards etc.

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

To facilitate the achievement of the intended learning outcomes, the strategies of teaching, learning & assessment of the institute are through:

- Faculty improvement program
- CCE-continuous and comprehensive evaluation of students by the class Coordinators
- Theory, projects, assignments & practical's for effective learning
- SMS facility in order to intimate the parents about students' attendance and academic status
- Conducting regular unit tests /preparatory exams.
- Conducting mentoring classes for slow learners.
- The flipped classroom technique is used for interactive learning.
- Student seminars, group discussions, role play and other few techniques are encouraged for interactive learning.
- NPTEL videos and virtual laboratories are utilized for demonstration.
- Value added courses for entrepreneurship development.
- Course outcomes are evaluated by using OBE software for measuring the attainment.
- Course end survey was collected at the end of each course, and its analysis was included in each course outcome.

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

Graduate exit survey / students' feedback

Alumini survey

Employer Survey

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

**UG – Degree (B.E/B.Tech)**

<b>Year</b>	<b>No. of students appeared</b>	<b>No. of Students passed</b>	<b>Percentage</b>
<b>2014-2015</b>	<b>721</b>	<b>641</b>	<b>88.9%</b>
<b>2013-2014</b>	<b>622</b>	<b>581</b>	<b>93.4%</b>
<b>2012-2013</b>	<b>581</b>	<b>558</b>	<b>96%</b>
<b>2011-2012</b>	<b>590</b>	<b>553</b>	<b>93.7%</b>

**PG – Degree (M.E/MC.A)**

<b>Year</b>	<b>No. of students appeared</b>	<b>No. of Students passed</b>	<b>Percentage</b>
<b>2014-2015</b>	<b>170</b>	<b>167</b>	<b>98.2%</b>
<b>2013-2014</b>	<b>189</b>	<b>188</b>	<b>99.5%</b>
<b>2012-2013</b>	<b>186</b>	<b>167</b>	<b>89.8%</b>
<b>2011-2012</b>	<b>152</b>	<b>149</b>	<b>98%</b>

### **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 have a research committee to monitor and address the issues of research.

#### **Composition of Research and Development Committee (2015-2016)**

Chief Patron : Dr.Kn.K.S.K. Chockalingam, Director

Patron : Dr.S.Shanmugavel, Principal

Secretary : Dr.M.A.Neelakantan, Dean (R&D)

Committee Members:

- |   |        |
|---|--------|
| • Dr.D.Manimegalai, HOD / IT              | Member |
| • Dr.K.Kalidasa Murugavel, HOD / Mech     | Member |
| • Dr.B.Paramasivan, HOD/CSE               | Member |
| • Dr.B.Sankaragomathi, HOD / EIE          | Member |
| • Dr.K.G.Srinivasagan, HOD / CSE-PG       | Member |
| • Dr.A.Shenbagavalli, HOD / ECE-UG        | Member |
| • Dr.S.Tamil Selvi, HOD / ECE-PG          | Member |
| • Dr.C.Puthiasekar, HOD / Civil           | Member |
| • Dr.M.Willjuice Iruthayarajan, HOD / EEE | Member |
| • Dr.V.Gomathi, Prof. /CSE                | Member |

#### **Recommendations:**

The research committee recommended the

- faculty to send proposal to funding agencies
- faculty to publish in referred journals
- Management to provide proper incentive for faculty members.

#### **Impact of the recommendations of research committee:**

- Due to encouragement and motivation from research committee, funded projects for more than 5.5 crores were sanctioned from various funding agencies such as BRNS,DST,DRDO,MNRE,AICTE etc., for the past five years (i.e.) after the committee formation.
- Also the publications by the faculties in national/international journals and conferences have improved.
- Incentives scheme has been introduced for faculty members for funded projects and research publications in journals with good impact factor.
- Prompts the faculty to interact with the industry for collaborative research projects.

- The number of faculty members registering for Ph.D has increased.
- 25 of our faculty members are recognized research supervisors of Anna University, Chennai.
- Increase in the number of research proposals to various funding agencies. Increase in the number of faculties completed Ph.D.

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

- Facilitating the faculty members to register for Ph.D., and to make all the faculties with Ph.D qualification.
- Periodically review the progress of sanctioned projects to ensure timely completion.
- To encourage faculty members to publish research findings in reputed referred journals.
- Every year a specific budget is allocated for improving the R&D infrastructure.
- During the last 4 years, for **R&D infrastructure** alone the **Management has contributed 90 Lakhs.**
- Incentives are provided for the research publications of the faculty members in reputed journals with impact factor  $\leq 0.5$ -Rs.2000/- , with impact factor  $>0.5$  &  $<1.5$ -Rs.5000/- and with  $>1.5$  Rs 10,000/-.
- For funded projects 50% Overhead charges to principal Investigator & Co-Investigator.

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

Sl. No.	Name	Designation	Department	Field of Specialization
1.	Dr.Kn.K.S.K.Chockalingam	Director	NEC	Material Engineering
2.	Dr.S.Shanmugavel	Principal	NEC	Communication, Networking
3.	Dr.M.A.Neelakantan	Prof. & HOD	S&H	Bio-inorganic chemistry and Environmental Science
4.	Dr.D.Ravindran	Prof.	Mech	Flow Shop Scheduling
5.	Dr.K.Manisekar	Prof.	CMS	Metal forming, Composites, Tribology
6.	Dr.D.Manimegalai	Prof. & HOD	IT	Digital Image Processing
7.	Dr.V.Seenivasagam	Prof.	NEC	Image Restoration
8.	Dr.K.Kalidasa Murugavel	Prof. & HOD	Mech	Solar Desalination

Sl. No.	Name	Designation	Department	Field of Specialization
9.	Dr.P.Subburaj	Professor	NEC	Optimization of power system economics
10.	Dr.B.Paramasivan	Prof. & HOD	CSE	Wireless Networks
11.	Dr.S.Tamil Selvi	Prof. & HOD	ECE-PG	Wireless Communication, Speech Processing
12.	Dr.K.G.Srinivasagan	Prof. & HOD	CSE-PG	Image Processing
13.	Dr.H.Kanagasabapathy	Prof.	Mech	FEA of shells of composite materials
14.	Dr.T.Sakthi	Asst. Prof.	Academic	Marketing Management & Total quality Management
15.	Dr.B.Sankaragomathi	Prof. & HOD	EIE	Digital Image Processing
16.	Dr.S.S.Mariappan	Asso. Prof. (SG)	S&H	Coordination Chemistry
17.	Dr.R.Sundarraj	Asso. Prof	Humanities	Total Quality Management
18.	Dr.M.Willjuice Iruthayarajan	Prof. & HOD	EEE	Control system, evolutionary computation
19.	Dr.A.Shenbagavalli	Prof. & HOD	ECE-UG	Biomedical Imaging
20.	Dr.V.Gomathi	Prof.	CSE	Video Data Analysis
21.	Dr.V.Kalaivani	Prof.	CSE	Bioinformatics
22.	Dr.T.Vigraman	Asso. Prof.	Mech	Diffusion bonding of metals
23.	Dr.B.N.Prathibha	Asst. Prof.	CSE	Medical Image Processing
24.	Dr.C.Puthiyasekar	Prof. & HOD	Civil	Environmental Engineering
25.	Dr.M.A.Perumal	Asso. Prof.	S&H	Graph theory
26.	Dr.S.Sankar Ganesh	Asso. Prof.	IT	Content Based Image Retrieval
27.	Dr.L.Kalaivani	Asso. Prof	EEE	Electrical drives, control, soft computing, SRM
28.	Dr.S.Thalamuthu	Asst. Prof./Chem	S&H	Bioinorganic Chemistry
29.	Dr.D.Santhi	Asso.Prof	EIE	Medical Image processing and analysis
30.	Dr.M.Ravindran	Asso.Prof	EEE	Power system and Energy Engineering

Sl. No.	Name	Designation	Department	Field of Specialization
31.	Dr.R.V.Maheswari	Asso. Prof.	EEE	Partial discharge, Pattern Recognition, Transformers
32.	Dr.K.Mohaideen Pitchai	Asso. Prof.	CSE	Adhoc & Sensor Networks
33.	Dr.S.Manikandan	Asso. Prof.	EIE	Medical image analysis
34.	Dr.N.Lenin	Asst. Prof. (SG)	Mech	Single Row Facility Layout Problems
35.	Dr.R.Anitha	Asst. Prof./Phys.	S&H	Biophysics
36.	Dr.M.Kaliappan	Asst. Prof. (SG)	IT	Networking

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

The following are pro-active mechanisms adopted by the college to facilitate smooth implementation of research schemes/projects,

#### **Advancing Funds for sanctioned projects:**

Sponsored project fund amount is being deposited in the college account opened in the name of the project, operated by the Principal with the recommendation of the Principal Investigator of the concerned project. The principal investigator is given full freedom to utilize the amount for the successful completion of the project with the approval of the Principal. The principal investigator is also permitted to receive advance amount for preliminary works as soon as project sanction intimation letter is received.

#### **Autonomy to the principal investigator/coordinator for utilizing funds:**

The laboratory space, electricity facilities, furniture, office equipment etc., required for the smooth conduct of the research projects have been provided to the Principal investigator. The principal investigator is permitted to utilize any amount from the project account needed for meeting all the expenses for its successful completion.

#### **Timely release of grants:**

The project interim reports are sent to the sponsoring agency in the timely manner so as to prevent any difficulty in timely release of further grants.

#### **Timely auditing and submission of utilization certificate to the funding authorities:**

The accounts department of the college facilitates the up keeping of the records related to the project and prepares the various account statements and they are periodically audited by the college auditors. The proper utilization of funds under the different heads of the project will be certified by the college

auditor and will be submitted to the funding authorities after the completion of the project.

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

As far as the quality research in Engineering is concerned, it is necessary to inculcate the interdisciplinary activities in the curriculum itself. The institute is actively promoting interdisciplinary projects and students are constantly encouraged to take-up such projects. In this regard, the college offers interdisciplinary electives to students. Additionally, faculty members from various departments form research groups to work on interdisciplinary research projects.

#### **Between or among the departments of the college:**

- Interdisciplinary research among various departments is promoted through Research Committee and Research Advisory Committee.
- For example, a interdisciplinary research project is being done by the Departments of Electronics and Instrumentation Engineering and Information Technology funded by ICMR, New Delhi.
- Another interdisciplinary research project is being done by the Departments of Electronics and Instrumentation Engineering and Mechanical Engineering funded by MNRE, New Delhi.

#### **Collaboration with national/international institutes/industries:**

The Institute has collaboration with the following institutes of repute at both national and International level,

- Indira Gandhi Centre for Atomic Research, Kalpakkam(IGCAR)
- M/s Electro solutions Pvt., Ltd., Bangalore.
- M/s Beta Technologies, Coimbatore.
- M/s Edgate Technologies, University Partner of Texas Instruments, Bangalore
- Department of Chemistry, University of Pitesti, Romania.
- Department of Pharmacy, School of Health Sciences, Kwazulu Natal University, Durban, South Africa.
- Department of chemistry, Munich University, Germany.
- Vinca institute of Nuclear Science, Serbia.
- Anti-Cancer Drug Screening Facility (ACDSF)Tata Memorial Centre, Sector-22, Kharghar, Navi Mumbai.
- Sophisticated Test & Instrumentation Centre, Cochin University of Science and Technology (CUSAT), Cochin, Kerala.
- SAIF, Indian Institute of Technology-Bombay, Powai, Mumbai.
- Central Interdisciplinary Research Facility, Mahatma Gandhi Medical College & Research Institute Campus, Puducherry.
- Department of chemistry and centre for theoretical studies, Indian Institute of Technology, Kharagpur.

- Centre of Advanced study in crystallography and biophysics, University of madras, Chennai.
- Head, Radiopharmaceuticals Chemistry Section Isotope applications & Radiopharmaceuticals Divisio Bhabha Atomic Research Centre Trombay, Mumbai.
- CSIR-Central Electrochemical Research Institute Central Instrumentation Facility Karaikudi, Tamilnadu.
- Niva Engineering, Chennai.
- Apex Industries, Coimbatore.
- Sumtwo, Madurai
- IBM Centre of Excellence
- Iwave Technologies.
- Cisco Networking academy

Application oriented interdisciplinary research between institute and various industries is facilitated through the MoUs. The collaboration with industries are shown below.

- Adroit CAD Solutions Pvt.LTD, Chennai.
- Nest Industrial Academy, Chennai.
- Siemens India Technologies Pvt Ltd., Chennai
- Cisco Networking Academy, Coimbatore.
- Cadence Design systems Pvt. Ltd, Noida.
- W.S. test systems, Bangalore.
- Srissha Technologies Pvt. Ltd, Chennai.

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

- Every academic year National and International conferences are conducted in each departments and researchers from various fields visit the campus and interact with teachers and students through these conferences.
- Our faculty members directly visit the industries and interact with the eminent persons related to the funded projects.
- Faculty members are actively participating in seminars conducted in every odd Saturdays and researches from various institutions and industries interact with faculties.
- Senior researchers from reputed institution of higher education and R&D establishment are member in the Board of Studies (BOS) of every department.
- The college has invited eminent scientists to interact with students and faculties during national/international conferences.

**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?**

Reasonably good percentage of our faculty members have availed this leave to complete their Ph.D and P.G programme and for post doctoral work.

On return availing the leave the faculty member carried out good quality research and published in good journals.

They also guide R&D oriented U.G. and P.G. projects leading to products.

**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.**

S. No	Department	Name of the Conference	National/International	Resource Person
1.	ECE	Advances in Electronic Communication-2005 (18 <sup>th</sup> & 19 <sup>th</sup> April)	National	<ol style="list-style-type: none"> <li>Shri.V.Subramani, General Manager - Networking, Tata Teleservices, Chennai.</li> <li>Dr.L.R.Rajagopal, Chief Executive Officer, Sands Instrumentation Pvt. Ltd., Chennai.</li> <li>Dr.S.Emmanuel, Professor and Head, ECE,Vellore Institute of Technology.</li> </ol>
		Advances in Electronic Communication-2006 (6 <sup>th</sup> & 7 <sup>th</sup> April)	National	<ol style="list-style-type: none"> <li>Mr.P.H. Rao, senior scientist, Antenna Designs and Electro magnetics, SAMEER, Chennai.</li> </ol>
		Advances in Electronic Communication-2007 (February 1-3)	International	<ol style="list-style-type: none"> <li>Prof. Dr. Georg Boeck, Berlin University of Technology, Berlin.</li> <li>Shri. V.Muralidharan, Additional Director, CDAC, Trivandrum.</li> <li>Shri. V.Muralidharan, Additional Director, CDAC, Trivandrum.</li> <li>Prof. Dr. S.Salivahanan, SSN College of Engineering, Chennai</li> </ol>
		Advances in Electronic Communication-2009 (4 <sup>th</sup> April)	National	<ol style="list-style-type: none"> <li>Dr.R.Sukanesh, Professor, Thiagarajar College of Engineering, Madurai.</li> <li>Dr.S.Raghavan, Professor, National Institute of Technology, Tiruchirapalli.</li> </ol>
		Advances in Electronic Communication-2011 (1st & 2nd April)	National	<ol style="list-style-type: none"> <li>Dr.V.Lakshmi Prabha Government Collge of Engineering, Tirunelveli.</li> </ol>

S. No	Department	Name of the Conference	National/ International	Resource Person
		Advances in Electronic Communication-2012 (24th February)	National	1. Mr.S.Balachandran, SDE,MSC,CMTS,BSNL,Tirunelveli
		Advances in Electronic Communication-2013 (7th & 8th March)	National	1. Mr.T.Samuel Sundarraj Sargunar, Assistant Executive Engineer Tuticorin Thermal Power Station, Tuticorin 2. Dr. A.Suruliandi, Professor, Department of CSE, Manonmaniam Sundaranar University, Tirunelveli.
		ADvances in ELectronic COmmunications ADELCO' 14	National	1. Mr. Godwin Gnanaraj Deputy Director Doodarashan, Rameshwaram
		ADvances in ELectronic COmmunications ADELCO' 15	National	1. Mr.S.Velvasagam Divisional Engineer, BSNL, Kovilpatti
2.	CSE	National conference on Image Processing and Networking (NACIPAN' 11)	National	1. S.Muthusamy, Group Head Wipro Technologies,Chennai
		National conference on Image Processing and Networking(NACIPAN' 12)	National	1. G.Palani Sankar,Delivery Manager, Infosys Technologies,Chennai.
		National conference on Image Processing and Networking(NACIPAN' 13)	National	1. Mr. V.Manikanda Raman Performance Engineering Architect General Electric Company, Bangalore
		National conference on Image Processing and Networking(NACIPAN' 14)	National	1. Dr. T. Kalaiselvi, Assistant Professor, Gandhigram Rural Institute – Deemed University, Gandhigram - 624302, Dindigul

S. No	Department	Name of the Conference	National/ International	Resource Person
3	EIE	TNSCST Sponsored National Conference on “Recent Trends in Instrumentation Applications” (RETINA '04)	National Conference (23rd & 24th Dec 2004)	<ol style="list-style-type: none"> <li>1. Dr.M.Chidambaram, Professor, Department of Chemical Engineering, IIT Madras</li> <li>2. Dr.S.Baskar Professor, Dept. of EEE, TCE, Madurai</li> <li>3. Dr.S.Radhakrishnan Professor &amp; Head, Dept of CSE AKCE, Srivilliputhur</li> </ol>
		TNSCST Sponsored National Conference on “Recent Trends in Instrumentation Applications” (RETINA '05)	National Conference (21st & 22nd , Dec 2005)	<ol style="list-style-type: none"> <li>1. Dr.S.Baskar Professor, Dept. of EEE, TCE, Madurai</li> <li>2. Dr.P.Kanaga Sabapathi Dean, MIT Campus, Anna University, Chennai</li> <li>3. Dr.L.Ganesan Professor &amp; Head CSE Department, AC Engg. &amp; Tech, Karaikudi</li> <li>4. Dr.V.Subbiah Bharathi, Professor &amp; Head, Dept. of Computer Science and Engg. Eswari College of Engg., Chennai.</li> </ol>
		Recent Trends in Instrumentation Applications – RETINA '09	National Conference (19th & 20th, March 2009)	<ol style="list-style-type: none"> <li>1. Dr.N.Mathivanan, Director, University Science Instrumentation Centre Madurai Kamaraj University, Madurai</li> <li>2. Dr.T.K.Basak, Director(Research), Krishna Engineering College. Ghaziabad, Uttar Pradesh</li> <li>3. Dr.V.Subbiah Bharathi, Professor &amp; Dean (Academic), DMI College of Engineering, Chennai</li> <li>4. Prof.N.Mohan Kumar, Department of Instrumentation &amp; Control Engg., Government Polytechnic College, Ooty</li> </ol>
		Recent Trends in Instrumentation Applications – RETINA '15	National Conference (26th & 27th , Feb 2015)	<ol style="list-style-type: none"> <li>1. Dr. S. A. Pasupathy, M.E.,Ph.D. (UK) Professor, Kumaraguru College of Technology, Coimbatore</li> <li>2. Dr.V.Kalaivani, AP(SG), Department of Computer Science &amp; Engineering , NEC</li> </ol>
4	Mechanical	Mechmaze' 11	National conference	Mr.S.Kalyanaraman, HR Manager, Renault Nissan, Chennai

S. No	Department	Name of the Conference	National/ International	Resource Person
		MECHNA'12		Mr.C.S.Balaji, DGM, Suzlon Energy Limited, Madurai
		Recent Advances in Material Processing Technology(RAMP T'13) during January 7-9, 2013.	international conference January 7-9, 2013	<p>Foreign delegates:</p> <ol style="list-style-type: none"> <li>1. Dr. K. Kimura, Unit Director, Materials Reliability Unit, E&amp;EM Div., National Institute for Materials Science, Japan</li> <li>2. Prof. M. Selvaraj, School of Chemical and Biomolecular Engineering, Pusan National University Busan 609-735, Korea</li> <li>3. Prof. Takayuki Kitamura, Head, Dept. of Mechanical Engineering and Science, Kyoto University, Japan</li> <li>4. Prof. Devki N. Talwar, Prof. &amp; Chair, Department of Physics, Indiana University of Pennsylvania, Indiana, PA15705, USA</li> </ol> <p>Indian delegates:</p> <ol style="list-style-type: none"> <li>1. Dr.AK.Bhaduri, Associate Director, Materials Development &amp; Technology Group, IGCAR, Kalpakam, Chennai.</li> <li>2. Dr. P. Chellapandi, Director Nuclear &amp; Safety Engg. Group, IGCAR, Kalpakkam, Chennai.</li> <li>3. Dr. T. Jayakumar, Director-Metallurgy &amp; Materials Group, IGCAR, Kalpakkam, Chennai.</li> <li>4. Prof. Satish V. Kailas, Department of Mechanical Engineering &amp; Centre for Product Design and Manufacturing IISC, Bangalore</li> <li>5. Prof. M. Kamaraj, Head, Metallurgical &amp; Materials Engg., IITM, Chennai</li> <li>6. Prof. Kashyap S.C.Indian Institute of Technology Delhi HauzKhas, New Delhi-110016</li> <li>7. Prof. A. S. Khanna, Metallurgical Engg. &amp; MaterialsScience Dept., IIT, Powai, Mumbai.</li> <li>8. Prof.K.S.Pandey, Department of Metallurgical and Materials Engineering, National Institute of Technology, Thiruchirappalli.</li> <li>9. Prof.P.Shankar, Principal, Saveetha School of Engineering,</li> </ol>

S. No	Department	Name of the Conference	National/ International	Resource Person
				Saveetha University, Chennai. 10. Dr. P. V. SivaPrasad, General Manager R&D, Sandwik-Asia Ltd., Pune 11. Prof.Vakilsingh, Department of Metallurgical Engineering, Institute of Technology, Banaras Hindu University, Varanasi - 221005 12. Dr. S. Venugopal, Associate Director, Group for Remote Handling, Robotics, Irradiation Experiments &PIE(Grip), IGCAR, Kalpakkam, Chennai.
		MNRE sponsored Conference on Renewable and Green Energy Sources and Technologies (RGEST)	National	1. Dr. Ramasamy Ramaraj Professor, School of Chemistry, Director, Centre for Photo electrochemistry, Coordinator, Patent Facilitation Centre, Madurai Kamaraj University, Madurai
	1. Dr.V. Kirubakaran , Asst. Professor, Energy Centre, Gandhigram Rural University, Dindigul			
	1. Dr. R. Velraj, Director, AU-FRG Institute for CAD/CAM, Anna University, Chennai			
	1. Dr. G. Giridhar, Director, MNRE, Solar Radiation Resource Assessment Cell (SRRA), Centre For Wind Energy Technology, Chennai			
7.	IT	INSA sponsored International Conference ENIAC' 14	International	1. Dr. Kai Sang LOCK Adjunct Professor, Singapore University of Technology and Design President, PQR Technologies Pte Ltd Vice-President, ASEAN Academy of Engineering and Technology 2. Dr. Chandrasekar Dharuman Founder & CEO SriSeshaa Technologies Pvt Ltd, Chennai 3. Dr. K.Muneeswaran M.E.,Ph.D., Sr. Professor & HOD, Department of CSE, MEPCO Schlenk Engineering College, Sivakasi.
		ENIAC' 12	National 12.10.12	1. Dr.N. Raja Reader, School of Technology & Computer Science, Tata Institute of Fundamental Research, Mumbai. 2. Dr.V.Gomathi Associate Professor, CSE Dept, National Engg College 3. Dr.N.Shanthi Asst. Prof /ECE, National Engg college

S. No	Department	Name of the Conference	National/ International	Resource Person
		ENIAC'11	National (16.09.11)	<ol style="list-style-type: none"> <li>1. Dr.N. Raja Reader, School of Technology &amp; Computer Science, Tata Institute of Fundamental Research, Mumbai.</li> <li>2. Dr.N.Shanthi Asst. Prof /ECE, National Engg college.</li> <li>3. Dr.G.Uma Maheswari, Sr.Lect. /CSE, National Engg college.</li> </ol>
		ENIAC'10	National (08-04-10 & 09-04-10)	<ol style="list-style-type: none"> <li>1. Dr.T.Devi, Reader &amp; Head, School of Computer Science, Bharathiyar University, Coimbatore</li> <li>2. Dr.K.Ramar, Prof &amp; Head of CSE, National Engg College,</li> <li>3. Dr.B.Parama sivan, Prof.Dept of CSE Dr.S.Tamilselvi Prof. Dept of ECE</li> </ol>
		ENIAC'19	National (03-04-09 & 04-04-09)	<ol style="list-style-type: none"> <li>1. Dr. Elijah Blessing, Professor &amp; Head, Department of CSE, Karunya University, Coimbatore,</li> <li>2. Dr.Arivazhagan,Professor &amp; Head, Mepco Schlenk Engineering College, Sivakasi</li> </ol>

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

The research findings of the faculty members pursuing research in the campus are shared with the students through the seminars and conferences organized by the institution.

The institution organizes conferences in which the scholars from outside the institute participate and present their findings. These sessions are open to both the members of faculty and also to the students, thus providing an opportunity to get an exposure to the research finding of both the institution and outside the institution.

The outcomes of the research findings are also taken to the community.

A Incubation centre has been setup in the campus. This encourages multi disciplinary

research and takes initiatives in validating the research findings.

**Research projects useful to the society/ Community: (lab to land)**

**Department of ECE:**

- “Artificial Intelligence based computer aided detection for medical application” funded by IGCAR, Kalpakkam.
- “Fully Automated based coconut harvesting machine” funded DST.

**Department of Science and Humanities:**

- Anti-Cancer Drug Screening Facility (ACDSF) to Advanced Centre for Treatment, Research & Education in Cancer (ACTREC)
- Crystal growth and design collaborated with Department of chemistry, Munich University, Germany.

**Department of Mechanical:**

- Coconut de-huster and Tender coconut trimmer collaborated with Apex industries, Coimbatore.

**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.)**

S.No.	Name	Designation	Department
1.	Dr.Kn.K.S.K.Chockalingam	Director	NEC
2.	Dr.S.Shanmugavel	Principal	NEC
3.	Dr.V.Seenivasagam	Prof.	IT
4.	Dr.B.Paramasivan	Prof. & HOD	CSE
5.	Dr.V.Gomathi	Prof.	CSE
6.	Dr.V.Kalaivani	Prof.	CSE
7.	Dr.S.Tamil Selvi	Prof. & HOD	ECE-PG
8.	Dr.A.Shenbagavalli	Prof. & HOD	ECE
9	Dr.M.Willjuice Iruthayarajan	Prof. & HOD	EEE
10	Dr.P.Subburaj	Prof.	EEE
11	Dr.L.Kalaivani	Asso. Prof.	EEE
12	Dr.R.V.Maheswari	Asso.Prof.	EEE
13	Dr.B.Sankaragomathi	Prof. & HOD	EIE
14	Dr.D.Manimegalai	Prof. & HOD	IT
15	Dr.K.G.Srinivasagan	Prof. / IT Dean (TCP)	IT
16	Dr.K.Kalidasa Murugavel	Prof. & HOD	Mech
17	Dr.D.Ravindran	Prof.	Mech
18	Dr.K.Manisekar	Prof. /Mech Dean (Academic)	Mech
19	Dr.H.Kanagasabapathy	Prof.	Mech
20	Dr.T.Vigraman	Asso. Prof.	Mech
21	Dr.M.A.Neelakantan	Prof. & HOD	S&H
22	Dr.S.Thalamuthu	Asst.Prof/Chem	S&H
23	Dr.R.Anitha	Asst.Prof/Phy	S&H
24	Dr.M.Kaliappan	Asst.Prof(SG)	IT
25	Mr.T.Devakumar	Asst.Prof(SG)	ECE

### 3.2 Resource Mobilization for Research

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

Sl.No.	Department	Budget allocated(in lakhs)			
		2012-13	2013-14	2014-15	2015-16
1	Mechanical	2	2	2	7
2	CMS	2	2		
3	CES	1	13		
4	ECE	2	2	2	6
5	ECE(PG)	5	3		
6	CSE	2	2	1	1.5
7	CSE(PG)	4	5		
8	IT	1.5	2	2	1.5
9	EEE	2	2		5
10	E&I	1.5	1		1
11	S&H	1	1	1	0.5
<b>Total</b>		<b>24 lakhs</b>	<b>35 lakhs</b>	<b>8 lakhs</b>	<b>22.5 Lakhs</b>

#### Department of Information Technology:

Year	Budget Allotted	Items Purchased	Budget Spent
2012-2013:	Rs. 50,000/-	Intel core i5 Machine-3 Nos	Rs.97,500/-
2013-14	Rs.50,000/-	Lenova Laptop-2Nos	Rs.62,300/-
Year 2014-15:	Nil	Nil	Nil
Year 2015-16	Rs.1,50,000/-	Net Sim Software	1,68,548.00

#### Department of Mechanical Engineering:

Year	Items Purchased	Budget Spent
2013-14	1.Hydraulic Compression Moulding Machine. 2.Huff Furnace.	Rs.3,26,300/-
2014-15	1.Ultrasonic Probe Sonicator. 2.Impact Testing Machine. 3.Universal Tensile Tester.	Rs.1,83,300/- Rs.1,78,500/- Rs.4,29,200/-

#### Department of Science and Humanities:

S. No.	Year	Duration	Funding Agency	Total Fund (Rs)	Instrument Name	Fund Allocated for Instrument (Rs)	Status
1.	2007	3 Years	BRNS (DAE)	28,18,550	1. Fourier Transform Infrared Spectrophotometer	7,00,000	Completed
					2. High Performance Liquid Chromatography	12,00,000	

S. No.	Year	Duration	Funding Agency	Total Fund (Rs)	Instrument Name	Fund Allocated for Instrument (Rs)	Status
2.	2010	3 Years	DST	29,00,000	UV-Visible Spectrophotometer - 2450	9,50,000	Completed
3.	2013	3 Years	CSIR	11,45,000	-	-	Ongoing
4.	2014	3 Years	BRNS (DAE)	24,24,500	Spectrofluorometer (FP-8300)	10,00,000	Ongoing
5.	2015	3 Years	DST (SERB)	44,25,000	Spectroelectrochemical Workstation	12,53,000	Ongoing
6.	2015	2 Years	BRNS (DAE)	25,24,650	1. LED Fluorimeter 2. GPS 3. Radiation Survey Meter 4. Water Quality Sensor	10,70,000	Ongoing

- Other departments are purchasing systems and softwares for the research activities from the fund allotted for research from the institution.

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

- Tamilnadu science and Technology providing funding amount of Rs.10,000/- for UG Students and Rs.15,000/- for PG Students for student research projects

**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 institution to provide seed money to start up the research. Seed money is released faculty encourage research

Dr.K.Kalidasa Murugavel ,HOD, Department of mechanical engineering doing a funded project in the title “Experimental Study on Solar Steam Generation System with Compressed Water Thermal Energy Storage System” under DST/SERI with funding amount of Rs. 42,88,800. (with college contribution-13,41,500 and from DST-29,47,300/-)

**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, special efforts made by the college to encourage the faculties to file patents.

**Following activities are organized by institution for motivating the faculty members to file patents:**

- Three days National level Workshop on “ Formulation of Research and Development Grant Proposals by scientists and Technologies” Organized on 18<sup>th</sup> to 20<sup>th</sup> Nov 2015.
- Mr.K.Shankar, Asso.Prof E&I Department organized a One day workshop on “Intellectual Property Rights” to file patents.
- Mr.I.Sankar, Assistant Professor (S.G), Mechanical Engineering Department of our institution has filed a patent and details of the filed patents is given below,

#### Patent Details

Title: Heat Resisting Intermediate Panels for Cold Items Container– Produced through Charcoal waste of water treatment plant

Reference Number : E-2/4897/2014-CHE

Patent Application Number : 5533/CHE/2014

Provisional Application Details :

Date : 05-11-2014

CBR Number : 20429

Complete Application Details

Date : 27-10-2015

CBR Number : 22337

Applicant Details

: Sankar.I, AP(SG)  
Mechanical Engineering Department,  
National Engineering College,  
K.R.Nagar, Kovilpatti-628503

- Others departments are also started the funded projects that is useful for the society to file patents to file patents within one year.

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

S.No.	Dept.	Name of Funding agency	Name of the project	Total grant received	Period
1.	MECH	BRNS	Optimization of grain size for improving fatigue strength of 304 Hcu	33,52,500	2014-2017
2.		AICTE/RPS	Labview Integrated Performance Monitoring and Analyzing Energy Data of Co-Located PV Power Plants with Different Technologies	12,50,000	2013-2016
3.		DST / SERI	Experimental Study on Solar Steam Generation System with Compressed Water Thermal Energy Storage System	38,91,000 (college contribution Rs. 13,00,000/-)	2014-2016
4	ECE	DST (TDT)	Fully Automated Coconut harvesting Machine	24,41,360	2015-2018
5	EEE	AICTE	Tuning of Nonlinear PID Controllers for TRMS using Evolutionary Algorithms	9,75,000	2013-2016
6	Chemistry (S&H)	CSIR	Molecular design, Chemical synthesis and biological evolution of Zinc and Vanadium complexes	11,45,000	2013-2016

S.No.	Dept.	Name of Funding agency	Name of the project	Total grant received	Period
7		BRNS(DAE)	Syntheses of novel BFC agents and biomolecule - BPCA conjugates for complexation with Cu, Re, Ga, Tc, and Lu radionuclide's for possible applications in radiopharmaceutical applications	24,24,500	2014-2017
8		DST	Synthesis, Structural Characterization, Stability and Chemical nuclease activity of some Cu(II) and Zn(II) complexes containing imidazole and pyridine	44,25,000	2015-2018
9		BRNS(DAE)	Spatial Distribution of Uraninan and associated water quality parameters in 5 Districts of Tamil Ndu	25,24,650	2015-2017

**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 following departments of the college have been recognized for their research activities.

- Mechanical Engineering Department
- Electrical and Electronics Engineering Department
- Electronics and Instrumentation Engineering Department
- Science & Humanities Department
- Computer science Department
- Electronics and Communication Engineering Department.
- Information Technology Department(Under progress)

An R&D Lab sponsored by IGCAR, Kalpakkam is utilized by faculty members for the research activities. BRNS Sponsored Creep Testing lab worth 33lakhs in mechanical department is also used by the researchers for their research activities.

BRNS and CSIR Sponsored lab in Science and Humanities is utilized by the researchers for their research activities.

**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	Dept.	Funding agency	Title of the project	Principal Investigator	Amount	Period
1.	CMS	BRNS	Design and development of large diameter slewing ring bearings for fast breeder reactors	PI:Dr.K.Manisekar Prof. & Head / CMS Co-I: Mr.M.Kathiresan AP(SG)/Mech	21,47,100	2006-2009
2.	MECH	BRNS	Prediction and control of distortion in components during hard facing.	PI:Dr.D.Ravindran Prof. & Head/ Mech. Co-I:Dr.S.L.Mannan Dean (R&D)	20,14,600	2008-2010
3.	MECH	AICTE (RPS)	Super plastic diffusion bonding of titanium sheet with austenitic stainless steel.	PI:Dr.D.Ravindran Prof. & Head/ Mech. Co-I:Dr.T.Vigraman AP(SG)/Mech.	6,30,000	2008-2010
4	CSE	DST	Real time multi human Tracking and activity recognition system	PI :Dr.K.Ramar Co-I :Dr.V.Gomathi Asso.Prof.(SG) / CSE	14,41,200	2006-2009
5	CSE	AICTE (RPS)	Real time Human activity recognition system	PI:Dr.V.Gomathi Asso.Prof.(SG) / CSE	3,70,000	2006-2008
6	CSE	DRDO	Development of an Intrusion Detection system for Mobile ad-hoc Networks using Game Theoretical models	PI:Dr.B.Paramasivan Prof. Head/CSE Co- I:Dr.K.Mohaideen Pitchai, Asso.Prof/CSE	27,16,000	2011-2013
7	CSE	AICTE	Intrusion prevention system for adhoc network security	PI: Dr.B.Paramasivan Prof. Head/CSE Co- I: Dr.K.Mohaideen Pitchai, Asso.Prof/CSE	9,70,000	2012-2014
8	CSE	CSI	Development of an intelligent irrigation system using wireless sensor networks	PI: Dr.B.Paramasivan Prof. Head/CSE Co- I: Dr.K.Mohaideen Pitchai, Asso.Prof/CSE	45,000	2012 - 2013

S. No	Dept.	Funding agency	Title of the project	Principal Investigator	Amount	Period
9	CSE	IE(I)	Design and Development of an Intelligent structural health monitoring system for a simply supported bridge using wireless sensor network	PI: Dr.B.Paramasivan Prof. Head/CSE Co- I:Dr.K.Mohaideen Pitchai, Asso.Prof/CSE	1,50,000	2012-2014
10	CSE	AICTE(MODROBS)	Modernization of Common Computing Facility & Establishment of Advanced Computing Environment	PI: Dr.B.Paramasivan Prof. Head/CSE Co- I: Mr.S.Solaisamy Sr.Sys.Prog/CSE	6,80,000	2013-2014
11	ECE	IGCAR	Artificial Intelligence based Computer Aided Detection for Medical Application	PI: Dr.A.Shenbagavalli Prof. & Head / ECE Co-I: Dr. M.Sundaram AP(SG) / ECE	15,83,040	2012-2015
12	ECE	AICTE(MODROBS)	Modernisation and upgradation of IC and Microprocessors Lab	PI: Dr.A.Shenbagavalli Prof. & Head / ECE	12,00,000	2013-2014
13	EEE	DRDO	Four Quadrant operation of a switched reluctance motor with a single controllable switch.	PI:Mr.M.Ravindran, Assoc. Prof. / EEE Co-I:Mrs.L.Kalaivani AP(SG) / EEE Mr.M.P.E.Rajamani AP (SG) / EEE	9,45,000	2008-2011
14	EEE	DST	Investigations of Critical Electrical Characteristics and UV Response of Transformer Oil for Optimized functions of Power Transformer	PI:Mr.R.Karthik, AP (SG) / EEE	7,64,000	2010-2012
15	EEE	DRDO	Four Quadrant Operation of Switched Reluctance Motor with a Single Controllable Switch	PI: Dr.M.Ravindran Asso.Prof./EEE Co-I: Dr.L.Kalaivani Asso.Prof.(SG)/EEE Mr.M.P.E.Rajamani Asst.Prof.(SG)/EEE	9,45,000	2008-2011
16	EEE	DST	Investigations of Critical Electrical Characteristics and UV Response of Transformer Oil	PI: Dr.R.Karthik Asso.Prof / EEE	7,68 ,000	2010-2012
17	EIE	BRNS	Development of Hall Sensor array based Magnetic Flux	PI: Dr.A.Abudhahir Co- I: r.I.Jackson Daniel Asso.Prof./EIE	23,56,900	2011 - 2013

S. No	Dept.	Funding agency	Title of the project	Principal Investigator	Amount	Period
			Leakage(MFL) system for non-destructive image and evaluation of localized defects in ferromagnetic steam generator tube	Mr.V.Suresh Asso.Prof./EIE		
18	IT	ICMR	Diagnosis of Diabetic retinopathy by feature extraction from retinal images	PI: Dr.D.Manimegalai Prof. & Head / IT Co-I: Dr.D.Shanthi Asso.Prof. (SG) / EIE	13,09,271	2012-2015
19	Chemistry (S&H)	BRNS	Synthesis, characterization and stability of bi functional Chelate Ga(III), Cu(II), and Zn(II) complexes	PI:Dr.M.A.Neelakantan Prof. & Head / S&H	28,18,550	2007-2010

### 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?

- An Research and development cell is established with a dean is appointed to promote research activities
- College has provided separate space for doing research activities in each departments.
- Computer with internet facility is provided to the research scholars and faculty members for research activities.
- Invite proposals from various departments and ensure their timely submissions.
- Follow up on the status of proposals submitted for funding.
- Equipments procured for research are purchased for research activities.
  - WiFi facility with 165 Mbps bandwidth is provided.

#### 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.

- Yes the College have an information resource centre to cater to the needs of researchers. An Research and Development cell is established with the dean is appointed for encouraging the faculties to promote research activities. The Research and Development cell frequently monitoring reputed magazines and newspaper for the research projects from various funding agencies. Details about this research projects is circulated to various departments heads to make the faculties to

prepared funded proposals for research projects.

- R&D cell is also maintaining International/National Journals, International/National Magazines, E-Journal as IEEE, Elsevier Springer, Informatics, etc makes it useful for researchers for their research activities.

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

- Yes , the College provide residential facilities for research scholars and faculty. About five rooms is allotted in college hostel with computers and Wi-Fi facilities for researchers to do their research work. Faculty members are also allowed to stay in college hostel permanently to complete their research work.
- Additionally Chemistry laboratory in Science and Humanities department opened throughout the day and the faculty members are utilizing the laboratory for the research work.

### **3.3.4 Does the College have a specialized research centre/ workstation to address challenges of research programmes? Yes the college have a specialized research centre/workstation to address challenges of research programmes.**

The six departments Mechanical, EEE, EIE, ECE, CSE and Chemistry have been recognized as research centers by Anna University. Each center has adequate number of recognized research supervisors for Ph.D and M.S (By research). All the research centers are equipped with the state-of-the-art instruments. Research facilities such as Networking lab, Energy park, Nondestructive testing lab, High voltage lab, Manufacturing science lab, Radiopharmaceutical chemistry lab etc have been established by in-house and external agency research funding. Many scholars are pursuing Ph.D programmes under the guidance of research supervisors in our college in areas such as Image processing, Networking, Control systems, Solar photo-voltaic, Solar – thermal, Composite materials, Biomedical engineering, High voltage engineering, evolutionary computing etc. Each department has been well equipped with sufficient number of computer systems for computing purposes vis-à-vis research.

The college has well sophisticated – fully air conditioned conference and assembly hall with LCD projector and a very good PA system. In addition to the above, all the departments have well-furnished seminar halls are in the college to conduct conferences, seminars, Doctoral committee meetings, Viva-voice examinations, workshops etc.

**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, the College have research facilities (centre, etc.) of regional, national and international recognition/repute.

**Individual department Recognition sought**

- ❖ Computer Science Engineering
- ❖ Electronics and Communication Engineering
- ❖ Information Technology (in progress)

**Anna University Recognized Research centers:**

- ❖ Mechanical Engineering Department
  - ❖ Electrical and Electronics Engineering Department
  - ❖ Electronics and Instrumentation Engineering Department
  - ❖ Chemistry Department
- These facilities are used by the faculties to prepare the proposals for getting funded projects from various funding agencies.
  - To work for funded projects received from various agencies.
  - Demo's are shown to the students about the ongoing funded projects.
  - Organizing social activities related to the funded projects. For example, ECE department has organized a one day free medical camp for women related to the funded project "Artificial Intelligence based Computer Aided detection for Medical Application" funded by IGCAR, Kalpakkam.
  - ECE Department has organized a two days seminar on "Applications of Thermal Imaging" funded by IGCAR, Kalpakkam.
  - In the last academic year e-yantra lab has started in ECE, EEE and E&I departments that is helpful for the students for doing the research in robotics field.
  - BRNS and CSIR sponsored laboratories in Science and Humanities is utilised by researchers for doing research in chemistry.

**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
- Publications per faculty
- Faculty serving on the editorial boards of national and international journals.
- Faculty members on the organization committees of international conferences, recognized by reputed organizations/societies

**PUBLICATIONS IN PAST FIVE YEARS**

Sl. No	Department	Journals		No. of Journals with Impact Factor	Total Impact Factor	Conference	
		National	International			National	International
1.	S & H	-	56	44	58.808	-	-
2.	Civil	1	1	2	1.387	8	1
3.	CSE (UG)	-	56	21	15.128	18	40
4.	CSE (PG)	1	35	9	6.681	41	45
5.	ECE	-	53	15	13.798	35	53
6.	EEE	-	29	23	25.733	36	51
7.	EIE	3	17	2	1.297	4	60
8.	IT	5	58	39	40.125	76	62
9.	Mechanical	-	86	68	138.774	23	19
<b>TOTAL</b>		<b>10</b>	<b>391</b>	<b>223</b>	<b>301.731</b>	<b>241</b>	<b>331</b>

- Details about faculties serving on editorial boards:

Name	Designation	Post
Dr. Kn.K.S.K. Chockalingam	Director, National Engineering College, India.	Editor
Dr.N.Lenin,	Professor National Engineering College, India.	Associate Editor
Dr. S.L. Mannan,	Former Director (Metallurgy & Materials Group), IGCAR, Dean (R&D), National Engineering College, India	Member
Dr. K. Manisekar,	Professor, National Engineering College, India.	Member

**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 the journal -----

**EDITORIAL BOARD**

Dr. KN.K.S.K. Chockalingam, Editor  
Director, National Engineering College, India.

Dr.N.Lenin, Associate Editor  
National Engineering College, India.

Dr. Alavala Chenna Kesava Reddy, Member  
JNTU, Hyderabad, Andrapradesh, India.

Dr. A.F.M. Arif, King Bahd University of Petroleum & Minerals, Saudi Arabia.	Member
Dr. S. Venugopal, Head, Robotics, Irradiation Experiments and Remote Handling Division, IGCAR, Kalpakkam, India.	Member
Dr. U.S. Dixit, IIT, Guwahati, Assam, India.	Member
Dr. Mahesh Chaturvedi, Manitoba University, Canada.	Member
Dr. S.L. Mannan, Former Director (Metallurgy & Materials Group), IGCAR. Dean (R&D), National Engineering College, India.	Member
Dr. K. Manisekar, National Engineering College, India.	Member
Dr. K. Raghukandan, Annamalai University, Tamilnadu, India.	Member
Dr.Reijo Tuokko, Tampere University of Technology, Finland.	Member
Dr. Sathish. V. Kailas, Indian Institute of Science, Bangalore, India.	Member
Dr.Seuck-Sam Kim, Kyungpook, National University, Republic of Korea.	Member
Dr. Shujie Li, Beijing University of Aeronautics & Astronautics, China.	Member

**Publication Policies:**

- Papers are published after peer reviewed in journals

Efforts are being taken to list the journal in the national and international database.

3.4.3 Give details of publications by the faculty:

- Number of papers published in peer reviewed journals (national / international)
- Monographs
- Chapters in books
- Editing books
- Books with ISBN numbers with details of publishers
- Numbers listed in international Database( For e.g Web of science, Scopus, Humanities International complete, Dare Database – International Social Sciences Directory, EBSCO host,etc)
- SNIP
- SJR
- Impact factor- range/average
- H-index

S. No	Department	Number of Papers published in peer reviewed journals	Monographs	Chapters in books	Books Edited	Books with ISBN With details of publishers	Number listed in international Database	Citation Index range/Average	SNIP/SJR	Impact factor range/average	h-index Average
1.	Mechanical	55	2	Nil	Nil	Nil	26	-	-	2.067	2.67
2	IT	34	-	Chapter 125	-	978-81-322-2119-7	-	Dr.D.Manimegalai: 187 Dr.V.Seenivasagam: 75 Dr.M.Kaliappan:9	-	IFRange 0.185-3.334 H index 90	Chapter 125
3	EEE	30	-	-	-	-	23	Dr.M.Willjuice- 39-0, Ms.L.Kalaivani - 1 Mr.R.Karthik -2 , Mr.J.Sivadasan -3		Dr.P Subburaj - 0.837-2.247, Dr.M.Willjuice - 3.005-0.450, Mr.R.Karthik - 0.159-1.173	Dr.M. Willjuice- 7 Ms.L. Kalaivani - 1 Mr.R. Karthik -1 , Mr.J.Sivadasan -1
4	E&I	7	-	-	3	-	-	-	0.010-0.220/ 0.071-0.138	0.236-1.493/ 0.672 and 6- 26	

S. No	Department	Number of Papers published in peer reviewed journals	Monographs	Chapters in books	Books Edited	Books with ISBN With details of publishers	Number listed in international Database	Citation Index range/Average	SNIP/SJR	Impact factor range/average	h-index Average
5	ECE	37	-	-	-	-	13	-	-	-	-
7	CSE	15	-	-	-	-	-	Average: 0.845	-	Dr.B.Paramasivan h-index:1 Dr.V.Gomathi h-index-1	Dr.B.P ara,asi van-2 Dr.V.G omathi -2
7	S&H	32	-	-	-	-	-	583	-	12	12

**3.4.4 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty.**

- An average of five successful Ph.D. scholars are guided by each supervisor.

**3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?**

- R&D division of our college checks for malpractices and misconduct in research by scrutinizing the project proposal and forwarding to funding agencies.
- The faculty members are instructed to verify their research article through plagiarism software before submitting their articles to any journals.
- The research review committee needs the research scholars periodically to ascertain the originality of the research work
- Doctoral Council meeting is conducted periodically for the ph.D scholars for scrutinizing and monitoring the research activities.

**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 promote interdisciplinary research.
- \* Three departments are involved in such an endeavor. They are

1. Electronics and Instrumentation Engineering.
2. Mechanical Engineering.
3. Information technology.

\* Two projects have been undertaken

1. One project between E&I and IT funded by ICMR, New Delhi
2. Other project between E&I and Mechanical funded by MNRE, New Delhi

Also the inter departmental/inter disciplinary research by providing 50% of overhead charges are given as incentives to Principal Investigator and 50% to co-investigator

### 3.4.7 Mention the research awards instituted by the College.

Incentives are awarded to the faculty for their research contributions.

- With an Impact Factor  $\leq 0.5$  – Rs.2000/- Impact Factor  $>0.5$  &  $<1.5$  – Rs. 5000/- Impact Factor  $>1.5$  – Rs. 10,000/- for publishing of research papers in reputed journals.
- 50% of the Overhead Charges to the Principal Investigator & Co-Investigator for the funded projects.
- Rs.10,000 is awarded for best project .

### 3.4.8 Provide details of

\* research awards received by the faculty

Sl. No.	Awarded for	Norms	Incentives Amount	
			2013-14	2014-15
1	Publications	Impact Factor $\leq 0.5$ – Rs.2000/- Impact Factor $>0.5$ & $<1.5$ – Rs. 5000/- Impact Factor $>1.5$ – Rs. 10,000/-	3,61,420/-	2,74,000/-
2	Funded projects	50% of the Overhead Charges to the Principal Investigator & Co-Investigator	86,030/-	93,994/-
Total			4,47,450/-	3,67,994/-

\* recognition received by the faculty from reputed professional bodies and agencies

Sl.No	Name	Awards Received
1.	Dr.B.Sankaragomathi	✓ Best Faculty Award – Nehru Groups ✓ Periyar Award – ISTE
2.	Dr.B.Paramasivan	✓ IEEE Senior Membership Award

3.	Dr.P.Subburaj	✓ Life Time Achievement Award - ISTE
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**3.4.9 State the incentives given to faculty for receiving state, national and international recognitions for research contributions.**

Sl. No.	Awarded for	Norms	Incentives Amount	
			2013-14	2014-15
1	Publications	Impact Factor ≤ 0.5 – Rs.2000/- Impact Factor >0.5 & <1.5 – Rs. 5000/- Impact Factor >1.5 – Rs. 10,000/-	3,61,420/-	2,74,000/-
2	Funded projects	50% of the Overhead Charges to the Principal Investigator & Co-Investigator	86,030/-	93,994/-
<b>Total</b>			<b>4,47,450/-</b>	<b>3,67,994/-</b>

**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 institute has a policy for structured consultancy. Heads of various departments and senior faculty members coordinate with industries for consultancy services. These services are offered by various departments which include conducting technical and management development program, testing services, consultancy services, collaboration services and industrial problem solving.

**Technical and Management development programmes**

Client Name	Nature of Work
HOTEL AAR ROYAL PARK, Vasantha Nagar, Tirunelveli	Grid tied Solar PV Roof Top Restaurant – 78 kWp
Valluvar Colony, Tirunelveli	Zero Electricity Bill House – 14 kWp supported by Solar PV With Battery backup to run 6 X 1.5 T A/C and other electric loadings (first of its kind in India)
Lakshmi Ammal polytechnic	300 m3 Biogas plant
Raghu International, Kodaikanal	30 KLD Sewage Treatment Plant
Kayaar Exports private Ltd.,	60 KLD Sewage treatment plant

<b>Client Name</b>	<b>Nature of Work</b>
Nalatinputhur, Kovilpatti	
Kayaar Exports Private Ltd., Nalatinputhur, Kovilpatti	Power quality study on harmonics, capacitor relocation for energy savings and submission of implementation report – March 2013
Kayaar Exports Private Ltd., Nalatinputhur, Kovilpatti	Energy audit in lighting systems and submission of post implementation report on energy savings – December 2013
Innowell Engineering International Pvt. Ltd., Vadapalani, Chennai	Project Tool Development
Kayaar Exports Private Limited	Service of computer and computer peripherals repairing, LAN connectivity issues to mill's all departments.
Madurai Corporation	CCTV surveillance system installation at Madurai Corporation
Madurai Corporation	Biometric Attendance system with GPRS at Madurai Corporation
COREGEN Technologies	Wind – Form Monitoring System
Sigma Communication	Installation and Maintenance of EPBAX system
Power harmonic Measurements for Induction Motor.	Noorul Islam University, Thuckalay
AC withstand voltage test for nano composite materials	Thiagarajar Engineering College, Madurai
PD measurement in Nano composite solid dielectric	Amrita School of Engg, Coimbatore
PD measurements in HV cables	CSI Institute of Technology
HVAC, HVDC and Impulse generation	Anna University, Regional Centre, Madurai
PD measurements and Breakdown studies in solid dielectrics	Kamaraj College of Engg, Virudhunagar
Energy Purchase through IEX and Installation of Separate Feeder	M/S. K. R. Mills, Kovilpatti
Sewage treatment plant	Subburaj Mills, Kovilpatti

Client Name	Nature of Work
(Diffused aeration type)	
Sewage treatment plant (Surface aeration type)	National Engineering College, Kovilpatti
Mix design of concrete	Sri Jeyanthi Builders, Kovilpatti
Compressive test on bricks, plywood	KR Exports, Kovilpatti
Tensile test on Torsed Steel	Safi Traders, Kovilpatti

**3.5.2 Does the College have College-industry cell? If yes, what is its scope and range of activities?**

- \* Yes the college has EDC cell which interacts with industries to identify industrial problems so that need based U.G. and P.G. projects can be undertaken.

**Scope of the Cell**

To provide,

- Industry immersion programme for teaching faculty
- Internship for students
- Technical and Management training to Industry professionals
- Testing and Consultancy Projects for the Industry etc.,
- Through the Industry – Institute Interface Cell, MoUs have been signed with various Industries.

**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.**

- Various departments of the college organizes several national/international conferences and experts from various industries are invited for these conferences.
- The experts come to know about the area of specialization of various faculties by visiting the departments during these conferences and it is one way of publicizing the expertise of the College for consultancy services.
- Expertise of the college from various departments are known through college websites.

**Departments with consultancy services:**

Department of Mechanical, Computer Science, Electrical and Electronics, Electronics and Instrumentation and Civil Engineering.

**3.5.4 How does the College encourage the faculty to utilise the expertise for consultancy services?**

To encourage the faculty to utilize the expertise for consultancy services, the management shares 10% of the net revenue generated through consultancy as an incentive to those involved in the consultancy, provides special leaves and also concession in the regular academic workload.

**3.5.5. List the broad areas of consultancy services provided by the College and the revenue generated during the last four years.**

**Department of Mechanical:**

<b>Sl. No.</b>	<b>Client Name</b>	<b>Nature of Work</b>	<b>Status and Revenue</b>
1.	HOTEL AAR ROYAL PARK, Vasantha Nagar, Tirunelveli	Grid tied Solar PV Roof Top Restaurant – 78 kWp	Completed (Free Cost)
2.	Valluvar Colony, Tirunelveli	Zero Electricity Bill House – 14 kWp supported by Solar PV With Battery backup to run 6 X 1.5 T A/C and other electric loadings (first of its kind in India)	Completed (Free Cost)
3.	Lakshmi Ammal Polytechnic	300 m3 Biogas plant	Completed (Free Cost)
4.	Raghu International, Kodaikanal	30 KLD Sewage Treatment Plant	Completed (Free Cost)
5.	Kayaar Exports private Ltd., Nalatinputhur, Kovilpatti	60 KLD Sewage treatment plant	Completed (Free Cost)
6.	Kayaar Exports Private Ltd., Nalatinputhur, Kovilpatti	Power quality study on harmonics, capacitor relocation for energy savings and submission of implementation report – March 2013	Rs.50,000/-
7.	Kayaar Exports Private Ltd., Nalatinputhur, Kovilpatti	Energy audit in lighting systems and submission of post implementation report on energy savings – December 2013	Rs.50,000/-

**Department of computer science**

<b>Sl. No</b>	<b>Client Name</b>	<b>Nature of work</b>	<b>Status and Revenue</b>
1	Innowell Engineering International Pvt. Ltd., Vadapalani, Chennai	Project Tool Development	Completed (Rs.12,000)
2	Kayaar Exports Private Limited	Service of computer and computer peripherals	Completed (Rs.1,24,780)

Sl. No	Client Name	Nature of work	Status and Revenue
		repairing, LAN connectivity issues to mill's all departments.	

#### Department of ECE

Sl. No.	Client Name	Nature of work	Status and Revenue
1	Madurai Corporation	CCTV surveillance system installation at Madurai Corporation	Completed (Rs.6,45,770)
2	Madurai Corporation	Biometric Attendance system with GPRS at Madurai Corporation	Completed (Rs.3,80,000/-)
3.	COREGEN Technologies	Wind – Form Monitoring System	Rs.4,00,000/-
4.	Sigma Communication	Installation and Maintenance of EPBAX system	Free of cost

#### Department of EEE

Sl. No	Client Name	Nature of work	Status and Revenue
1	Power harmonic Measurements for Induction Motor.	Noorul Islam University, Thuckalay	Completed (11,000/-)
2	AC withstand voltage test for nano composite materials	Thiagarajar Engineering College, Madurai	
3.	PD measurement in Nano composite solid dielectric	Amrita School of Engg, Coimbatore	
4.	PD measurements in HV cables	CSI Institute of Technology	Completed (1,29,000/-)
5.	HVAC, HVDC and Impulse generation	Anna University, Regional Centre, Madurai	
6.	PD measurements and Breakdown studies in solid dielectrics	Kamaraj College of Engg, Virudhunagar	
7.	Energy Purchase through IEX and Installation of Separate Feeder	M/S. K. R. Mills, Kovilpatti	

**Department of Civil:**

<b>Sl. No.</b>	<b>Client Name</b>	<b>Nature of work</b>	<b>Status and Revenue</b>
1	Sewage treatment plant (Diffused aeration type)	Subburaj Mills, Kovilpatti	Completed (Free Cost)
2	Sewage treatment plant (Surface aeration type)	National Engineering College, Kovilpatti	Completed (Free Cost)
3.	Mix design of concrete	Sri Jeyanthi Builders, Kovilpatti	Completed (Rs.10,000)
4.	Compressive test on bricks, plywood	KR Exports, Kovilpatti	Completed (Free of Cost)
5.	Tensile test on Torsed Steel	Safi Traders, Kovilpatti	Completed (Rs.15,600)

**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 encourages the faculty and students to involve in socially responsible extension activities through various extra curricular clubs. The following are the few socially outreach programmes which have created an impact on student's campus experience.

- awareness programs or rallies in/Off the campus.
- tobacco awareness rally.
- voting awareness rally.
- helmet awareness rally.
- IGCAR – Breast Cancer Awareness Camp
- Designed sewage treatment plant for Subburaj Mills, Kovilpatti
- Social Awareness program on, “Electrical Energy Conservation and Safety” by Social Awareness Cell.
- TESENEC- A State level Science and Technological related Project Exhibition Competition for the School students.
- Programme on MS Access for Women Self Help Group Members.
- Training on Microsoft Office Package for Junior Assistants in various Schools of Thoothukudi District .

**3.6.2 How does the College promote College-neighborhood network and student engagement, contributing to holistic development of students and sustained community development?**

By co-curricular and extracurricular activities,

- such as intercollege hockey tournaments, foot ball tournaments...

- By conducting intra college cultural activities
- By conducting Voters day awareness, Helmet Awareness, Electoral registration and importance of voting rallies.
- By conducting inter/intra college technical symposiums and workshops.
- NSS and NCC volunteers are providing security for kumbabishkam function in temples.

**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?**

- The College motivates the students to participate in the extension activities to develop their mental and physical strength, leadership qualities and organizing capabilities
- The College has allotted one hour especially for the students to participate in YOGA and make themselves relax and keep their mind free and enthusiastic.
- The College has given full freedom to students to organize seminars, rallies and other awareness programs under the banner of NCC, NSS, YRC, RRC and other clubs etc.
- The staff-coordinators and students of NSS, NCC and YRC are encouraged to organize free medical camp, blood donation camp.
- Students of these agencies are motivated to visit orphanages periodically

**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?**

**National Service Scheme**

<b>NSS Activities for the academic year 2011-12</b>	
1.	NSS volunteers rendered their services for regulating the crowd in Kumbaabishekam function at Shenbagavalli amman kovil at Kovilpatti on 29.01.2012. 50 NSS volunteers from our college were participated.
2.	Tree plantation program was organized on 18.02.2012. More than 100 trees were planted in chinnamalaikundru village.
3.	One day General medical camp was conducted by our NSS Volunteers in association with meenakshi mission hospital, Madurai on 20.02.2012. Around 200 peoples from Chinnalaikundru and nearby villages were benefited.
<b>NSS Activities for the academic year 2012-13</b>	
1.	Helmet awareness rally was organized by our NSS at Kovilpatti on 31.07.2012 around 100 NSS volunteers were participated.
2.	General Medical camp for Ladies was conducted on 19.01.2013 in Nalatinpudhur. Around 300 peoples were benefited
3.	Voter's day awareness rally was conducted on 24.01.2013 at Kovilpatti. Around 100 volunteers were participated

4.	One day Eye camp was conducted by our NSS Volunteers in association with Aravind Eye hospital, Tirunelveli on 05.02.2013. Around 200 peoples from Mukkutumalai and nearby villages were benefited.
5.	One day General medical camp was conducted by our NSS Volunteers in association with meenakshi mission hospital, Madurai on 06.02.2013. Around 200 peoples from Mukkutumalai and nearby villages were benefited.
6.	NSS volunteers rendered their services to clean the school, temple and public places of chinnamalaikundru village.
<b>NSS Activities for the academic year 2013-14</b>	
1.	One day NSS camp was conducted at 'Murugan' Temple, Kalugumalai by NSS units of our college on 22.07.2013 to clean the temple premises and temple pond.
2.	Awareness rally about "Electoral roll registration and importance of voting" was conducted by NSS units of our college on 07.10.2013 at Kovilpatti. Around 100 NSS volunteers of our college were participated.
3.	Tobacco awareness rally was conducted in Kovilpatti on 04.02.2014 by NSS units of our college. 100 NSS volunteers were participated.
4.	Road safety awareness program was conducted to Our college students by NSS units of our college on 12.02.2014. 800 students from our college were participated.
<b>NSS Activities for the academic year 2014-15</b>	
1.	Women protection awareness program was conducted to the girl's students of our college on 24.09.2014. Mr. Murali Ramba, Assistant Superintendent of Police, Kovilpatti was the chief guest. 200 girls students were participated the program.
2.	Temple, School, play ground primises of Inam Arunachalapuram village and Tholmalpatti village were cleaned by our NSS volunteers on 14.02.2015.
3.	Fire and safety awareness mock drill program was conducted to Inam Arunachalapuram village people on 16.02.2015 by Fire and rescue officers, Kovilpatti
4.	General Medical camp was conducted by NSS units of our college in association with Meenakshi mission hospital, Madurai on 17.02.2015. 300 people from Inam Arunachalapuram village and from nearby villages were benefited.

**National Cadet Corps (NCC) –Army Wing  
2/9, 9(TN) Signal Coy NCC  
Training Activities of NCC Cadets and NCC Officer for the  
Year 2014 – 2015:**

Sl. No.	Name of the activity	Date
1	Water Conservation Awareness – Program	28.08.2014
2	Blood donation camp, St.John's College, Palayamkottai	22.09.2014
3.	Polio drops camp- Kayattar Toll Gate	19.01.2015 and 20.01.2015

Sl. No.	Name of the activity	Date
4	Thaipusam Banthobasthu Duty – Thirupadaimaruthur Sivan Temple	03.02.2015
5	150 KM cycle rally- “Dengue Awareness” and “Clean India”	20.02.2015 and 21.02.2015
6	Polio Drops Camp – Kayattar Toll Gate	22.02.2015

**Training Activities of NCC Cadets and NCC Officer for the Year 2013 – 2014:**

Sl. No.	Name of the activity	Date
1	Thirupadaimaruthur Sivan Temple Kumbhabisekam	14.07.2013
2	Voter’s day Awareness Rally	07.10.2013
3	Thirupadaimaruthur sivan temple thai pusam bandhobusthu	17.01.2014
4	Water conservation tobacco awareness rally	04.02.2014

**Training Activities of NCC Cadets and NCC Officer for the Year 2012 – 2013:**

S. No	Particulates	Year	Date	NCC Cadets & ANO Participation
1	Helmet awareness Rally	2012	31.07.2012	100 NCC Cadets and NCC Officer, Staff Asst.
2	Banthobasthu for Vinayagar Sathurthi Rope Car at Kovilpatti	2012	22.09.2013	Ten NCC Cadets
3	Voters Day awareness Rally	2013	24.01.2013	100 NCC Cadets and NCC Officer, Staff Asst.
4	Lecture on Self Defense, Safety Precautions, AIDS Awareness at CATC Camp, PSNCE, Melathidiyur	2013	10.02.2013	NCC Officer
5	Pyramid Cultural and Silambum Competitions	2013	12.02.2013	25 NCC Cadets

**Training Activities of NCC Cadets and NCC Officer for the  
Year 2011 – 2012:**

<b>S. No</b>	<b>Particulars</b>	<b>Year</b>	<b>Date</b>	<b>NCC Cadets &amp; ANO Participation</b>
1	Fire and Safety Demo at NEC Auditorium	2011	11.08.2011	75 Cadets and ANO
2	Army Attachment Camp, Secunderabad	2011	16.08.2011 to 01.09.2011	10 Cadets
3	Pulse Polio Immunization Rally, St.Xaviers College, Palayamkottai	2011	24.09.2011	50 Cadets and ANO
4	Blood Donation Camp, GH, Kpt at NEC Auditorium (NCC and YRC)	2011	30.09.2011	75 Cadets and ANO
5	Local Body Election in and around Kovilpatti area	2011	18.10.2011 to 19.10.2011	35 Cadets
6	National Voters Day Campaign at Kovilpatti	2012	24.01.2012	30 Cadets and ANO
7	Arulmigu Shenbagavalli Amman Kovil Kumbhabhisekham Function Volunteers from NCC	2012	29.01.2012	50 Cadets and ANO

**List of activities for the Year 2010 -2011:**

<b>S. No</b>	<b>Particulars</b>	<b>Year</b>	<b>Date</b>	<b>Our College NCC Cadets &amp; ANO Participated in No.</b>
1	Cancer Awareness Drive Rally at Tirunelveli	2010	10.10.2010	10 Cadets
2	Rain Water Harvesting Conference at St.Xaviers HSS, Tirunelveli	2010	24.10.2010	05 Cadets
3	AIDS Awareness Rally at 5 TN.BN, Tirunelveli	2010	31.10.2010	05 Cadets
4	Anti Plastic Rally at Sankar Polytechnic College, Sankar Nagar	2010	07.11.2010	02 Cadets

### YOUTH RED CROSS SOCIETY

<b>YRC Activities for the academic year 2011-12</b>	
1.	Arranged an “ <b>Orphanage Visit</b> ” to Deaf and Dumb school at Tirunelveli, on 15-08-2011. More than 75 students of our college engaged in that visit and conducted many games and cultural activities.
2.	Conducted a “ <b>Blood Identification Camp</b> ” on 28-09-2011 for the First year students.
3.	Conducted a “ <b>Blood Donation Camp</b> ” on 30-09-2011 in our college. Totally 100 of our college students donated their blood. Doctors from “Blood Bank, Government Hospital, Kovilpatti” took over this camp.
<b>YRC Activities for the academic year 2012-13</b>	
1.	Arranged an “ <b>Orphanage Visit</b> ” to Hope Foundation at Tirunelveli, on 15-08-2012. More than 75 students of our college engaged in that visit and conducted many games and cultural activities.
2.	Conducted a “ <b>Blood Donation Camp</b> ” on 19-10-2012 in our college. Totally 100 of our college students donated their blood. Doctors from “Blood Bank, Government Hospital, Kovilpatti” took over this camp.

### ANNUAL REPORT FOR THE YEAR 2014-2015

The following activities were conducted during the academic year 2014 - 2015

S.No	Date	Description
1	12.08.2014	Blood group & HB identification Camp
2	15.08.2014	Orphanage Visit - Deaf and Dumb home @ Tuticorin
3	07.10.2014	Blood donation camp
4	26.01.2015	Cleaned the nearby village Mudukkumeendanpatti under the scheme "SWACHH BHARATH ABIYAN"

### ANNUAL REPORT FOR THE YEAR 2015-2016

The following activities were conducted during the academic year 2015 -2016

S.No	Date	Description
1	21.07.2015	Blood donation Camp
2	15.08.2015	Orphanage Visit –“ Hope Foundation “ HIV affected students @ Tirunelveli
3	13.01.2016	Workshop – Disaster Management and First Aid training Program
4	17.01.2016 to 19.01.2016	Polio awareness camp through Camp through Government Primary Health centre, Villiseri
5	21.02.2016 to 23.02.2016	Polio awareness camp through Camp through Government Primary Health centre, Villiseri
6		Campus Cleaning

**RED RIBBON CLUB:**

***List Of Activities for the Academic Year 2011 – 12***

<b>S. No</b>	<b>Date &amp; Venue</b>	<b>Event</b>	<b>Resource Persons</b>	<b>Participants</b>	<b>Comments</b>
1	15.07.2011 & Mechanical Seminar Hall	“Awareness program for AIDS”.	Mr.Basker Pani Rajan	50 students	Created AIDS awareness among the students
2	24.8.2011 & Auditorium	Blood Identification & Donation Camp	Dr.Rajandra Prasad, Blood Bank Medical Officer & A.Banumathi Nachiar,Blood Bank Counsellor, GH Kovilpatti	125 students from all branches	Provided forum to service for society

***List Of Activities for the Academic Year 2012 – 13***

<b>S.No</b>	<b>Date &amp; Venue</b>	<b>Event</b>	<b>Resource Persons</b>	<b>Participants</b>	<b>Comments</b>
1	24.07.2012 & Assembly Hall	“Awareness program for AIDS”.	Mr.Basker Pani Rajan	50 students	Created AIDS awareness among the students
2.	19.10.12 & Auditorium	Blood Donation Camp	Mr. SriramKalayan Mrs.K.Vimala	100 students from all branches	Provided forum to service for society
3.	26.11.12	World AIDS day Celebration	Mr. SriramKalayan	30 Students from all branches	Inculcate the students talents
4.	12.2.13 Auditorium	Blood Donation Camp	Mr. SriramKalayan Mrs.K.Vimala	100 students from all branches	Provided forum to service for society

***List of Activities for the Academic Year 2013 – 2014***

<b>S.No</b>	<b>Date &amp; Venue</b>	<b>Event</b>	<b>Resource Persons</b>	<b>Participants</b>	<b>Comments</b>
1	16.07.2013 & Assembly Hall	“Awareness program for AIDS”.	Mr.Basker Pani Rajan	50 students	Created AIDS awareness among the students
2.	20.08.2013 & Auditorium	Blood Donation Camp	Mr. SriramKalayan Mrs.K.Vimala	100 students from all branches	Provided forum to service for society

S.No	Date & Venue	Event	Resource Persons	Participants	Comments
3.	29.09.2013 & Assembly Hall	Medical Camp	Mr.Velu, Mr.TamilKumaran Mr.SujeetKumar Pradhan Mr. Soundrapandi Daniel	220 Staffs from K.R Export, Lakshmi Ammal Polytechnic, K.R Arts, National Engineering College	Medical Service to Non Teaching Staffs
4.	28.01.2014 & Assembly Hall	HIV patient visit	Ms.Selvi	60 Students	Created AIDS awareness among the students
5	20.03.2014 & Assembly Hall	One day peer educator program	Mr.Basker Pani Rajan	40 Students	Motivation for leading healthy life

**List of Activities for the Academic Year 2014 – 2015**

S.No	Date & Venue	Event	Resource Persons	Participants	Comments
1	22.07.2014 & CSE- Seminar Hall	Public Health awareness and Education Program.	Mr.Basker Pani Rajan	50 students	Created AIDS awareness among the students
2.	13.08.2014 & Auditorium	Blood Donation Camp	Mr. SriramKalayan Mrs.K. Vimala	100 students from all branches	Provided forum to service for society

**3.6.5 Details about awards/recognition received by the college for extension activities/community development work:**

Name	Awards Received
Dr.Kn.K.S.K.Chockalingam, Director	✓ Life time achievement award
Dr.P.Subburaj,	✓ Life time achievement award
Dr.B.Sankaragomathi	✓ Women Engineer Award – IE (I) ✓ Best Faculty Award – Nehru Groups ✓ Periyar Award – ISTE
Dr.V.Gomathi	✓ Young Women Engineer Award – IE (I)
Mr.R.Karthick	✓ Young Engineer Award – DST
Mr. K.Karunai Raghavan	✓ Tamilnadu Best Young Librarian Award - Society for Advancement of Library and Information Science
Mrs.P.Bamaruckmani	✓ Best coordinator –RRC

**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?**

**Expected outcomes:**

- To gain need based knowledge from the society
- To acquire organizing skill and word of command
- To get physical training YOGA and other body and mind related exercises to be healthy so as to face the challenges in the outside world.
- To make the students survive in critical scenario.
- To develop relevant social thoughts among students.

**Values and skills inculcated:**

- Students are trained to have empathy and sympathy over needy people and also with socially, economically and physically weaker section of the society.

**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.**

- Served the society by the way of conducting free computer training programs to District judges, Police personnel, School teachers, School children ,TNEB Officials, Self Help Groups
- Has been helping the district revenue officials for preparation of electoralroll / update land details.
- Served the TNEB for computerizing the Billing System.
- Helping the government to conduct government exams.

**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 has a mechanism to track the students involvement in various social activities.

- Helmet awareness rally was organized by our NSS at Kovilpatti on 31.07.2012 around 100 NSS volunteers were participated.
- Fire and safety awareness mock drill program was conducted to Inam Arunachalapuram village people on 16.02.2015 by Fire and rescue officers, Kovilpatti.
- General Medical camp was conducted by NSS units of our college in association with Meenakshi mission hospital, Madurai on 17.02.2015. 300 people from Inam Arunachalapuram village and from nearby villages were benefited.

- Awareness rally about registering Author card number in Voter's ID was conducted on 19.03.2015. 105 NSS volunteers of our College were participated the rally.
- NSS units of our college organized one week special camp at Inam Arunachalapuram village from 13.02.2015 to 19.02.2015. Our volunteers rendered their services for developing the adapted villages.
  - \* Temple, School, play ground premises of Inam Arunachalapuram village and Tholmalpatti village were cleaned by our NSS volunteers on 14.02.2015.
  - \* Sports events were conducted to School students of Inam Arunachalapuram village and Tholmalpatti village on 14.02.2015. Winners were awarded with prizes.
  - \* Veterinary camp was conducted on 15.02.2015. Around 250 animals from Inam Arunachalapuram village
  - \* 100 trees were planted by our NSS volunteers in Inam Arunachalapuram village on 16.02.2015.
  - \* Fire and safety awareness mock drill program was conducted to Inam Arunachalapuram village people on 16.02.2015 by Fire and rescue officers, Kovilpatti
  - \* General Medical camp was conducted by NSS units of our college in association with Meenakshi mission hospital, Madurai on 17.02.2015. 300 people from Inam Arunachalapuram village and from nearby villages were benefited.
  - \* One day Eye camp was conducted by NSS units of our college in association with Aravin Eye Hospital, Tirunelveli at Inam Arunachalapuram village on 18.02.2015. During camp 220 patients were screened and 38 patients were selected for cataract surgery.

**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.**

National engineering college, K.R College of arts and science and Lakshmi ammal polytechnic jointly conduct

- National level Hockey tournament to the sports loving public
- provide security in various temples and other public functions through NSS and NCC.
- School Mentoring programme is organized by National Engineering for school students

**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.**

NAME	AWARDS RECEIVED
Dr.Kn.K.S.K.Chockalingam, Director	✓ Life time achievement award
Dr.P.Subburaj	✓ Life time achievement award
Dr.B.Sankaragomathi	✓ Women Engineer Award – IE (I) ✓ Best Faculty Award – Nehru Groups ✓ Periyar Award – ISTE
Dr.V.Gomathi	✓ Young Women Engineer Award – IE (I)
Mr.R.Karthick	✓ Young Engineer Award – DST
Mr. K.Karunai Raghavan	✓ Tamilnadu Best Young Librarian Award - Society for Advancement of Library and Information Science
Mrs.P.Bamaruckmani	✓ Best coordinat or – RRC

- Best CSI Students chapter award is received by our Institution for *SEVEN* times.

**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?**

**Visibility:**

In collaboration with state/National government research organisations, many sponsored research projects are carried out in the various departments of the college. International/National level conference, workshop, seminar, symposium are conducted by all the department and Student/staff chapters.

**Identity:**

- Recognized by research institutes and technocrats in the industries.

**Diversity:**

- Faculties doing application oriented research projects related to

- Medical field
- Defence field
- Chemical field
- Doing research projects that are useful for the society.
- Final year students are motivated to apply for funded projects to enhance their knowledge.

Academic Benefits for the college due to collaboration:

- Useful for the faculties in completing their Ph.D on time.
- Industrial experts were called for National/International conferences.

Experts from industries were called to give guest lecture for students

**Financial benefits:**

Sl.No	Department	Amount Received
1.	Science and Humanities	Rs. 1,62,37,700/-
2.	Mechanical	Rs. 1,32,95,500/-
3.	CSE	Rs. 45,81,000/-
4.	EEE	Rs.26,88,000/
5.	E&I	Rs.29,56,900/-
6.	ECE	Rs. 5183600/-
7.	IT	Rs.13,09,271/-

**3.7.2 Mention specific examples of, how these linkages promote**

- \* **Curriculum development**
- \* **Internship, On-the-job training**
- \* **Faculty exchange and development**
- \* **Research, Publication**
- \* **Consultancy, Extension**
- \* **Student placement**
- \* **Any other, please specify**

\* **Curriculum development**

Experts in R&D organization and industries act as member in Board of Studies (BOS) to update the curriculum and syllabi to meet out the requirements of the industries.

\* **Internship, On-the-job training**

- Department of CSE have MoU signed with IBM and given recognition as centre of Excellence..
- CISCO Networking Academy provide on job training to the students.
- One student of civil engineering department went for internship in L&T last year and Four students this year.

Details about student Internship in companies:

**Department of EEE:**

SL.No	Name of Company	No of Students
1.	Ericsson , Chennai	1
2.	HCL, Chennai	2
3.	Titan Company, Hosur	4
4.	TTPS, Tuticorin	4

**Department of Electronics and Instrumentation:**

- One student undergone Inplant training in India Space Research Organization

**Department of Information and Technology:**

Sl.No	Name of the company	No of students
1.	Solartis, Madurai	3
2.	Vernalis, Bangalore	2

**Department of Computer Science and Engineering:**

Sl.No.	Name of the company	No. of students
1.	Sum2, Madurai	1
2.	Vernalis Systems	6
3.	Zoho Corporation, Chennai.	1

**Department of Mechanical Engineering:**

Programme	Company	No. of students	Date
Internship	M/s.Hyundai Motors, chennai	4	21.12.2015 - 23.12.2015.
In-plant Training	Thoothukudi Thermal Power Plant,	10	14.12.2015 - 18.12.2015
Inplant Training	Thoothukudi Thermal Power Plant,	8	07.12.2015 - 11.12.2015
Inplant Training	Suzlon Windfarm Services Ltd., Tirunelveli	1	21.12.2015 - 23.12.2015.
internship	M/s.Anugraha Valve Castings Ltd., Coimbatore	10	18 - 23.01.2015
Internship	Ramco Cements Limited,	5	15 - 20 .02.2016
In-plant Training	M/s.Mahalingam and company	6	14.12.2015- 18.12.2015
In-plant Training	M/s.Valli Industries, Hosur	2	14.12.2015- 18.12.2015
In-plant Training	RMP Alloys Pvt. Ltd., Coimbatore	5	14 -27 .12.2015
In-plant Training	Sterlite Copper, Tuticorin	1	07.12.2015 - 11.12.2015
In-plant Training	M/s.Valli Textile Mills, Sattur	1	9 - 15.12.2015
In-plant Training	M/s/ DCW, Sahupuram	1	07 - 14.12.2015

**Department of Electronics and Communication:**

Sl. No.	Name of company/Institute	No. of Students
1.	IISC, Bangalore	1
2.	Naveem Alarm Systems Pvt., Ltd	9
3.	Solartis, Madurai	1

\* **Faculty exchange and development** – Nil

\* **Research, Publication**

- College's collaboration with other agencies will make faculties in doing R&D Projects with various national/international funding agencies
- To publish their papers in various national/international journals..
- \* Consultancy, Extension – Consultancy services are provided by the faculty members of the department of Electrical and Electronics Engineering and Computer Science Engineering, Mechanical, civil, ECE, and E&I to various small scale industries in and around kovilpatti.

\* **Student placement**

- The college is accredited by TCS it is more useful for the students for placement in various MNCs
  - Department of CSE have signed MoU with IBM Centre of Excellence and CISCO Networking Academy which promotes placement..
  - Through our alumni's, our students are placed in MNC Companies.
- Any other, please specify Nil

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

Sl. No	Industry/Institution	Department	Year
1	Adroit CAD Solutions Pvt. LTD, Chennai	Mechanical	2014
2	NEST Industrial Academy, Chennai	Mechanical	2014
3	SIEMENS Industry Software India Pvt.LTD, Gurgoan Haryana	Mechanical	2014
4	Niva Engineering, Chennai	Mechanical	2014
5	Spime India Technologies Pvt ltd, 93/45,First Avenue,Indira Nagar, Adayar,Chennai-600 020.	CSE	2010
6	Cisco Networking Academy Regional Academy-Amirta Institute of Technology,Coimbatore.	CSE	2015
7	M/s. Edgate Technologies 68,15th cross 1st Block, R.T.Nagar, Bangalore-560	ECE	2009
8	CADENCE Design Systems Pvt Ltd. Plot No 57A,BandC Nodia Special Economic Zone(NSEZ), Noida-201305	ECE	2013
9	W.S. test systems,Bangalore	EEE	2007

Sl. No	Industry/Institution	Department	Year
10	Saravana global energy limited / Global power research institute, Cuddalore.	EEE	2015
11	SriSeshaa Technologies Pvt, Ltd. 4th Floor, Gokul Arcade, #2/2A, Sardar Patel Road, Adyar, Chennai – 600020 India.	IT	2013
12	ITIE Knowledge Solutions #280, 59th Cross, 17th C Main, 3rd Y Block, Rajajinagar, Bangalore – 560010	IT	2012
13	EMC2 Corporation KR Puram Marathahalli Ring Road, Mahadevapura, Doddanekundi Village, KR Puram Hobli, Bangalore 560048	IT	2008

MoUs have contributed in enhancing

- Curriculum Development process
- Technical skills and research works by conducting guest lecture / seminar by the industrial experts.
  - Placement activities.
  - Doing funded projects.

3.7.4 **Have the College industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities? Yes**

Sl. No.	Department	Name of the Lab	Funding Agency
1.	ECE	R&D Lab	IGCAR, Kalpak am
2.	EIE	Non Destructive Testing Lab	Board of Research in Nuclear Sciences
3.	CSE	R& D Lab	Department of Science and Technology
		AICTE Project Lab	AICTE
		DRDO Lab	Defense Research and Development Organisation
4.	EEE	Liquid Dielectrics Lab	Department of Science and Technology
5.	CMS	Research and Development lab	Board of Research in Nuclear Sciences
6.	Chemistry	Research and Development lab	Board of Research in Nuclear Sciences
7.	IT	Funded Project Lab	Indian Council for Medical Research (ICMR)

## **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 institution ensures the availability of the infrastructure, like buildings, class rooms, laboratory requirements, etc as per the norms laid by the AICTE, New Delhi and Anna University, Chennai.

At the end of every academic year the college planning committee organizes a meeting to figure out the requirements of the next academic year. The members of the committee are Principal, Director, Deans, HODs. This committee discusses and plans about the requirements for the next academic year. The requirements include class rooms, laboratories, furniture, consumables, etc. Based upon the committee's suggestion the college budget is prepared. The proposed requirements and budget are approved by the governing council. Approved budget is allocated to each department through finance committee. The construction of new buildings or extension of existing is executed by the department of Civil.

As on date all the departments have been functioning in separate blocks /buildings in which adequate facilities are provided. Each block/department has more than the required number of class rooms depending upon the number of programmes for that department. State-of-the-art laboratories to conduct practical courses as per the curriculum. Each department has its own computer centre, seminar hall, library, laboratories to facilitate R&D activities. These facilities are upgraded now and then as and when required to meet the current needs of academic programmes. These blocks are properly maintained by a central team of Estate Office.

#### **Optimal utilization**

The common facilities like auditorium and conference halls can be booked in advance and used for conducting conferences and workshops. Classrooms and auditorium are used to conduct value added course, certificate course, remedial classes, training and practice for various cultural events after class hours. Playground and sports facilities are accessible to the students and neighboring community (nearby schools and colleges) on prior request depending on their availability. Students utilize these facilities even after class hours. Infrastructure facilities are provided to conduct of IBPS exams, CAT Exam, Government Group examinations and for other competitive exams. Also the common laboratories like microprocessors, CAD/CAM design labs are shared between departments with scheduled time table.

#### **The college has the following facilities.**

- One common Auditorium with centralized Air conditioner
- IOB with ATM

- Post Office
- Dispensary in the College and Hostel
- Stores for purchasing stationeries
- Canteen - 2 Nos.
- TCP Cell
- Various Forums / Clubs for co-curricular and Extracurricular activities
- Photocopying facilities for students
- ETP solar steam cooking system, Solar lights etc
- Separate Hostel for Boys (2 Nos.) and Girls (1 No.)
- Transport (26 buses) for day scholars (both staff and students) from cities in and around the college
- Guest House
- Staff Quarters
- Petrol Bulk for college vehicles consumption
- Alumni Chamber with video conferencing
- Autonomous Block with CCTV
- Renewable energy construction

**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 HODs meeting is conducted to create or enhance the infrastructural facilities to meet the growing needs of the college in the Teaching-Learning process.

The recent initiatives taken by the college are given below:

1. Creation of new class room facilities
  - Extension of second floor in main block (1801.11 sq.m.)
  - Second floor construction in IT block (970.6 sq.m.)
  - Second floor construction in ECE block (1672.54 sq.m.)
2. Establishment of new laboratories
  - Civil department Laboratories like Survey lab, Concrete and High way Engineering lab, Soil lab, Environmental engineering lab
3. Establishment of business incubation centre in CSE
4. Establishment of smart class room.
  - All the department have been fully furnished smart class room.
5. Wifi Facility
  - To create interactive teaching learning environment.
6. Flipped Classroom

**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. All the Departments are sufficiently equipped with office room, common room and separate rest rooms for women students and staff.

**4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of students/staff with disabilities?**

Our College is made user friendly for the disabled by providing ramps, class rooms at ground floor, try cycle has been provided from the college for the disabled hostellers for their transport within the campus. There is no disabled student at present.

**4.1.5 How does the College cater to the residential requirements of students? Mention Capacity of the hostels and occupancy (to be given separately for men and women)**

To cater the comfortable living for students, our college is equipped with separate hostels for boys and girls. The hostel rooms are spacious and ventilated with 24 hours water supply & power supply. The college takes special efforts to ensure that the rooms and the common usage areas are maintained to provide a homely atmosphere for the students. The modernized kitchen is used for preparing food in hygienic manner.

**Accommodation facilities:**

**Table 4.2 Hostel Capacity and Occupancy Details**

S. No.	Name of the Hostel	No. of rooms	Capacity	No. of students residing
1	Boys Hostel – I	189 (triple room)	567	404
2	Boys Hostel - II	321 (single room)	321	280
3	Girls Hostel	250 (triple room)	750	702

**Facilities available in each hostel:**

**Table 4.3 Facilities Available in Each Hostel**

Academic	Recreation	Medical	Dining Hall	Other Facilities
<ul style="list-style-type: none"> <li>• Wi-Fi connectivity</li> <li>• Computer room with LAN connections and &amp; Internet Facility</li> <li>• Library</li> <li>• Magazines</li> </ul>	<ul style="list-style-type: none"> <li>• LCD T.V</li> <li>• Film Projector</li> <li>• Gymnasium</li> <li>• Indoor games</li> <li>• Outdoor games</li> </ul>	<ul style="list-style-type: none"> <li>• Dispensary</li> <li>• Lady Doctor with M.D Qualification</li> <li>• Nurses in 24*7</li> </ul>	<ul style="list-style-type: none"> <li>• Separate Dining Hall for Vegetarian and Non-Vegetarian</li> <li>• Mineral Water and R.O plant</li> <li>• Water Coolers</li> <li>• Instant Water Header for Drinking</li> </ul>	<ul style="list-style-type: none"> <li>• Intercom Facility all the rooms</li> <li>• Smart Card Pay Phone</li> <li>• CCTV camera</li> <li>• Visitors Hall</li> <li>• Water Heater</li> <li>• General store</li> <li>• Post office</li> <li>• Bank</li> </ul>

**Security:**

- Surveillance camera is available at the entrance of the hostel and all salient points. Watchmen and Gate- keepers are employed to monitor round the clock security.
- The college also arranges a safe and secure transportation service, through government agencies, during weekend and festival periods for hostellers, to reach their home safely.

**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?**

- Our College has a separate dispensary with two visiting doctor and residential nurses
- Medicines are provided at free of cost
- 24 X 7 Ambulance facility
- Medical camps for staff members are organized by the staff club
- Employees' state Insurance (ESI) is provided for all eligible staff members, however the remaining staff members are provided with group medical insurance.
- Group personal accident policy for students, teaching and non-teaching staff members
- Student accident welfare policy
- Amartya siksha yojana insurance policy for parents
- Hygienic food is provided both in the hostel and college
- The water purification plant is available in all the departments and hostels
- The canteen committee will periodically check the quality of food provided in the canteen

**4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?**

The table 4.4 depicts the sports facilities in the college

**Table 4.4 Sports Facilities**

S.No.	Facility	Quantity in Nos.
1	400 meters Athletic track	1
2	Football Ground	1
3	Hockey Ground	1
4	Volleyball Court	4
5	Tennis Court	2
6	Kabaddi Court	2
7	Ball Badminton Court	1
8	Basket Ball court	1

S.No.	Facility	Quantity in Nos.
9	16 Station Gym	1
10	Table tennis Board	2
11	Hand Ball Court	1
12	Gymnasium	1

The available facilities are utilized by the students at any time. The college will conduct sports competitions at various levels like, state, zone, and district.

Fine arts club encourages the students to take part in various intra & intercollegiate cultural festivals. This club is financially supported by the college. Every year fine arts week is celebrated to motivate and encourage the students to improve their cultural skills. Literary and Youth Welfare association motivates and guides the students to participate in inter collegiate competitions related to Elocution, Essay writing, Quiz, Verse writing and paper presentation to improve their communication skills and talents. Yoga club encourages students to do simple exercises and meditation in order to improve calmness of mind, promote intellectual sharpness and clarity of thinking.

#### **4.2 Library as a Learning Resource**

- ☞ Central Library which acts as the knowledge hub for the academic activities of our institution with a mission to provide knowledge gateway to the user community with the state of the art technologies.
- ☞ A fully air-conditioned modern Library building is housed in an area of around 3911 sq. m.
- ☞ An e - Library is equipped with the 171 Mbps bandwidth Internet connectivity for the users.
- ☞ All the library services have been automated on modern line and also Open Access System is being followed.
- ☞ Library is enabled with wi-fi technology and security systems with Closed Circuit Television System (CCTV).
- ☞ Library has Institutional Membership in DELNET.
- ☞ In addition to the well stocked Library, each branch of NEC have their own departmental Library to facilitate easy access to the Faculty, Students and Research Scholars.

**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?**

**A. Advisory Committee**

- i) Give the list of members of the Library Advisory Committee
- |                             |   |  |
|-----------------------------|---|--|
| Chairman                    | - | <b>Dr. Kn. K. S. K. Chockalingam</b><br>Director   |
| Secretary & Convener        | - | <b>Dr. S. Shanmugavel</b><br>Principal   |
| Member, Nominee of Faculty  | - | <b>Dr. S. Tamil Selvi</b><br>Professor & Head, ECE-PG  |
| Member                      | - | <b>Mr. K. Karunai Raghavan</b><br>Librarian  |
| External Member             | - | <b>Dr. M. Mandhirasalam</b><br>Librarian<br>Coimbatore Institute of Technology<br>Coimbatore – 641 014.<br>Tamilnadu, India. |
| Member, Nominee of Students | - | <b>Ms. S. Soundarya</b><br>III – Year, B.E. – E.C.E.   |
- ii) When is the library Advisory Committee Constituted - 2012
- iii) Any other relevant details - Nil

**B. Functions of the Committee:**

- i) What are the different functions of the Advisory Committee?
- To recommend collection development and information services
  - Policy Decisions
  - Forming of library rules and procedure
  - To address issues and grievances pertaining to library matters
  - To make the library student-friendly
- ii) How often does the Committee meet?  
Annual meeting / As and when Required
- iii) Any other relevant details. - Nil

**4.2.2. Provide details of the following:**

- |   |             |
|---|-------------|
| (i) Total area of the library (in Sq. Mts.) | 3911 sq. m. |
| (ii) Total Number of seating capacity       | 222 nos.    |
| General Reading Hall                        | : 144       |
| Reference Section I & II                    | : 20        |
| Personnel Belongs Reading Hall              | : 4         |
| News Paper Reading Hall                     | : 10        |
| Staff Reading Hall                          | : 8         |
| Question Bank Section                       | : 4         |

- Periodicals Section : 24  
 Project Section : 8
- (iii) Working Hours (on working days, on holidays, before examination days, during Examination days, during vacation)
- Weekdays : 08.30 A.M. – 07.30 P.M.  
 Saturdays : 09.00 A.M. – 06.00 P.M.  
 Sundays : 09.30 A.M. – 01.00 P.M.
- (iv) Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)
- ☞ The library has separate air conditioned reading halls for the Staff and students. It has a separate e-Library section, audio & video hall, reference section, general studies section, back volume section, book bank section, reprography section, periodicals section, project section, question bank section and personnel belongs reading hall.

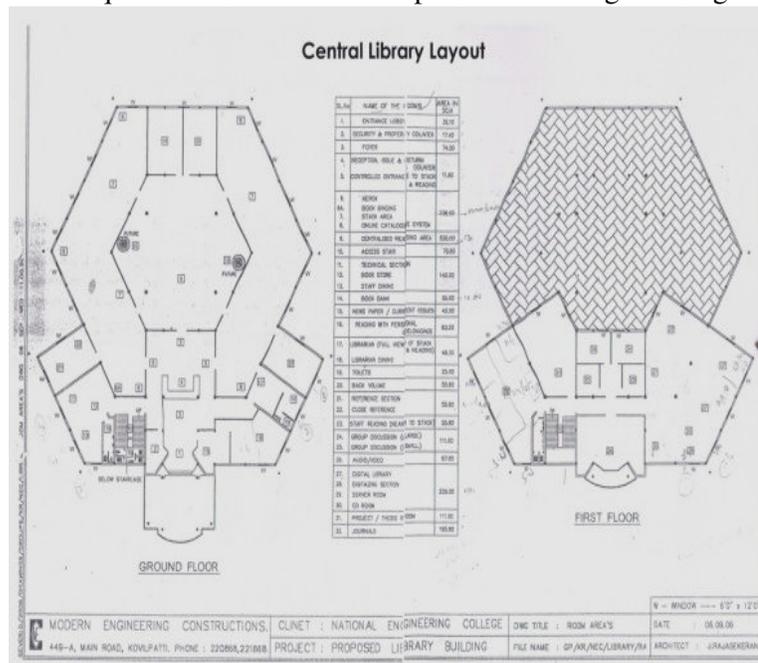


Figure 4.2 Library Layout

- (v) Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently able users and mode of access to collection:
- A copy of the floor plan is displayed at the notice board.
  - Direction boards are displayed for the users.
  - Fire extinguisher is available at the Central Library with proper instructions.

#### 4.2.2 Give details on the Library holdings

- a) Print Books : 55473 Volumes  
20965 Titles
- Reference Books : 993 Volumes  
921 Titles
- Book Bank Books : 3319 Volumes  
716 Titles
- Student's Projects (Since 2004) : 3408
- Back Volumes : 2715
- Journals - National : 87 nos.
- International : 49 nos.
- Technical Magazine : 27 nos.
- Dailies : 14 nos.
  
- b) Non Print (Microfiche, AV) : NPTEL Course kit 4TB
  
- c) Electronic (e-books, e-Journals)
  - e – Books : 875 full text e-books
  - e - Journals : 1. Elsevier (Science Direct)  
2. IEEE (ASPP)
  
- d) Special collection (eg. Text book, Reference books, standards, patents)
  - Books : 55473 Volumes  
20965 Titles
  - Reference Books : 993 Volumes  
921 Titles
  - Book Bank Books : 3319 Volumes  
716 Titles
  - Student's Projects (Since 2004) : 3408 Nos.
  - Back Volumes : 2715 Nos.
  - Proceedings : 54 Nos.

#### 4.2.4 What tools does the library deploy to provide access to the collection?

- i) Web OPAC:  
Online Public Access Catalogue (OPAC) has been provided to the user. The user can browse and retrieve the online information. Web OPAC module facilitates on the intranet environment. URL: <http://172.16.11.11/opac/>
  
- ii) Electronic Resource Management package for e-journals:  
“e-learning encompasses research, learning and teaching in the digital environment”, where students have access to courses offered online with instruction and course materials.

Central Library e-Learning Management System (e-LMS) has been introduced through <http://172.16.10.104/LocalGuru/> e- Learning Management System (e-LMS) that customizes the content for NPTEL Videos and College contents such as e-journals, e-books and Question bank etc. with e-LMS. We can access NPTEL Videos through a web interface from Library without connecting to internet. e-LMS contains a HTTP video streaming facility. NPTEL Videos are indexed in this LMS and can be searched with various keywords. e-LMS also provide On-line journal link (IEEE & Science Direct), e-Books, e-Question bank facilities.

- iii) Federated searching tools to search articles in multiple databases  
e-Learning Management System (e-LMS) has been introduced through <http://172.16.10.104/LocalGuru/>
- iv) Library Website  
College website - [www.nec.edu.in](http://www.nec.edu.in)
- v) In-house / remote access to e-publications:  
Unique ID number is given to the students and faculty to have direct access.

#### **4.2.3 To what extent is the ICT deployed in the library?**

##### **i) Library Automation**

The library services are fully automated using the standard library software package. All the transactions are fully computerized and all the documents are bar-coded. The bar-coded ID and smart card with Scanners are used for charging and discharging the documents.

ii) **Total Number of computers for public access** : 31 systems

##### **iii) Total Numbers of printers for public access**

Laser Printer	: 1 No.
Dot Matrix Printer	: 2 Nos.
Copier cum printer Machine	: 3 Nos.
Barcode Printer	: 1 No.

iv) **Internet band width speed** : 171 Mbps bandwidth connectivity

##### **v) Institutional Repository** : Yes

- Question Bank
- Conference Proceedings
- NEC Publications

vi) **Participation in Resource sharing networks/consortia (like INFLIBNET)**

- DELNET – Developing Library Network, New Delhi

**4.2.4 Provide details**

- i) Average number of walk-ins :300 – 400 per day
- ii) Average number of books issued/returned :250 – 300 per day
- iii) Ratio of library books to students enrolled :1 : 20
- iv) Average number of books added during last three years:2770 Books

**Table 4.5 Books added during last three years**

S.No.	Academic Year	Titles	Volumes	Amount Spent in Rs.
1	2012 – 2013	2496	4791	13,53,376.50
2	2013 – 2014	907	1923	5,62,714.50
3	2014 – 2015	1185	1596	7,18,457.00
4	2015 – 2016	1656	1986	8,78,783.00

- v) Average number of login to OPAC : 30 – 50 per day
- vi) Average number of login to e-resources : 30 – 75 per day
- vii) Average number of e-resources downloaded / printed : 25 – 50 per day
- viii) Number of information literacy trainings organized : 5
  1. NPTEL, IITM, Chennai sponsored one day workshop on “**National Programme on Technology Enhanced Learning**” on March 13, 2015 organized by Central Library, NEC.
  2. NPTEL, IITM, Chennai sponsored one day workshop on “**NPTEL Study Centre**” on April 24, 2015 organized by Central Library, NEC.
  3. Organised various Intra College Quiz competitions such as **Newspaper review** quiz competition, **Magazine review** quiz competition, **Book review** quiz competition during January 5 – 9, 2015 at Central Library, NEC.
  4. Organized **Spoken Tutorial workshops** and Online exams, IIT Bombay such as **C/C++ and Java** through online during 20.01.2015 and 11.02.2015 respectively at Central Library, NEC
  5. Conducted **Book Exhibition** in every year and during the books exhibitions new arrivals from distributors are displayed. Faculty members and HODs select the books for their departments.
  6. Organised Intra College Quiz competitions such as **Newspaper review** quiz competition, **Magazine review** quiz competition, **Book review** quiz competition during Feb 8 – 12, 2016 at Central Library, NEC.
  7. Organized **Spoken Tutorial workshops** and Online exams, IIT Bombay such as **SciLab, JAVA and C/C++** through online on 27.01.2016, 11.02.2016 and 15.02.2016 respectively at Central Library, NEC.

#### 4.2.5 Give details of the specialized services provided by the library

- i) **Manuscripts:** Ph.D theses report of faculty and research scholars and student project reports are available in Central Library to facilitate and encourage research.
- ii) **Reference:**
  - Ready reference services are offered to the students and faculty members for the retrieval of Information, articles and books. ( Average 2 – 5 queries per day)
  - Long range reference service is provided to the scholars like information, bibliographical details and articles for their research. (Average 2 – 4 queries per day)
  - Online reference service through e-mail and Intranet
- iii) **Reprography**

Reprography services are provided to the students and faculties.
- iv) **ILL (Inter Library Loan Service)**

Inter Library Loan Services are provided through Developing Library Network (DELNET), New Delhi
- v) **Information Deployment and Notification**

The information related to placements, competitive exams, and important current issues are displayed in the Library notice board and the information is also conveyed to the departments.
- vi) **WEBOPAC**

Web Online Public Access Catalogue (WEBOPAC) has been provided to the user. The user can browse and retrieve the online information. Web OPAC module facilitates on the intranet environment.
- vii) **Internet Access**

Free internet facility is provided to staff and students
- viii) **Downloads**

Staff and students are allowed to download documents on the current issues to enhance their wisdom and knowledge.
- ix) **Printouts**

Printing and scanning facilities are provided to the students and faculties.
- x) **Reading list / Bibliography compilation**

Guidance is given for bibliography compilation for the research scholars.
- xi) **In – house / remote access to e-resources**
  - In Central Library, e-Learning Management System (e-LMS) has been provided through <http://172.16.10.104/LocalGuru/>
  - Unique ID is given to the students and faculty to have direct access for e-publications.

**4.2.6 Provide details on the annual library budget and the amount spent for purchasing new books and journals.**

**Table 4.6 Annual Library Budget**

S.No	Academic Year	Amount Spent in Rs.	
		Books	Journals
1	2012 – 2013	15,00,000/-	15,00,000/-
2	2013 – 2014	20,00,000/-	20,00,000/-
3	2014 – 2015	10,00,000/-	15,00,000/-
4	2015 – 2016	20,00,000/-	20,00,000/-

**Table 4.7 Utilization of Library Budget**

Academic Year	Expenditures in Rs.				
	Books	Magazine/ Journals (for hard copy)	Magazine/ Journals (for soft copy)	Misc. Contents	Total
2010 – 2011	7,82,174.00	4,89,908.00	3,98,250.00	1,45,851.00	<b>18,16,183.00</b>
2011 – 2012	21,82,616.00	5,18,094.00	11,18,110.00	1,65,000.00	<b>39,83,820.00</b>
2012 – 2013	13,53,376.00	4,96,819.50	13,07,749.00	6,21,576.00	<b>37,79,520.50</b>
2013 – 2014	5,62,714.00	5,25,117.00	8,24,390.00	1,84,870.00	<b>20,97,091.00</b>
2014 – 2015	7,18,457.00	4,53,199.00	8,79,970.00	4,61,791.00	<b>25,13,417.00</b>
2015 – 2016	8,78,783.00	6,43,085.00	9,92,113.00	1,90,232.00	<b>27,04,213.00</b>

**4.2.6 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services.**

- Provision of suggestion box.
- Provision of register to file suggestions given by the users. Upon reception of suggestions, the suggestions are analysed by the committee members and suitable suggestions are then implemented.

**4.2.7 List the infrastructural development of the library over the last four years. (to procured equipments and furniture for Library infrastructural development in last four years)**

**Table 4.8 Library infrastructural development for the last four years**

S.No	Academic Year	Details of infrastructure	Amount spent in Rs.
1	2009 – 2010	New modern Library building	2,00,00,000.00
2		A/c, wi-fi connectivity etc..	17,78,536.00

S.No	Academic Year	Details of infrastructure	Amount spent in Rs.
3	2010 – 2011	CCTV, Reprography section, UPS etc..	19,40,680.00
4	2011 – 2012	IBM Server, Barcode Scanner, etc..	3,10,700.00
5	2012 – 2013	Projects, Periodicals and e-Library Sections, etc..	7,32,214.00
6	2014 – 2015	Establishment of Audio – Video section	2,98,127.00

**4.2.11 Did the library organize workshop/s for students, teachers, non-teaching staff of the College to facilitate better Library usage?**

1. NPTEL, IITM sponsored one day workshop on “**NPTEL Study Centre**” on April 24, 2015 organized by Central Library, NEC.
2. NPTEL, IITM sponsored one day workshop on “**National Programme on Technology Enhanced Learning**” on March 13, 2015 organized by Central Library, NEC.
3. Organized various **Intra College Quiz competitions** such as **Newspaper review** quiz, **Magazine review** quiz, **Book review** quiz competitions during January 5 – 9, 2015 at Central Library, NEC.
4. Organized Spoken Tutorial workshops and online exams, IIT Bombay such as C/C++ and Java through online during 20.01.2015 and 11.02.2015 respectively held at Central Library, NEC.
5. Conducted **Book Exhibition** in every year and during the books exhibitions new arrivals from distributors are displayed and faculty members & HODs select the books for their departments.
6. Organised Intra College Quiz competitions such as **Newspaper review** quiz competition, **Magazine review** quiz competition, **Book review** quiz competition during Feb 8 – 12, 2016 at Central Library, NEC.
7. Organized **Spoken Tutorial workshops** and Online exams, IIT Bombay such as **SciLab**, **JAVA** and **C/C++** through online on 27.01.2016, 11.02.2016 and 15.02.2016 respectively at Central Library, NEC

**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. IT policy outlines the responsible use of the Information Technology Infrastructure and all the users of IT infrastructure (Computers and the Network) of this college are subject to this policy.

**IT Service Management**

College has IT Service Management team and is maintained by Dept of Computer Science and Engineering. The common servers, networking

infrastructure and common licensed software and hardware are maintained by the team.

### Information Security and Network Security

Firewall with UTM throughput of 1G/10G (Sonicwall NSA 4600) is installed and all network zones are created and managed through this equipment. The Internet stream is regulated and policies are created in the firewall for students and staff for proper usage of Internet.

### Risk Management

Backup procedures have been established and carried out on the college servers to handle risk of information loss. Proper infrastructure (Dedicated Space, Air-conditioners) have been provided for IT Infrastructure.

### Software Asset Management

- Only licensed software or open source software are installed and maintained in the system.
- Microsoft Campus Agreement is being renewed for each academic year
- Windows base license are available for all the machines with windows operating system

### 4.3.2 Give details of the College’s computing facilities (hardware and software).

**Number of systems with configuration: 1088**

**Computer-student ratio:**

**Table 4.9 Computer-Student Ratio**

S.No	Department	Computer - Student Ratio
1	Mechanical Engineering	1:4
2	Science & Humanities	1:1
3	Information Technology	1:1
4	Computer Science & Engineering	1:1
5	Electronics & Communication Engineering	1:1
6	Electronics & Instrumentation Engineering	1:3
7	Electrical & Electronics Engineering	1:3

**Dedicated computing facility is shown in table 4.10**

**Table 4.10 Dedicated Computing Facility**

S.No	Department	Facility
1	Mechanical Engineering	R&D Lab for BRNS Project
2	Science & Humanities	<ul style="list-style-type: none"> <li>• Mathematics Lab for aptitude training of 1st year students</li> <li>• BEC online exam conducted by the students</li> </ul>
3	Information Technology	EMC UNISphere 1.6.0 (Information Storage and Management)
4	Computer Science & Engineering	HP Blade Center–HP BLC 3000

S.No	Department	Facility
5	Electronics & Communication	R&D Lab for IGCAR Project
6	Electronics & Instrumentation	R&D Lab for BRNS Project
7	Electrical & Electronics Engine	Research Simulation Lab

#### 4. LAN facility

- A strong network backbone of 1G as a structured deployment covering campus area of 163 acres (including hostel and staff quarters) with wired and wireless components.
- The Internet from Reliance Infocomm of dedicated speed 100Mbps (1:1) through optical fiber cables are available. The networking of all departments is made through Optical Fiber Cables (OFC) and networking of all computer systems within the departments is provided through CAT 6 Cables.

#### 5. Wifi facility - Campus wide Wifi connectivity

- Indoor Units : 186
- Outdoor Units : 3

#### 6. Propriety software / Open source softwares

**Table 4.11 List of Propriety software / Open source softwares**

Sl. No.	DEPARTMENT	Proprietary Software	Open Source Software
1	Mechanical Engineering	<b>CAD Lab:</b> 1) ANSYS 12.0 2) CATIA 3) SOLID WORKS 4) AUTO CAD <b>CAM Lab:</b> 1) ESPIRIT CAD/CAM SOFTWARE 2) SOLID CAM <b>Automation Lab:</b> 1) Automation Studio Advanced computing Lab: 1) TRNSYS17 <b>Energy Simulation Lab:</b> 1) ABAQUS 6.71 2) APM WIN MACHINE SOFTWARE	
2	Science & Humanities	1. Globerena (60 users licence - 1 No.) 2. Orell digital Language Lab (60 users licence - 1 No.)	

<b>Sl. No.</b>	<b>DEPARTMENT</b>	<b>Proprietary Software</b>	<b>Open Source Software</b>
3	Information Technology	<ol style="list-style-type: none"> <li>1. Windows XP Home Version</li> <li>2. Rational Suite Enterprise Studio</li> <li>3. Windows XP</li> <li>4. Oracle 9i (5 User)</li> <li>5. MS Office 2003</li> <li>6. Visual Studio .NET 2003</li> <li>7. SQL Server 2000 (5 User)</li> <li>8. Acrobat Writer</li> <li>9. Virus Scanner for Linux (11 User)</li> <li>10. Page Maker 7.0</li> <li>11. Photoshop CS2 Netsim Standard Version</li> </ol>	<ol style="list-style-type: none"> <li>1. Fedora13</li> <li>2. Fedora20.</li> <li>3. Ns -2.4</li> <li>4. Netbeans 7.4</li> <li>5. Java 1.7</li> <li>6. Mysql</li> <li>7. Android Eclipse</li> <li>8. Eclipse adt-bundle-windows-x86-20140321</li> </ol>
4	Computer Science & Engineering	<ol style="list-style-type: none"> <li>1. Windows str 7 SNGL OLPNL Academic legalization Get genuine.</li> <li>2. WIN 98 Licensed versions with media.</li> <li>3. Microsoft Back office Server.</li> <li>4. Matlab 5.2</li> <li>5. Corel Draw 8.</li> <li>6. Turbo C++ 3.0</li> <li>7. Borland C++ Builder 4</li> <li>8. Microsoft Windows Advanced Server Cal License</li> <li>9. Microsoft Windows Advanced Server Client License</li> <li>10. Microsoft Office 2003</li> <li>11. Microsoft Windows XP</li> <li>12. Novell Netware Ver6.0</li> <li>13. Norton Antivirus</li> </ol>	
5	Electronics & Communication Engineering	<ol style="list-style-type: none"> <li>1. Windows XP Software (Home Edition)</li> <li>2. MATLAB range of Software Release 14 – 5 user</li> <li>3. MultiSim – Education Ver.7</li> </ol>	<ol style="list-style-type: none"> <li>1. Fedora</li> <li>2. Red Hat Linux Enterprise</li> <li>3. Ubuntu</li> <li>4. Packet Tracer</li> <li>5. NS-2</li> </ol>

Sl. No.	DEPARTMENT	Proprietary Software	Open Source Software
		<ul style="list-style-type: none"> <li>- 3 user</li> <li>4. PCB Design Software 'Easy PC' – 1000 Pins with Auto Routing</li> <li>5. OrCAD Capture with OrCAD Pspice A/D - 5 user</li> <li>6. Xilinx ISE Foundation Series VLSI Design Software Ver.6.1i</li> <li>7. Xilinx ISE Foundation Series VLSI Design Software Ver.11.1i</li> <li>8. CADENCE</li> <li>9. IE3D Software</li> <li>10. Lab View 8.5</li> <li>11. Cross work software for MSP 430</li> <li>12. Cross work software for ARM 7</li> </ul>	<ul style="list-style-type: none"> <li>6. GCC Compiler</li> <li>7. Snort</li> <li>8. Kali Linux</li> <li>9. SCILAB</li> <li>10. Wireshark</li> </ul>
6	Electronics & Instrumentation Engineering	<ul style="list-style-type: none"> <li>1. MathCAD 12 and Vissim Pe.</li> <li>2. Lab VIEW 8.5,2011.</li> <li>3. KEIL software.</li> <li>4. COMSOL 4.2a</li> <li>5. Multisim 11.0</li> </ul>	<ul style="list-style-type: none"> <li>1. Circuit Maker.</li> <li>2. Xilinx ISE</li> <li>3. MPLab</li> <li>4. C,C++</li> <li>5. Siemens (PLC)</li> </ul>
7	Electrical & Electronics Engineering	<ul style="list-style-type: none"> <li>1. ETAP 6 module</li> <li>2. PSCAD/EMTDC</li> <li>3. AU POWER LAB</li> <li>4. MATH CAD &amp; VISSIM</li> <li>5. MATLAB(R2015)</li> </ul>	<ul style="list-style-type: none"> <li>1. MATLAB7.5, 7.10,7.11</li> <li>2. AUTOCAD</li> <li>3. PSIM</li> <li>4. ANSYS 12</li> <li>5. COMSOL 3.4</li> </ul>

7. Number of nodes/ computers with internet facility : 1088

8. Any Other

**Table 4.12 Availability of printers, scanners and copiers**

S.No	Department	No. of Printers	No. of Scanners	No. of Copiers
1	Mechanical Engineering	8	4	2
2	Science & Humanities	4	1	1
3	Information Technology	9	1	0
4	Computer Science & Engineering	15	5	2
5	Electronics & Communication Engineering	10	1	3
6	Electronics & Instrumentation Engineering	4	2	2
7	Electrical & Electronics Engineering	5	4	4

**4.3.3. What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

Our college in the near future is optimistic as far as the infrastructural up gradation is concerned. Our college has special committee for purchase of computing facilities like PC Systems, UPS, Printers, etc. The College intends to upgrade the PC's with latest configuration available in the market. Department of Computer Science & Engineering intends to replace the non functional parts with new parts. The consumables are maintained by the Department of Information Technology.

**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.**

Quality Improvement Cell (QIC) has been established at our College Central Library. Through QIC, the faculty and students are exposed to various resources such as NPTEL by IIT Madras, Spoken Tutorials by IIT Bombay and other video courses etc., for improvement of Teaching Learning experience.

NPTEL, IIT Madras is offering online certification courses through its portal <https://onlinecourses.nptel.ac.in>. There are 20 hour as well as 40 hour courses offered twice a year. NPTEL enable students to obtain certificates for special courses and enable the students employable in

the industry or pursue a suitable higher education programme. Spoken Tutorial Project of IIT Bombay (IITB) to empower the Faculty and Students in Free and Open Source Software (FOSS). The Spoken Tutorial project is the initiative of the "*Talk to a Teacher*" project of IIT, Bombay, funded by Ministry of Human Resource Development (MHRD), Government of India, under the National Mission on Education through Information and Communication Technology (NMEICT). The vision of this spoken tutorial project is to make every Indian switch to Open Source Software. The mission of this project is to reach out to the maximum number of students in colleges / institutes all over India and spread the use and learning of FOSS. Spoken Tutorial project is teaching Free and Open Source software (FOSS) through audio-visual tutorials namely 'Spoken Tutorials'. (<http://spoken-tutorial.org>)

**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.**

The ICT enabled class rooms facilities include a wireless interactive device, a document camera, LCD projector and magnetic / ceramic white board. The details of

ICT enabled class rooms in the college are listed in table 4.13

**Table 4.13 ICT enabled class rooms**

S.No.	Department	No. of ICT enabled class rooms
1	Mechanical Engineering	1
2	Science & Humanities	1
3	Information Technology	1
4	Computer Science & Engineering	2
5	Electronics & Communication Engineering	1
6	Electronics & Instrumentation Engineering	1
7	Electrical & Electronics Engineering	1
8	Alumni Chamber	1
9	Assembly Hall	1

The faculty members are utilizing the ICT enabled class rooms for handling their regular classes with prepared ICT enabled materials like animations, PPTs, demonstration, video lectures from IITs, etc. to increase the learning interest during and after the class hours.

**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?**

All faculties are provided with computers, internet connection, and wifi connection which enables them to prepare for computer aided teaching. Faculty members can easily and elegantly prepare their computer aided teaching content through smart boards. The ICT enabled classrooms motivates the faculty members for preparing computer aided teaching. The faculty members can upload their content in the e-LMS and it can be accessed through college intranet. Content preparation workshops are conducted for all faculty members of the college to initiate the content preparation process. The OBE experts of our college are also guide the newly joined faculty members.

**4.3.7 How are the computers and their accessories maintained? (AMC, etc.)**

All computers and accessories are maintained by the Department of Computer Science & Engineering. AMC is availed in few departments for printing and copying devices. Every year the requirements for consumables are getting from HODs and purchased and maintained by the Department of Information Technology.

**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. DELNET – Developing Library Network, New Delhi

**4.3.9 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College?**

Every year, Budget proposal is submitted by each department to Principal. The proposal includes purchase of equipment/devices/instrument / computer systems / software / consumables and maintenance of those. This will be discussed in the HOD's meeting and the management will sanction the budget to every department during the beginning of every academic year. Since every department has its own computer centre, the budget for purchasing and maintenance of computer systems/software and their up gradation will be met over from the department budget itself.

#### **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. Our college has a dedicated Estate Office for overseeing the maintenance of buildings, class-rooms and laboratories in addition to construction of small structures in the campus.

These are the few campus specific initiatives undertaken to improve the physical ambience which are as follows:

- Waste water from the campus is being recycled and it is used for the maintenance of 1500 trees in the campus through drip irrigation system.
- Rainwater harvesting facility is provided in all the buildings. The remaining rain water is disposed off through open storm water drain provided in the Campus.
- New tree plantations are also undertaken to make the campus green.
- All the street lights are being replaced with Solar street lights in a phased manner.
- Initiatives have also been taken to paint all the buildings in the Campus periodically.
- All the departments and hostels have been installed with independent RO Plants.
- In order to keep the campus secure and safe, surveillance cameras were installed in several locations inside the campus.
- Watchmen and Gate- keepers are employed to monitor round the clock security.

##### **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 building construction and maintenance is taken care by the department of Civil. The campus maintenance is taken care by the Estate Office. Both the departments have adequate number of Housekeeping staff for the maintenance of buildings, class rooms, laboratories, washrooms and furniture.

## **CRITERION V: STUDENT SUPPORT AND PROGRESSION**

### **5.1 Student Mentoring and Support**

#### **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 the student support and mentoring. Tutor scheme gives emotional support to the students and lessens their anxiety.

In this scheme, batches of about 20 students are assigned to each faculty of the institution. Tutor hour is allotted once in a week to discuss about their academic, personal problems, co-curricular and extracurricular activities. Moreover, the tutors are available all the time to support and counsel the students for even their personal problems.

The students are free to contact the tutor with a wide range of problems such as academic and also personal problems, home, family, relationships, depression, anxiety and loneliness.

The tutor addresses and responds to all the academic and non-academic challenges of the students.

The TCP cell extends its service to the students in career guidance counseling organizes lectures concerning career planning and invites companies for campus recruitment. TCP cell conducts need based competency building programmes and company specific training programme for the final year students and organizes training programmes on aptitude, Group discussion and interview techniques for prefinal year students to equip them to face campus recruitment. Also, it organizes career awareness programmes for second year students to choose their right careers. In addition to that, it organizes inplant training, communicative English course for the students.

#### **5.1.2 What provisions exist for academic mentoring apart from classroom work?**

Apart from classroom interactions, there are ample opportunities for the students to develop and grow in their academic and other related fields.

- The departments/institute, various clubs frequently organize national and international level seminars, conferences, paper presentations, project exhibitions where the students get opportunities to interact with experts in their respective fields in the subject.
- The Alumni Association has been meeting from time to time to provide a platform to the students to come in contact with their seniors who are working in different spheres.

- A dedicated alumni chamber has been constructed and used to organize guest lectures, webinars with distinguished alumni through which the students can update their knowledge in their respective areas. These interactions help the students prepare themselves as per demand in the job market.
- The departments also arrange and organize special lectures/workshops, symposiums, conferences which also help the students to develop and grow.

**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.**

The college has several such schemes wherein the students get opportunities for personal enhancement and growth. The Training, Counseling and Placement Cell provide guidance and counseling facilities to the students. The cell organizes special lectures and workshops relating to soft skills and personality development. It also makes arrangements for preparing the students for job market by making them learn employability skills. Career development are being conducted every week for pre final year students by professional trainers to enhance their soft skills. Periodically, the departments are organizing group discussions, mock interviews to motivate them to face interviews and to improve their confidence level.

**5.1.4 Does the College publish its updated prospectus and handbook annually? If yes, what are the activities / information included / provided to students through these documents? Is there a provision for online access?**

Yes, the institution publishes its updated handbook every year in the name of bulletin by showing its salient features.

**Bulletin:** An updated revised bulletin is published annually and is provided to the students every year. It covers the following aspects

- Brief history about institution
- Management
- Infrastructure
- Programme details (UG & PG)
- Brief introduction about Departments & Laboratories
- Administrative rules and regulations
- Information about Library
- Training and placement cell and its related activities
- Examination cell
- Co-curricular and Extracurricular activities
- Hostel facilities
- General facilities like stores, canteen, post office etc.,
- Various Scholarship details

- Academic related committees
- Professional societies like ISTE Student chapter, CSI, IEEE, IE(I) etc.,
- Website details for online access

The institute implements the programs as published in the prospectus. Any changes in infrastructure or staff, system and process if made are mentioned in prospectus. Shortcomings if noticed are madeup.

**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.**

- Prof.S.Kannappan Memorial Scholarship for academically excellent and economically poor students. Every year one student selected from I - year for this scholarship and financial assistance will be provided to the students for a period of 4 years.
- Alumni Association of the College is also providing scholarships to the needy students.
- College is providing free Education to a student, V.Ashok Kumar, (Department of Mechanical Engineeing) son of Late. R.Vetrivel, Sub Inspector of Alwarkuruchi Police Station who was killed by gangsters. The college offers education entirely at free of cost to the student which includes college fees, hostel fees, mess fees etc., for the total worth of Rs.6 Lakhs.

**5.1.6 What percentage of students receives financial assistance from state government, central government and other national agencies?**

- State and Central government offers scholarships for students and the students avail the same.
- Fee waiver scheme scholarships will be awarded by the state government
- The student belonging to SC/ST/OBC categories avails scholarship/freeships like Adi Dravidar Welfare Loan, Chief Ministry Merit Award from state government
- Students get scholarships from other organizations for mine, beedi and cinema workers and also scholarships are provided for the disabled students.

**Academic year 2012-2013**

Sl. No.	Name of the Scholarship	Total No. of Students	Amount (Rs.)
1	Community ScholarshipBC/MBC/DNC	538	23,70,273
2	Community ScholarshipSC/ST	178	1,93,24,00

3	Higher Education Special Scholarship for SC/ST Students	22	1,76,000
4	Scholarship for wards of Beedi/LSD workers	39	3,12,000
5	Tamil Nadu Educational Trust Merit Scholarship	01	5,500
6	Chief Minister Merit Award for SC/ST Merit Students	05	15,000
7	Merit cum Means Scholarship for Minortiy Students	10	2,29,000
8	Scholarship to the Students studied +2 in Municipal Schools	02	65,525
9	Disabled students scholarship	01	3,500
<b>Total Nos. &amp; Percentage of students receiving scholarship</b>		<b>796/1695 = 46.96%</b>	<b>51,09,198</b>

**Academic year 2013-2014**

Sl. No.	Name of the Scholarship	Total No. of Students	Amount (Rs.)
1	Community Scholarship BC/MBC/DNC	514	33,00,820
2	Community Scholarship SC/ST/SCC	212	23,15,825
3	SC/ST/SCC - Course Fee (SCC Amount to be received Rs.2,30,000/-)	212	90,77,000
4	Higher Education Special Scholarship for SC/ST Students	28	2,24,000
5	Scholarship for wards of Beedi/LSD workers ( To be Received)	53	4,24,000
6	Tamil Nadu Educational Trust Merit Scholarship	01	5,500
7	Chief Minister Merit Award for SC/ST Merit Students	11	33,000
8	Merit cum Means Scholarship for Minortiy Students	08	1,60,000
9	Scholarship to the Students studied +2 in Municipal Schools	02	80,000
10	Disabled students scholarship	01	3500
<b>Total Nos. &amp; Percentage of students receiving scholarship</b>		<b>1042/1786 =58.34%</b>	<b>1,56,23,645</b>

**Academic year 2014-2015**

<b>Sl. No.</b>	<b>Name of the Scholarship</b>	<b>Total No. of Students</b>	<b>Amount (Rs.)</b>
1	Community Scholarship BC/MBC/DNC	581	35,82,070
2	Community Scholarship SC/ST/SCC	228	23,83,125
3	SC/ST/SCC - Course Fee	228	98,05,500
3	Higher Education Special Scholarship for SC/ST Students	24	1,92,000
4	Scholarship for wards of Beedi /LSD workers (To be received)	46	3,68,000
5	Tamil Nadu Educational Trust Merit Scholarship	01	6,000
6	Chief Minister Merit Award for SC/ST Merit Students	12	36,000
7	Merit cum Means Scholarship for Minority Students	05	1,00,000
8	Scholarship to the Students studied +2 in Municipal Schools	01	34,000
<b>Total Nos. &amp; Percentage of students receiving scholarship</b>		<b>1126/1865 = 60.37%</b>	<b>1,65,06,695</b>

**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?**

The approval has to be obtained from AICTE, New Delhi to admit foreign students. If any student is admitted in the further upcoming years, necessary steps will be taken to get the approval from AICTE. So far no students from foreign countries evinced interest in getting admitted in our college. But the college since its inception has been catering to the needs of rural students and from Tamilnadu and neighbouring states.

**5.1.8 What types of support services are available for**

- \* overseas students
- \* physically challenged / differently abled students
- \* SC/ST, OBC and economically weaker sections
- \* students to participate in various competitions/conferences in India and abroad
- \* Health centre, health insurance etc.
- \* skill development (spoken English, computer literacy, etc.,)
- \* performance enhancement for slow learners / students who are at risk of failure and dropouts

- \* Exposure of students to other institutions of higher learning/ corporates/business houses, etc.
- \* publication of student magazines

**Overseas students:** The exclusive support services are not generated for the overseas students at present because there are no overseas students. The College is located in the interior region to educate the rural students.

#### **Students with physical disabilities**

- The institution is sensitive to the needs of the physically disabled students. The students belonging to differently-abled category are supported through various support services.
- Bank loans are facilitated for students to procure specially modified transportation system.
- Ramp type staircase arrangement is provided in every department for physically disabled students.

#### **SC/ST /OBC and economically weaker sections**

- The students belonging to SC/ST/OBC avail the Scholarship / freeship as provided by the Government.
- Economically weaker students are encouraged and supported by fee waiver scheme. Institute has Book bank facility for the SC/ST students. By this scheme, Library issue additional books/references to those students.

#### **Students to participate in various competitions/conferences in India and abroad**

The students are allowed to other colleges inside and outside the state to participate in various competitions. For that, on duty, technical help is provided by the college. Seminar / Workshops, Symposiums, Paper Presentations, Presentation on Communication skill development, motivational lectures by expert faculty are arranged by the concerned departments of the college and also by various clubs of the college for the benefit of the students . The usage of internet facilities for research journals is made available. This helps the students to keep in touch with the recent developments. Students are allowed for summer internship programmes conducted by IITs, universities and also students are allowed to industrial projects.

#### **Health centre, health insurance etc.**

Two Physicians Dr. Anand and Dr. Vanitha and two nurses have been appointed by the college. First aid facility is available in the college round the clock. The physicians will be available every day from evening 5 P.M. to 6 P.M. and the nurse will be available all the time in the college. Health

insurance of all students including their parents has been made by the college. 24 x 7 Ambulance facility is available.

**Skill development (spoken English, Computer literacy etc.)**

Training Counseling and Placement Cell (TCP) of the college organizes the communication skills, soft skills and personality development sessions on regular basis for students. Communication skill lectures were arranged for students with poor communications skill. All students have user level proficiency in MS-Office, DBMS and Basic programming languages.

Institution also organizes the IBM, CISCO networking academy is offering CCNA certification courses.

Institute organizes BEC course for English proficiency.

**Performance enhancement for slow learners / students who are at risk of failure and dropouts**

These students are given additional input like practices in basics of mathematics, extra classes for difficult subjects after the college working hours and on Saturdays. Many motivational lectures are organized for the students. Individual counseling by heads of the departments, class teachers and tutor is carried out.

**Exposures of students to other institution of higher learning/corporate/business house etc.**

- The students are encouraged to attend national and international seminars workshops and symposia, conducted at various universities and research institutes.
- Guest lectures by eminent speakers are organized to help the students to keep pace with the recent developments in their subjects.
- Industrial visits are also helping them keep in touch with the latest developments.
- Industrial based trainings are organized by TCP of the college.
- Organizing coaching classes for competitive exams
- GATE exam preparation guidance by GATE forum of the college.
- IAS Academy.
- Entrepreneurship development cell.
- Institution organizes training session for the guidance for various government competitive exams.

**Publication of student magazines:**

- Magazines are published by the respective department associations during the functions like Symposium, workshops every year.
- Magazines are also published by the various clubs during the functions every year. The college provides opportunities to the students to publish their ideas and understanding in different forms. Students are encouraged

in this direction in the following forms

- Students are given the required motivation and conceptual help for preparing technical papers for National level paper contests
- Financial support is also accorded by the college as per norms
- College website depicts the activities and achievements
- Working models are displayed by the students as a part of the celebrations

**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, coaching classes for the competitive exams like GATE, Civil Service Examinations are conducted in the departments which will be useful for the students to get qualified in the examinations.

- NEC IAS academy is functioning in the college to train the students for civil service exams. A group email id has been created for the academy and the materials for preparing the exams are being sent to the student members of the academy. Classes are conducted for civil service coaching on every Tuesdays and Thursdays. Also, motivation programmes, mock interviews are conducted at regular intervals.
- GATE forum has been created by the college and through the forum, regular gate coaching classes are conducted to the needy students by the college staffs and online model GATE exams are conducted frequently.

**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**
- \* **any other**
- Policies and strategies of the institution are framed in such a way to promote participation of students in extracurricular and co-curricular activities and to motivate maximum number of students to participate.
- The institution is providing financial support for transportation, entry fee payment to participate in the sports competitions and the students are given permission to practice for the competitions for the last two hours of the class.
- The institution has supportive environment to encourage students to participate in activities of their interest. The cultural and sports committees give opportunities to students to show their talents.

- The institution also promotes the participation of the students in inter-collegiate competitions. A part of entry fee for competitions and conveyance allowance is borne by the institution.

**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?**

Yes, there is structured mechanism for career guidance and placement of its students in the name of **Training Counseling and Placement Cell** under the head of Dean (TCP)

- TCP career counseling center renders guidance to the students in formal and informal ways. The cell organizes lectures on career opportunities.
- It invites companies for campus recruitment and sometimes students are sent to off campus interviews.
- Besides campus interview, TCP conducts aptitude tests, Personality development and inter personal communication workshops and entrepreneurship development programmes with external experts.
- Arranges inplant training to the industries during vacation.
- Recommends names of graduates for recruitment in various industries.
- Announces opportunities available for placement and higher studies and competitive exams.

**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).**

**For the Year 2012-2013:**

Sl. No.	Company Name	Date	CSE	IT	ECE	EEE	EIE	Mech	MCA	Total
1	Tata Consultancy Services, Chennai	31.10.2012	23	12	15	8	4	3	3	68
2	Vernails Systems Pvt.Ltd.,Chennai	22.09.2012							1	1
3	Zoho Services Development , Chennai	08.11.2012							2	2
4	Cogziant Technologies Services, Chennai	21.12.2012	1		1	2				4

Sl. No.	Company Name	Date	CSE	IT	ECE	EEE	EIE	Mech	MCA	Total
5	Sriram Value Services P. Ltd,Chennai	25.02.2013	1							1
6	Rishon Communication Technologies Pvt.Ltd.Nellai	12.03.2013		1						1
7	mCruncher,Malaysia	08.04.2013							2	2
8	Acliv Technologies, Bangalore.	14.04.2013	1	1						2
9	Solartis,Madurai	19.04.2013	1							1
10	Surprise Solutions, Chennai	20.04.2013		2						2
11	AUC Ventures,Chennai	22.04.2013							1	1
12	Mphasis,Bangalore	23.04.2013			1					1
13	Symantec Software Solutions Pvt.Ltd.,Chennai	24.04.2013			1					1
14	Reliance Communication, Chennai.	29.04.2013	2	4	2		2			10
15	Tessolve,Bangalore	24.05.2013								
			<b>29</b>	<b>20</b>	<b>20</b>	<b>10</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>97</b>

**For the Year 2013-14:**

Sl. No.	Company Name	Date	CSE	IT	ECE	EEE	EIE	Mech	MCA	Total
1	Tata Consultancy Services,Chennai	20.10.2013		3	7	1	5			16
2	Zoho Corporation , Chennai	28.09.2013	3						2	5
3	Solartis Technology Services Pvt.Ltd,Madurai	30.09.2013	4	2	1					7
4	mcruncher ,Malasiya	08.11.2013							3	3

Sl. No.	Company Name	Date	CSE	IT	ECE	EEE	EIE	Mech	MCA	Total
5	Cognizant Technology Solutions,Chennai	23.12.2013	5	4	2		1			12
6	Veryx Technologies Pvt.Ltd.,Chennai	28.12.2013	1							1
7	Infosys Limited	11.01.2014	3		2					5
8	Benchmark Broadcast System,Chennai	09.01.2014			2					2
9	Sri.Seshaa Technologies Pvt.Ltd,Chennai	22.01.2014		1						1
10	Fintek Solutions,Chennai	11.02.2014	3	4						7
11	Hexaware Technologies Limited,Chennai	12.03.2014		1	1	2				4
12	Invent Softlabs India Private Limited,Chennai	20.03.2014		2						2
13	Aqua Sub,Coimbatore	26.03.2014						35		35
14	L&T Infotech Limited,Chennai	28.03.2014	4	2	2		1			9
15	Shriram Transport Finance,Chennai	31.03.2014	1							1
16	Take Solutions,Chennai	04.04.2014	4							4
17	ECIL,Chennai	19.04.2014			1	1		2		4
18	HCL Technologies Limited-BSERV,Chennai	22.04.2014				1				1
19	Aspire Systems,Chennai	26.04.2014	1							1
20	FACE,Coimbatore	02.05.2014			2	1		2		5
21	Coastal Energen	02.05.2014				1		6		7

Sl. No.	Company Name	Date	CSE	IT	ECE	EEE	EIE	Mech	MCA	Total
	Private Limited,Tuticorin									
22	Tessolve Semi Conductors, Bangalore	07.05.2014			1	1	2			4
23	Cogzidel Technologies, Madurai	07.05.2014	2							2
24	iNautix Technologies India Pvt.Ltd,Chennai	23.05.2014	3							3
25	Chain System,Chennai	24.05.2014			1					1
26	Solartis Technology Services Pvt.Ltd,Madurai		1							1
27	Coastal Energen Private Limited,Tuticorin						6			6
28	Doven System Pvt Ltd,Chennai	21.07.2014		1		2			1	4
	<b>Total</b>		<b>35</b>	<b>20</b>	<b>22</b>	<b>10</b>	<b>15</b>	<b>45</b>	<b>6</b>	<b>153</b>

**For the Year 2014-15:**

Sl. No.	Company Name	Date	CSE	IT	ECE	EEE	EIE	Mech	MCA	Total
1	Tata Consultancy Services,Chennai	30.09.2014	11	9	17	8	5	5	1	56
2	Zoho Corporation , Chennai	02.08.2014	2							2
3	Solartis Technology Services Pvt.Ltd,Madurai	20.08.2014	6		2					8
4	VVDN Technologies	18.10.2014			3	1				4

Sl. No.	Company Name	Date	CSE	IT	ECE	EEE	EIE	Mech	MCA	Total
	Private Limited,Chennai									
5	Accurate Steel Forgings(INDIA) Limited,Chennai	25.10.2014						10		10
6	SRM Technologies,Chennai	12.12.2014	2							2
7	Qualite Technologies	15.12.2014	2							2
8	Cognizant Technologies	24.12.2014	9	7	5	8	5			34
9	Accenture	27.12.2014	3	2	3	8	3			19
10	Maveric Systems	03.01.2015		1						1
11	IBM	06.01.2015	1		3	2				6
12	Infosys	20.01.2015	5	2	12	7				26
13	Wipro Limited,	23.01.2015							1	1
14	Adroit CAD Solutions Pvt Ltd,Chennai	09.02.2015						3		3
15	Tata Consultancy Services,(Off Campus)	28.02.2015						1		1
16	Tessolve Semiconductor Private Limited	07.03.2015			1	1				2
17	Fintex Solutions,Chennai	13.03.2015	1							1
18	Polaris Financial Limited,Chennai	21.03.2015	2	1	1					4
19	Niva Engineering,Padi,Chennai	21.03.2015						8		8
20	FACE,Coimbatore	31.03.2015			2	2				4
21	Sriveshaa Technologies Pvt. Ltd,Chennai	02.04.2015		2					3	5
22	BizPlus ,Chennai	04.04.2015		2					2	4
23	Poornam Info Vision,Cochin	09.04.2015	1							1

Sl. No.	Company Name	Date	CSE	IT	ECE	EEE	EIE	Mech	MCA	Total
24	Ampal Technologies,Chennai	21.04.2015	2							2
25	Broadcom,Bangalore	08.05.2015	1							1
26	Tessolve Semiconductor Private Limited	11.05.2015	1							1
27	Vaavel Technologies,Chennai	16.05.2015			1				1	2
28	Dhyan Infotech,Chennai	16.05.2015	1							1
29	Kumaran Systems,Chennai	22.05.2015	1							1
30	Jilaba Software Services Private Limited	27.05.2015			3					3
31	Kone Elevators,Chennai							2		2
32	Abex Design Centre,Coimbatore							1		1
33	Excel Die Coasting ,Chennai							2		2
34	Valli Industries,Hosur							2		2
35	Minerva Boilers,Chennai							2		2
36	Indfurr Superheat Furnaces							2		2
37	SL Lumax Engineering							5		5
	Total		51	26	53	37	13	43	8	231

**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 the registered alumni association which was started in the year 1991.

- Institute conducts alumni meet every year.
- Institute has alumni data base and separate website.

- Institute invites alumni to give the guest lecturers & interact with students to enhance the knowledge & skills of the students.
- Students as well as alumni are registered in alumni websites which helps them to interact with the distinguished alumni and to know about the activities of alumni association.
- Alumni association provides library facilities, computer lab facilities for hostel students and financial aids to the students.
- Alumni Association Chamber has been constructed and inaugurated on 03-08-14. The Chamber was opened by Thiru K.R. Arunachalam, Member, Managing Committee of the college, in the presence of Dr.S.Shanmugavel, Principal, and Dr.Kn. K S K Chockalingam, Director and Office bearers of association. The chamber is fully established with air conditioned video conference facility with the approximate seating capacity of 100.
- On 09-08-2014, the passed out students of 1989 celebrated Reunion function in the college. Totally 105 alumni of 1989 batch attended the reunion function. The reunion function was presided by K.Ramasamy, Chairman in the presence of Thiru K.R. Arunachalam, Member Managing Committee, Director and Principal. The alumni members honored the eminent guest and faculty members. Also, they shared their views and past memories.
- They have donated books worth of one lakh and projector for the association. Also, they launched a dedicated website for the association.
- NEC alumni association, Chennai Chapter is functioning in active manner and members are promoting very good support for the association. NEC alumni association, Chennai chapter is organizing meetings regularly. Recently, Mr.R.Rajasekar and Mr Johnson organized the Chennai chapter meeting. Around 200 members attended and they shared their views.
- NEC alumni association, UAE Chapter meeting held during the year 2014. Around 60 members attended and they shared their views.
- NEC Alumni Meet-Middle East, Kuwait Chapter meeting held on 5<sup>th</sup> February 2015. Thiru K.R.Krishnamurthy, Member, Managing Committee of our College was the chiefguest for the function.
- Entrepreneurship Awareness Camp (EAC) was organized for our students on 29-12-14.
- Android Application Developments Contest was conducted for students on 31-12-14. 46 students participated.
- Alumni Induction programme was organized every year. The final year students are registered as life member of the Alumni Association. In the induction programme, final year students were rewarded by certificates for their performance in academic, co curricular and extracurricular.
- Our alumni Mr.V.Herald Wilson Raja Mech 1996 and Mr.V.Seenivasagam CSE 1989 came for placement drive and selected few students for their organization. Apart from that, many alumni members have given their support towards placement activities of our college.

**5.1.14 Does the College have a student grievance redressal cell? Give details of the nature of grievances reported and how they were redressed.**

Yes, it was functioning with the name of complaints and Redressed from 2004 onwards. Also, our college has a tutor system for guidance and counseling. The students can approach the tutors for any redressal of grievances. Also, the performance of the students was communicated to the parents after every internal assessment. PTA Meeting is arranged once in a semester for conveying the performance of the students to parents. Because of the above mentioned actions, there are no grievance reports received till date.

**5.1.15 Does the College have a cell and mechanism to resolve issues of sexual harassment?**

Yes.

**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” Institute has anti ranging committee which will be framed every year. The committee takes preventive actions to avoid ragging. The Committee gives wide publicity to related acts, statutes and punishments. No instance is reported. The Committee members details are given below for the recent year(2015-16):

**Anti-Ragging Committee**

Sl. No.	Name	Position (Chairman/ Member)	Professional Designation	Address
1	Dr.S.Shanmugavel	Chairman	Principal	Principal, National Engineering College, K.R.Nagar, Kovilpatti – 628 503
2.	Dr.M.A.Neelakantan	Member	HOD/S&H	HOD/S&H Dept. National Engg. College, K.R.Nagar, Kovilpatti – 628 503
3.	Dr.D.Manimegalai	Member	HOD/IT	HOD/IT National Engg. College, K.R.Nagar, Kovilpatti – 628 503

<b>Sl. No.</b>	<b>Name</b>	<b>Position (Chairman/ Member)</b>	<b>Professional Designation</b>	<b>Address</b>
4	Mr.M.Ravindran	Member	Police Inspector	Sub Inspector of Police, Kalugumalai Police Station, Kalugumalai, Tuticorin-District
5	Mr.S.Nagendran	Member	Taluk Officer	Dy.Tahsildar, S/O Shunmuga Reddiyar, No.57,Fourth Street, Jothinagar, Kovilpatti -628 501
6	Mr.I.Rathinakumar	Member	Official of NGO	Jaycee Club President No.53, 3 <sup>rd</sup> Chekkadi Street Kovilpatti – 628 501
7	Mr.K.Selvam	Member	Representatives of Parents	361A/6, Srinivasa Nagar Near Athaikondan School Kovilpatti – 628 502
8	Mr.K.Mariappan	Member	Representatives of Parents	43/I-5 A, Pasuvanthannai Road East, 5 <sup>th</sup> Street, Kovilpatti – 628 501
9.	Miss.G.Chandrakala	Member	Representatives of Students	IV year CSE, NEC, (1232/6, 6th street, Rajiv Nagar, Kovilpatti)
10	Miss.S.Soundarya	Member	Representatives of Students	III Year ECE. 'B', NEC (9/274, South street, .Reddiapatti, Virudhunagar, Tamil Nadu – 626118)

Sl. No.	Name	Position (Chairman/Member)	Professional Designation	Address
11	Mr.K.Vijaya Narayanan	Member	Representatives of Students	III year Mech. 'B', NEC(116/54, Gandhi Nagar, Nehru Street, Kovilpatti – 628502)
12.	Mr.K.Swaminathan	Member	Representatives of Students	II Year – Civil, NEC (2/ 38 , North Street, R,Navaneethakrish napuram, V.K.Pudur (Taluk), Keelakalangal(PO) , Uthumalai(Via) Tirunelveli - 627 860
13	Mr.M.Vel Murugesan	Member	Representatives of Students Category	I year EEE 'A', NEC, 264/4, Puthumani Street, Kasitharmam, Tenkasi TK,Tirunelveli Dt.
14	Mr.V.Balakrishnan	Member	Representative Non-Teaching	Lab.Technician/S& H Dept.,National Engineering College, K.R.Nagar

**Anti-Ragging Squad**

Sl. No.	Name	Position (Chairman/Member)	Professional Designation	Address
1	Dr.S.Shanmugavel	Chairman	Principal	Principal, National Engineering College, K.R.Nagar, Kovilpatti – 628 503
2	Dr.K.Kalidas Murugavel	Member	HOD/Mech	HOD/Mech, National Engineering College, K.R.Nagar, Kovilpatti – 628

				503
3	Dr.K.G.Srinivasagan	Member	Dean/TCP	HOD/CSE PG, Dept. National Engg. College, K.R.Nagar, Kovilpatti - 628503
4	Mr.D.Venatkumar	Member	Asst.Prof.(SG)/Mech	Asst.Prof.(SG) Dept. of Mechanical Engg., National Engg. College, K.R.Nagar, Kovilpatti - 628503
5	Mr.C.Balamurugan	Member	Asst.Prof.(SG)/ECE	Asst.Prof.(SG) Dept. of ECE, National Engg. College, K.R.Nagar, Kovilpatti - 628503
6	Ms.M.Jayalakshmi	Member	Asst.Prof.(SG)/CSE	Asst.Prof.(SG) Dept. of CSE, National Engg. College, K.R.Nagar, Kovilpatti - 628503
7	Ms.P. Gomathy	Member	Asst.Prof./ S&H	Asst.Prof./Phy, Dept. of S&H, National Engg. College, K.R.Nagar, Kovilpatti - 628503
8	Mr.C.Maharaja	Member	Non-Teaching Faculty	Lab Asst./S&H, Dept. of S&H, National Engg. College, K.R.Nagar, Kovilpatti - 628503

**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. ?**

The college is having industrial interaction through Memorandum of Understanding (MoU) with industries like CISCO, IBM (Centre of

Excellence), W.S. Test systems to upgrade and to ensure the development of the students for the employability of the students. Suggestions from recruiters, alumni members & other stakeholders are considered in modifying the syllabus by the Academic Council members and Board of Studies members. Parent's suggestions are also considered in community orientation. Subject experts from industries are appointed as members of Academic committees like Board of studies, Academic Council, who participate in the process of framing and fine tuning the curriculum/ syllabi. Research and Development cell (R&D) will motivate and promote the research activities.

**5.1.18 What special schemes/mechanisms are in place to motivate students for participation in extracurricular activities such as sports, cultural events, etc?**

Policies and strategies of the institution to promote participation of students in extracurricular and co-curricular activities are to motivate maximum number of students to participate.

- Provide financial support for transportation, entry fee payment and permission to remain absent from classes for the last two hours of the class without affecting their academic performance.

The institution has supportive environment to encourage students to participate in activities of their interest. The clubs are Fine-arts Club, Literary Club, Quiz Club, NCC, NSS, Rotaract club, YRC, JC, and RRC. The aims of the club is to explore the hidden talents of the students and offer Opportunities to expose the potential in them. The clubs are organizing events frequently to explore the students ideas and knowledge. These clubs are intimating about various intra, inter college competitions and allowing the students to participate in the competitions.

Sports committees give opportunities to students to display their talents and organizing various inter college, Intra College, state level, National level competitions.

- The institution also promotes the participation of the students in inter-collegiate competitions. A part of entry fee for competitions and conveyance allowance is borne by the institution.
- College T-shirts are given to those representing college.

**5.1.19 How does the College ensure participation of women in 'intra' and 'inter' institutional sports competitions and cultural activities? Provides details of sports and cultural activities in which such efforts were made?**

The women students are allowed to participate in various inter and intra college competitions with separate women coach (Lady Physical Directress)

Separate lay fields are arranged for women,

1. Tennis
2. Badminton

3. Throw Ball

4. Volley Ball.

- Conduct of separate selection trials for women to pick up talented players for participation at Inter Collegiate tournaments.
- Providing separate uniform for participation in major tournaments.
- Separate athletic individual events.
- Presentation of individual women championship every year.
- Encouragement for participating inter collegiate tournaments like Games, Athletics etc.,
- Presenting meritorious certificates and prizes to the winners and runners in intramural competitions for women on COLLEGE ANNUAL SPORTS DAY celebrations.
- Providing T.A, D.A and Sports Uniform to the College team players for participation at inter-collegiate and other recognized tournaments
- Organizing inter-collegiate tournaments from time to time.

<b>Sports Activities year 2012-2013</b>				
<b>Anna university Zone – 18 Tournament</b>				
1	Table Tennis(Women)	August 2012	Dr.Sivanthi adithanar College of Engg , Tiruchendur	Silver Medal
2.	Basket-Ball (Women)	September 2012	P.S.N. College of Engineering, Melathadiyoor	Bronze Medal

<b>Sports Activities year 2013-2014</b>				
<b>Anna university Zone-18 Tournament</b>				
<b>S.No</b>	<b>Events</b>	<b>Date</b>	<b>Venue</b>	<b>Results</b>
1.	Ball-Badminton (women)	September 2013	V.O.C College of Engineering, Turicorin	silver Medal
2.	Basket-Ball (Women)	October 2013	<b>MEPCO College of Engineering,</b> Sivakasi	Bronze Medal
3.	Table Tennis(Women)	October 2013	<b>Anna University Tirunelveli Region</b>	IV Place

<b>Sports Activities year 2014-2015</b>				
<b>Anna university Zone-18 Tournament</b>				
<b>S.No</b>	<b>Events</b>	<b>Date</b>	<b>Venue</b>	<b>Results</b>
1.	Table Tennis(Women)	September 2014	Dr.sivanthi Adithar College of Engineering, Thiruchendur	Bronze Medal

2.	Ball-Badminton (women)	December 2014	VV. College of Engineering, Thisayanvillai	silver Medal
<b>Anna university Inter Zone Tournament</b>				
1.	Ball-Badminton (women)	January 2015	Excel Engineering College, Namakkal	Participated

## 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?)**

Department	Batch	Program Wise Success Rate for the Last 4 years			
		No. of students Admitted	No. of Students Reached Final Year	No. of Students Passed	Pass Percentage
Mechanical Engineering	2008-12	132	132	121	91.66
	2009-13	130	130	125	96.15
	2010-14	139	139	130	93.5
	2011-15	147	147	131	89.11
Computer Science Engineering	2008-12	132	132	126	95.45
	2009-13	132	131	122	93.12
	2010-14	138	138	126	91.30
	2011-15	147	147	124	84.35
Information Technology	2008-12	59	64	62	96.87
	2009-13	55	63	60	95.23
	2010-14	66	65	64	98.46
	2011-15	71	69	60	86.95
Electrical & Electronics Engineering	2008-12	66	66	64	96.96
	2009-13	64	63	60	95.24
	2010-14	70	69	64	92.75
	2011-15	144	143	131	91.61
Electronics & Instrumentation Engineering	2008-12	65	65	65	100
	2009-13	65	65	65	100
	2010-14	69	69	68	98.55
	2011-15	72	72	65	90.27
Electronics & Communication Engineering	2008-12	131	131	114	87.02
	2009-13	129	129	127	98.45
	2010-14	142	142	129	90.84

Department	Batch	Program Wise Success Rate for the Last 4 years			
		No. of students Admitted	No. of Students Reached Final Year	No. of Students Passed	Pass Percentage
tion Engineering	2011-15	143	143	130	90.91
Master of Computer Applications	2009-12	49+10	59	56	94.92
	2010-13	54	54	53	98.14
	2011-14	54	54	53	98.14
	2012-15	45	45	44	97.78
M.E-Computer Science Engineering	2010-12	18	18	18	100
	2011-13	26	26	26	100
	2012-14	25	25	25	100
	2013-15	24	24	24	100
M.E-High Voltage Engineering	2010-12	18	18	18	100
	2011-13	18	18	18	100
	2012-14	18	18	18	100
	2013-15	17	17	17	100
M.E-Manufacturing Engineering	2010-12	14	14	14	100
	2011-13	18	18	18	100
	2012-14	18	14	14	100
	2013-15	18	04	04	100
M.E-Energy Engineering	2010-12	10	10	10	100
	2011-13	18	17	17	100
	2012-14	18	08	08	100
	2013-15	18	08	08	100
M.E-Communication System	2010-12	18	18	18	100
	2011-13	18	18	18	100
	2012-14	18	18	18	100
	2013-15	18	17	17	100
M.E-Embedded Systems Technologies	2010-12	-	-	-	-
	2011-13	-	-	-	-
	2012-14	18	18	18	100
	2013-15	18	18	13	100
M.E-Control & Instrumenta	2010-12	-	-	-	-
	2011-13	18	17	16	94.11
	2012-14	18	18	18	100

Department	Batch	Program Wise Success Rate for the Last 4 years			
		No. of students Admitted	No. of Students Reached Final Year	No. of Students Passed	Pass Percentage
tion	2013-15	18	18	18	100
M.E- Communica tion Networking	2010-12	18	18	18	100
	2011-13	18	18	18	100
	2012-14	18	16	16	100
	2013-15	18	16	16	100

**5.2.2 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the observed trends.**

Department	Batch	Number of Students progressing to Higher Education for the Last 4 years				
		M.E	M.B. A	M.S	P.G Diploma	Total
Mechanical Engineering	2008-12	6	-	2	-	8
	2009-13	4	1	-	-	5
	2010-14	3	-	-	-	3
	2011-15	3	-	-	1	4
Computer Science Engineering	2008-12	10	1	1	-	12
	2009-13	12	-	-	-	12
	2010-14	10	2	-	-	12
	2011-15	8	1	-	-	9
Information Technology	2008-12	5	2	-	7	5
	2009-13	5	-	-	5	5
	2010-14	2	7	-	9	2
	2011-15	8	-	-	8	8
Electrical & Electronics Engineering	2008-12	3	-	-	-	3
	2009-13	5	2	-	-	7
	2010-14	8	4	-	-	12
	2011-15	5	2	1	-	8
Electronics & Instrumentation Engineering	2008-12	3	-	-	-	3
	2009-13	6	1	-	-	7
	2010-14	4	-	-	-	4
	2011-15	2	-	-	-	2
Electronics &	2008-12	23	-	2	-	25

Department	Batch	Number of Students progressing to Higher Education for the Last 4 years				
		M.E	M.B. A	M.S	P.G Diploma	Total
Communication Engineering	2009-13	27	1	-	-	28
	2010-14	25	-	4	-	29
	2011-15	6	-	1	-	7

**5.2.3 What is the Programme-wise completion rate/dropout rate within the time span as stipulated by the College/University?**

The average dropout rate is below 2 percent in some departments due to their own willingness because of their personal problems.

**5.2.4. What is the number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.**

Department	Batch	Competitive Exams Cleared			
		GATE	CAT	MAT	No of Students
Mechanical Engineering	2008-12	-	-	-	-
	2009-13	-	-	-	-
	2010-14	-	-	-	-
	2011-15	2	-	1	3
Computer Science Engineering	2008-12	1	-	-	1
	2009-13	1	-	-	1
	2010-14	1	-	2	3
	2011-15	1	-	-	1
Electrical & Electronics Engineering	2008-12	3	-	-	3
	2009-13	2	1	-	3
	2010-14	2	3	-	5
	2011-15	-	-	-	-
Electronics & Instrumentation Engineering	2008-12	-	-	-	-
	2009-13	1	1	-	2
	2010-14	-	-	-	-
	2011-15	-	-	-	-
Electronics & Communication Engineering	2008-12	-	-	-	-
	2009-13	3	-	-	-
	2010-14	-	-	-	1
	2011-15	1	-	-	-

**5.2.5 Provide details regarding the number of Ph.D/D.Sc./D.Litt. theses submitted, accepted, resubmitted and rejected in the last four years.**

College has regular Ph.D admissions under Anna University. However, some of the faculties of the college are acting as supervisor/co-supervisor for the students admitted into the Various Universities like Anna University, Manonmaniam Sundaranar University.

The following departments are recognized research centres by the Anna University (state University)

- Mechanical Engineering
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Computer Science and Engineering
- Chemistry

**Details regarding the number of Ph.D. theses submitted, accepted in the last four years:**

S.No.	Year	No. of PhD Awarded	No. of Thesis submitted	No. of Thesis accepted
1.	2011	1	1	1
2.	2012	3	3	3
3.	2013	8	8	8
4.	2014	10	10	10
5.	2015	20	20	20

S.No.	Year	No. of Thesis submitted	No. of Thesis accepted awaiting viva voce
1.	2016	17	2

**5.3 Student Participation and Activities**

**5.3.1 List the range of sports and games, cultural and extracurricular activities available to students. Provide details of participation and program calendar.**

- The institute organize the sports like basketball, cricket, football, volley ball, chess, carom, table tennis, Tennis etc.,
- Students have participated and win prizes in universities, state & national level games.
- Institute has Two units of National Service Scheme (NSS), National Cadet Corps(NCC) of strength 100 students.
- Students are encouraged to publish articles on the new technologies& innovations in the leading news paper.
- Institute conducts technical paper presentation, project, innovation, software development, aptitude tests competitions for students.
- Various clubs like fine arts club, Quiz club, literary club.

**Mechanical Engineering:****2012-13:**

S.No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
1	N.Padalingam	Paper Presentation	15.03.2013	ABLAZE'13 Tamilnadu College of Engineering, Coimbatore	Second place
2	K.Govinda Krishnan	Paper Presentation	15.03.2013	ABLAZE'13 Tamilnadu College of Engineering, Coimbatore	Second place
3	S. Gnana vignesh	Engine Dismantling	14.03.2013	Mechflarez, Jeppiar Engineering College, Chennai	First place

**2013-14:**

S. No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
1	R. Seeni Thangaraj Pandian	Paper Presentation	18.03.14	STRENUZ'14, Scad Engineering College, Cheranmahadevi.	3 <sup>rd</sup> Prize
2	K. Govinda Krishnan	Paper Presentation	01.10.13	MEC-SPARARAE'13, S.Veerassamy Chettiar College of Engg. & Tech. Puliangudi- 627855	1 <sup>st</sup> Prize
3	N. Padalingam	Paper Presentation	01.10.13	MEC-SPARARAE'13, S.Veerassamy Chettiar College of Engg. & Tech. Puliangudi- 627855	1 <sup>st</sup> Prize
4	S.Sivasubramanian	-	19.12.13 to 30.12.13	National Integration Camp Odisha (Burla)	Senior Division Level
5	E. Sushil Sivanesh	-	16.01.14 to 25.01.14	Adventure Camp(NSS), Dharamshala-176219	Best Volunteer Award

**2014-15**

<b>S.No</b>	<b>Name of the Students</b>	<b>Events</b>	<b>Date</b>	<b>Name of the Program &amp; Organizer</b>	<b>Awards</b>
1	Essaki Sundar	Paper Presentation	February 15	Mepcho Schlenk Engineering college Sivakasi.	1 <sup>st</sup> Prize
2	S.Karthik	Paper Presentation	February 15	Mepcho Schlenk Engineering college Sivakasi	Presented
3	Selvan M.P.Praveen	Paper Presentation	February 15	Government College of Engineering, Tirunelveli.	Best Paper Award
4	C.K.Chidambar anadhan & I.Godwin Chelladurai Raja	Mantle & Dismantle	AUGUST 14	Thiyagarajar College of Engineering	1 <sup>st</sup> Prize
5	R.Azer greetz & S.Aathi kumar	Mantle & Dismantle	March 2015	Government college of Technology, Coimbatore	2 <sup>nd</sup> Prize
6	C.K.Chidambar anadhan & I. godwin Chelladurai Raja	Technical Quiz	August 2014	Thiyagarajar College of Engineering	1 <sup>st</sup> Prize
7	S.Selvam & R.Shanmugaraj	Technical Quiz	August 2014	Thiyagarajar College of Engineering	2 <sup>nd</sup> Prize
8	S.Karmuhil & L.Ashok kumar	CAD Modelling	September 2014	NIT, Trichy	3 <sup>rd</sup> Prize
9	S.Aathi kumar	Paper Plane	September 2014	NIT, Trichy	1 <sup>st</sup> Prize
10	S.Aathi kumar, S.Karthik & M.Balaji	Water Rocketery	September 2014	NIT, Trichy	1 <sup>st</sup> Prize
11	K.Esakki @ Pongasamy L.Ashok Kumar & S.Karmuhil	Water Rocketery	September 2014	NIT, Trichy	2 <sup>nd</sup> Prize
12	M.Selva Chidambaram	Innovative Project	February 2015	NEC, Kovilpatti	1 <sup>st</sup> Prize

S.No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
	S.Bala Vignesh B.Balaji Sundaram				

**M.E. Energy Engineering:  
2012-13:**

S.NO	Name	Title	Year	Journal name	Vol. & Page no.	Impact factor
1	Mr.T. Rajaseenivasan	A Review of Different Methods to Enhance the Productivity of the Multi-Effect Solar Still	2013	International Journal Renewable and Sustainable Energy Reviews	Vol. 17 (2013) pp. 248-259	6.018
2	Mr. P. Anburaj	Progresses in inclined type solar stills	2013	International Journal Renewable and Sustainable Energy Reviews	Vol. 20 (2013) pp. 364-377	2.59
3	Mr.T. Rajaseenivasan	Comparative study of double basin and single basin solar stills	2013	International Journal Desalination	Vol. 309 (2013) pp. 27-31	2.59

**National/International Conference:**

S. No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
1	Mr. N. Kathikeyan	2 <sup>nd</sup> International conference on Wind Energy	28,29, 30.11.2012	Wind Power India in collaboration with MNRE	Participated
2	17 Students of M.E. Energy Engg.	Eighth National Conference on Research Issues in Renewable Energy & Conservation	20.03.2013	ELCON'13, Dept. of EEE, National Engineering College, K.R.Nagar, Kovilpatti	Paper presentation

**2013-14**

<b>S.NO</b>	<b>Name</b>	<b>Title</b>	<b>Year</b>	<b>Journal name</b>	<b>Vol. &amp; Page no.</b>	<b>Impact factor</b>
<b>1</b>	Mr.T. Rajaseenivasan	Theoretical and experimental investigation on double basin double slope solar still	2014	International Journal Desalination	Vol. 319 pp. 25–32	2.59
<b>2</b>	Mr. P. Anburaj	Performance of an Inclined Solar Still with Rectangular Grooves and Ridges	2014	International Journal Applied Solar Energy	Vol. 49 No. 1, pp. 22–26	-
<b>3</b>	Mr.S. Maheshwaran	Experimental Study on Spiral Flow Passive Solar Water Heater	2014	International Journal Applied Solar Energy	Vol. 49 No. 2, pp. 89–92	-
<b>4</b>	Mr. V. Sriram	Experimental Study on a low pressure solar still	2014	International Journal Applied Solar Energy [	Vol. 49 No. 3, pp. 137–141	-
<b>5</b>	Mr. N. Ponkarthik	Performance enhancement of solar photovoltaic system using novel Maximum Power Point Tracking	2014	International Journal Electrical Power & Energy Systems	Vol. 60 No. 3, pp. 1-5	3.432

**Electrical and Electronics Engineering:**

<b>S. No</b>	<b>Name of the Students</b>	<b>Events</b>	<b>Date</b>	<b>Name of the Program &amp; Organizer</b>	<b>Awards</b>
1.	Azad. S	Hammer Throw	26-03-2015	Annual intramural Tournament	3 <sup>rd</sup> place
2.	Inancia. J	Volley Ball, Throw ball,	26-03-2015	Annual intramural Tournament	Winner
3.	Gulshan.S	CARROM	26-03-2015	Annual intramural Tournament	Winner
4.	Sudha.M	Ball Badminton	26-03-2015.	Annual intramural Tournament	Runner
5.	Venipriya.M	Ball Badminton	26-03-2015.	Annual intramural	Runner

S. No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
				Tournament	
6.	Vigneshwaran.M.	Ball Badminton	26-03-2015.	Annual intramural Tournament	Runner
7.	Manogari. M	Triple Jump, 400 mts Running, 800 mts&4*100 mt (Relay)	26-03-2015.	Annual Sports Meet	1 <sup>st</sup> place
		Discus Throw	26-03-2015.	Annual Sports Meet	2 <sup>nd</sup> place
		Throw Ball team & Basket Ball	26-03-2015.	Annual Sports Meet	Winner
		Volley Ball	26-03-2015.	Annual Sports Meet	Runner
8.	Shanmugam. P	5000 Mts	26-03-2015.	Annual Sports Meet	2 <sup>nd</sup> place
		Hockey team	26-03-2015.	Annual Sports Meet	Winner
9.	Saravanakkumar.R.S	Hockey team	26-03-2015.	Annual Sports Meet	Winner
10.	Sathya.P	Throw Ball team	26-03-2015.	Annual Sports Meet	Runner
11.	Abinaya.S	Mime competition	March 21, 2015	EZINA '15 during womens day celebrations	2 <sup>nd</sup> prize
12.	Jegan.M	Video Quiz	19 <sup>th</sup> March 2015	Intesy 2K15	2 <sup>nd</sup> place
13.	Aneruthmani. G	Idea presentation	19 <sup>th</sup> March 2015	Intesy 2K15	2 <sup>nd</sup> prize
14.	Atulkrishna.S.P	Idea presentation	19 <sup>th</sup> March 2015	Intesy 2K15	2 <sup>nd</sup> prize
15.	Gulshan.S	Disc Throw	07-03-2015	10 <sup>th</sup> NCC Sports Meet 2014-15	2 <sup>nd</sup> Place
16.	Shanmugam. P	5000mts Running	07-03-2015	NCC SPORTS DAY 2014-	1 <sup>st</sup> place

S. No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
				15	
		4*400m relay			3 <sup>rd</sup> place
		Foot Ball team			Winners
		TUG OF WAR			Winners
17.	Jerlin.B	TUG OF WAR	07-03-2015	NCC SPORTS DAY 2014-15	Winners
18.	Gokulsakthivel.M	Connectronix	24 & 25 Feb 2015	AVANZAR E 2015	1 <sup>st</sup> Place
19.	Jegan.M	TREASRE HUNT	23 <sup>rd</sup> Feb 2015 to 26 <sup>th</sup> Feb 2015	ROTOWEE K	3 <sup>rd</sup> prize
20.	KausikaLakshmanan. L.R	TREASRE HUNT	23 <sup>rd</sup> Feb 2015 to 26 <sup>th</sup> Feb 2015.	ROTOWEE K	3 <sup>rd</sup> prize
21.	Jegan.M	Best Buddy	23-02-2015 to 27-02-2015	FASE WEEK organized by Fine Arts Club of NEC	1st prize
22.	Anto Sharon Prakash. A	Vegetable Carving	23-02-2015 to 27-02-2015	FASE WEEK organized by Fine Arts Club of NEC	3 <sup>rd</sup> prize
23.	Akila. M	Vegetable Carving	23-02-2015 to 27-02-2015	FASE WEEK organized by Fine Arts Club of NEC	3 <sup>rd</sup> prize
24.	Gulshan.S	Mehandi Design	23-02-2015 to 27-02-2015	FASE WEEK organized by Fine Arts Club of NEC from	2 <sup>nd</sup> prize
25.	AbbiramyDevibala.E	Mehandi Design	23-02-2015 to	FASE WEEK	2 <sup>nd</sup> prize

<b>S. No</b>	<b>Name of the Students</b>	<b>Events</b>	<b>Date</b>	<b>Name of the Program &amp; Organizer</b>	<b>Awards</b>
			27-02-2015	organized by Fine Arts Club of NEC	
26.	Karpagavalli. K	Rangoli	23-02-2015 to 27-02-2015	FASE WEEK organized by Fine Arts Club of NEC	2 <sup>nd</sup> prize
27.	Porchitra.S	Connections	23-02-2015 to 27-02-2015	FASE WEEK organized by Fine Arts Club of NEC	2 <sup>nd</sup> prize
28.	PremaNayagi.G.S	Connections	23-02-2015 to 27-02-2015	FASE WEEK organized by Fine Arts Club of NEC	2 <sup>nd</sup> prize
29.	Subashini.C	Connections	23-02-2015 to 27-02-2015	FASE WEEK organized by Fine Arts Club of NEC	2 <sup>nd</sup> prize
30.	Jegan.M	Quiz	12-01-2015	ROTOYUV A	2 <sup>nd</sup> place
31.	Sudha.M	Ball Badminton	07/12/14 to 09/12/14	Anna University Zonal Ball Badminton Tournaments for the year 2014-15 held at V.V. College	Winners
32.	Venipriya.M	Ball Badminton	07/12/14 to 09/12/14	Anna University Zonal Ball Badminton Tournaments for the year 2014-15 held at V.V.	Winners

S. No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
				College	
33.	Vigneshwari.S	Ball Badminton	07/12/14 to 09/12/14	Anna University Zonal Ball Badminton Tournaments for the year 2014-15 held at V.V. College	Winners
34.	Jegan.M	Quiz	13-10-14	IE-Student Chapter	1 <sup>st</sup> prize
35.	Bavithra.R	Paper Presentation	10-10-2014.	ROTONIX	2 <sup>nd</sup> prize
36.	Subashini.C	Free Hand Sketching	22-09-2014 to 26-09-2014	NSS WEEK	2 <sup>nd</sup> prize
37.	Visnu Vidya.R	paper presentation	22-09-2014 to 26-09-2014	NSS WEEK	Participation
38.	Soundarya.K	Quiz competition	20 <sup>th</sup> Sep 2014	Engineers day Celebration organized by NCC	2 <sup>nd</sup> prize
39.	Bavithra.R	Paper Presentation	20 <sup>th</sup> Sep 2014	Engineers day Celebration organized by NCC	3 <sup>rd</sup> prize
40.	Jesintha.R	Poem Writing	28 <sup>th</sup> Aug 2014	Water conservation program organized by NCC	2 <sup>nd</sup> Place
41.	Kiruthika.K	4*100 mts Relay	28 <sup>th</sup> March 2014	Annual Sports Meet	2 <sup>nd</sup> prize
42.	Soundarya.K	Quiz competition	20 <sup>th</sup> Sep 2014	Engineers day Celebration organized by NCC	2 <sup>nd</sup> prize

S. No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
43.	GanapathyVinayagam.S	Mime competition	1 <sup>st</sup> Oct 2013	NEC Spark	2 <sup>nd</sup> prize
44.	KausikaLakshmanan.L.R	Short Film competition	1 <sup>st</sup> Oct 2013.	NEC Spark	1 <sup>st</sup> prize
45.	Jegan.M	Mime competition	1 <sup>st</sup> Oct 2013	NEC Spark	2 <sup>nd</sup> prize
46.	Jegan.M	Short Film competition	1 <sup>st</sup> Oct 2013	NEC Spark	1 <sup>st</sup> prize
47.	Narayanan.K	Hockey Team	15/10/13 to 17/10/13	Anna University Inter-Zonal Tournaments	Winners
48.	Naveen Lingam. M	Hockey Team	15/10/13 to 17/10/13	Anna University Inter-Zonal Tournaments	Winners
49.	Saravanakkumar.R.S	Hockey Team	15/10/13 to 17/10/13	Anna University Inter-Zonal Tournaments	Winners

**Paper Presentation/Workshop Attended:**

S. No	Name of the Students	Events	Name of the Program & Organizer	Date	Awards
1.	Deepa.N	Paper Presentation	Ramco Institute of Technology	28.8.2015	2nd Prize
2.	Bala Abirami.S	Paper Presentation	Renganayagi Varatharaj College of Engineering	25.9.2015	Participation
3.	Dhanushya.A	Paper Presentation	Renganayagi Varatharaj College of Engineering	25.9.2015	Participation
4.	Shivasankari.G Umadevi.K	Technical Quiz	IE(I), NEC- Kovilpatti	31-07-2015	Winners
5.	Soundarya.K Shanmuga Nithya.B	Technical Quiz	IE(I), NEC- Kovilpatti	31-07-2015	3rd Prize

S. No	Name of the Students	Events	Name of the Program & Organizer	Date	Awards
6.	Abdul kader riyaz.M	ICTACT Youth Presentation	Ponjesly college of engineering-kanyakumari	11.09.2015	Participation
7.	S.Vinoka Sanjeevini	Paper Presentation	Vaigai College of Engineering	04.09.2015	Participation
8.	M.Sri Jawahar	Paper Presentation	Ramco Institute of Technology	27.08.2015	Participation
9.	T.Sathish	Paper Presentation	Ramco Institute of Technology	27.08.2015	Participation
10.	L.Ramanarayana n @ Ramesh	Paper Presentation	Ramco Institute of Technology	27.08.2015	Participation
11.	A.Sangeetha	Paper Presentation	Ramco Institute of Technology	27.08.2015	Participation
12.	F.Sam Christopher Ponraj	Paper Presentation	Ramco Institute of Technology	27.08.2015	Participation
13.	M. Abdul Kader Riyaz S ArunJeyakumar G.Gowsalya Devi S.DivyaPrithi	Paper Presentation	IE(I), NEC- Kovilpatti	31-07-2015	Second Prize
14.	S.Prabhu P.R.Prakash	Paper Presentation	National Engineering College	01.07.2015	First Prize
15.	R.Narain Krishna	Essay Writing	National Engineering College	03.07.2015	Third Prize
16.	S.Suriya	Youth Talk	National Engineering College	4-08-2015	Second Prize
17.	S.Suriya	Essay Writing	National Engineering College	4-08-2015	First Prize
18.	R.Bavithra	Paper Presentation	IE(I), NEC- Kovilpatti	29.07.2015	Second Prize
19.	A.AcsalPremiSu	Paper	IE(I), NEC- Kovilpatti	29.07.2015	Third

S. No	Name of the Students	Events	Name of the Program & Organizer	Date	Awards
	bha K.Maheswari	Presentat ion			Prize
20.	J.Aksha	Paper Presentat ion	Loyola College	25.07.2015	Particip ation
21.	J.Aksha	Paper Presentat ion	IE(I), NEC- Kovilpatti	29.07.2015	Third Prize
22.	K.Madasamy @ Yuvaraja M.Arunkumar	Paper Presentati on	IE(I), NEC- Kovilpatti	29.07.2015	First Prize
23.	A.Mariappan	CircuitRix Electronic Arts	National Institute Of Technology, Trichy	1-2-2015	Particip ation
24.	G.K.ArchanaDh arsini	Paper Presentat ion	Central Electrochemical Research Institute, Karaikudi	February 2015	First Prize
25.	A.Balachandar A.Anto Sharon Prakash	Paper Presentat ion	Indian Institute Of Space Science and Technology, Trivandrum	20-3-2015	Particip ation
26.	K.Sathiyamoorth y (HVE) M.Manikandan A.Anto Sharon Prakash	National Conferen ce	Kamaraj College Of Engineering and Technology, Virudhunagar	27-3-2015	Particip ation
27.	R.Sunitha, N.Indhumathy	Circuit Debuggi ng	Kalasalingam Institute of Technology, Srivilliputhr	18.03.2015	Second Prize
28.	R.Sunitha, N.Indhumathy	Paper presentat ion	Kalasalingam Institute of Technology, Srivilliputhr	18.03.2015	Particip ation
29.	R.Visnu Vidya	Paper presentat ion	Mepco Schlenk Engineering College, Virudhunagar	21.02.2015	1st prize
30.	R.FelshiyaRajak umari R.NanthiniDhan alakshmi	Paper Presentat ion	Sri Ramakrishna Engineering college	13-2-2015	Second Prize
31.	B.SivaRanjini, U.ShanmugaPriya	Paper Presentat ion	Mepcoschlenk Engineering College, Sivakasi	20-02-2015	Particip ation

S. No	Name of the Students	Events	Name of the Program & Organizer	Date	Awards
32.	R.VisnuVidya	Paper Presentation	Mepcoschlenk Engineering College, Sivakasi	21-02-2015	1st prize
33.	Shanmugam. P and Sathianarayanan. M	Paper presentation	Sai Ram Institute of Technology, Chennai	23.08.2014	1st prize
34.	Zainy Mohammed Yousuf S	Paper presentation	Mepco Schlenk Engineering College	18.10.14	IV Place
35.	R.Visnu Vidya	Paper presentation	Mepco Schlenk Engineering College	20.02.2015	1st prize
36.	T.Karkuvelraja	Project Presentation	St.Joseph College Of Engg (FESTORASH'13)	02-03-2013	Second Prize
37.	T.Karkuvelraja	Paper presentation	National engg College,kovilpatti (ELITE'2K13)	05-02-2013	Second Prize
38.	T.Karkuvelraja	Project Presentation	National engg College,kovilpatti(SIPRO'12)	16-02-2013	1st prize
39.	T.Karkuvelraja	Industrial Defined Problem	Kumaraguru College Of Tech (Mechmerize'13)	05-01-2013	IIIrd prize
40.	T.Karkuvelraja	Project prezentac e	K.S.R.College of Tech (COMMUNIX'13)	02-02-2013	IIIrd prize
41.	T.Karkuvelraja	Project Expo	Surya Group Of Institutions (TECHNOWAR'13)	23-02-2013	IIIrd prize
42.	T.Karkuvelraja	Paper Presentation	Bangalore College Of Engg & Tech (START'2K13)	04-04-2013	1st prize

**High Voltage Engineering (M.E-EEE):  
National / International Conference Details:**

S. No	Name	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	Diffni Gomez. A.M	Investigation on Electrical Characteristics of Dielectric Fluids Under Aging Phenomena	International Conference on Communication and Signal Processing	Adhiparasakthi Engineering College, Melmaruvathur	April 2-4,2015
		Analysis of Partial Discharge Characteristics on Aged Mineral Oils	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 &20, 2015
2	Jasper.D	Enhancement of Characteristics Performance of Silicone oil with Semi conductive Nano particles	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 &20, 2015
3	Jaya Sudhan. M	Electrical Conductivity And Tensile Strength Of Carbon Nano Tubes Reinforced Aluminium Material	International Conference on Advances In Materials, Manufacturing And Applications (Amma 2015),	National Institute of Technology, Tiruchirappalli – 620 015,	April 9-11, 2015
4	Jegatheesh. G	Fabrication and Analysis on Critical Parameters of Nanosolid Dielectric Material for Enhancing the Insulation	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 &20, 2015

<b>S. No</b>	<b>Name</b>	<b>Title of the Paper</b>	<b>Name of the Conference</b>	<b>Organizer</b>	<b>Month &amp; Year</b>
		Strength			
5	Karthik. M	Investigation of vegetable oil blended with antioxidant	International Conference on Electrical, Computer And Communication Technologies.	SVS College of Engineering	March 05-07, 2015.
		Suitability analysis of natural esters based liquid insulating medium for high voltage transformers	DRDO sponsored 2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 & 20, 2015
6	Kiruthika. M	Evaluation and Prediction of Flashover Voltage on Contaminated Composite Insulators	International Conference on Electrical, Computer And Communication Technologies.	SVS College of Engineering	March 05-07, 2015.
		Flashover Prediction of SiR Insulator using Least Square Support Vector Machine (LS-SVM)	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 & 20, 2015
7	Kumar. K	Investigation of Non-Uniform Pollution Performance on RTV Coated	International Conference on Electrical, Computer And Communication Technologies.	SVS College of Engineering	March 05-07, 2015.

<b>S. No</b>	<b>Name</b>	<b>Title of the Paper</b>	<b>Name of the Conference</b>	<b>Organizer</b>	<b>Month &amp; Year</b>
		Bushing.			
		Investigation of Flashover Performance on 22kV Bushing With Non-Uniform Pollution.	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 & 20, 2015
8	Leelavathy. V	Optimal Design of Grading Ring And Analysis of Electric Field of 800kV UHVDC Bushing	International Conference on Electrical, Computer And Communication Technologies.	SVS College of Engineering	March 05-07, 2015.
		Analysis of Electric Field of 800kv UHVDC Bushing	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 & 20, 2015
9	Rajkumar. M	Evaluation of Critical Field Strength inside Gas-Insulated Switchgear for Specific Particles of Defined Geometry	2 <sup>nd</sup> National Conference on Emerging Trends in Electronics, Instrumentation and Control	Valliammai Engineering College	April 11, 2015
10	Rajalakshmi. B	Analysis of Partial Discharge in Underground Cable Joints	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and	Karpagam College of Engineering	March 19 & 20, 2015

S. No	Name	Title of the Paper	Name of the Conference	Organizer	Month & Year
			Communication Systems		
11	Revathi.B	Investigation on The Flashover Characteristics of Ester Oil Impregnated Pressboard Under The Influence of Nano particles	International Conference on Electrical, Computer And Communication Technologies.	SVS College of Engineering	March 05-07, 2015.
		Effect of SiO <sub>2</sub> Nano Particles on The Breakdown and PD Characteristics of Ester Oil Impregnated Pressboard	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 & 20, 2015
12	Robinson Jeyaraj. A	Characteristics of Multiple Additives Inhibited Oil with Copper Dissolution under Accelerated Ageing.	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 & 20, 2015
13	Sathiya Moorthy. K	Behavior of Synthetic Ester Oil With Cellulose Insulation Interface Under Impulse Wave	National conference on Intelligent Computing and Automation.	Kamaraj College of Engineering And Technology	March 27&28, 2015.

<b>S. No</b>	<b>Name</b>	<b>Title of the Paper</b>	<b>Name of the Conference</b>	<b>Organizer</b>	<b>Month &amp; Year</b>
14	Sivaneshwaran. K	Investigation on Critical Properties of Mineral Oil using Nanomaterial and Antioxidants	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 & 20, 2015
15	Sukanya. S	Performance Analysis of Cross-Linked Polyethylene(XLPE) Cable Insulation Under Different Artificial Defects	IEEE 2 <sup>nd</sup> International Conference on Knowledge Collaboration in Engineering	Kathir College of Engineering	March 27&28, 2015
16	Vigneshwaran. D	Investigation of Critical Properties of the Highly Unsaturated Natural Esters With Nano Composites.	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 & 20, 2015
17	Vinothkumar. R	Investigation of Natural And Artificial Contamination on Various Types of Insulators	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 & 20, 2015
18	Kalimurugan .M.S	Investigation of Electric Field Distribution on Ac Composite Insulator Using Corona Ring	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems	Karpagam College of Engineering	March 19 & 20, 2015

<b>S. No</b>	<b>Name</b>	<b>Title of the Paper</b>	<b>Name of the Conference</b>	<b>Organizer</b>	<b>Month &amp; Year</b>
19	Bakruthen.M	Investigation of Critical Parameters of Insulating Mineral oil Using Semiconductive Nanoparticals	IEEE International Conference on Circuit, Power and Computing Technologies - 2013	Noorul Islam University, Kumaracoil	March 21& 22,2013
20	Divya.S	Modelling of Pollution Flashover Performance on various types of Porcelain Insulators	International Conference on Advanced Computing, Machines and Embedded Technology	J.K.K.Nattraja College of Engineering and Technology	March 8& 9, 2013
		Comparison of Pollution Flashover Performance on various types of Porcelain Insulators	National Conference on Recent Trends on Power Systems	Sastra University, Kumbakonam	February 9, 2013
21	Diwakar.P.S	Investigation of Inter – turn Fault in Transformer Winding under Impulse Excitation	International Conference on Innovations in Intelligent Instrumentation, Optimization and Signal Processing	Karunya University, Coimbatore	March 1 & 2, 2013
		Investigation of Series and Shunt Fault in Transformer Winding under Impulse Excitation	8 <sup>th</sup> National conference on Control of Electrical Power Apparatus	Government College of Engineering , Tirunelveli	April 5, 2013

<b>S. No</b>	<b>Name</b>	<b>Title of the Paper</b>	<b>Name of the Conference</b>	<b>Organizer</b>	<b>Month &amp; Year</b>
22	Gurunathan.S	Design of Power system stabilizers and static var compensators using Evolutionary Algorithm	National Conference on Recent Trends in Engineering and Technology	Agni College of Technology, Chennai	March 15, 2013
23	Murugan.N	Design Optimization of High Voltage Composite Insulator Using Electric Field Computations	IEEE International Conference on Circuit, Power and Computing Technologies - 2013	Noorul Islam University, Kumaracoil	March 21& 22,2013
24	Muthukalaivani.G	A Novel Analysis of Voltage and Temperature Distribution in Insulators Using FEM	International Conference on Advanced Computing, Machines and Embedded Technology	J.K.K.Nattra ja College of Engineering and Technology	March 8& 9, 2013
25	Nisha Primerose.H	Analysis of Dielectric Property of Polymer Insulating Material Immersed in Oil	International Conference on Advanced Computing, Machines and Embedded Technology	J.K.K.Nattra ja College of Engineering and Technology	March 8& 9, 2013
26	Parvathavarthini. M	Investigation of Various Artificial Polluting Methods on Glass and Composite Insulators	7 <sup>th</sup> National Conference	Francis Xavier Engineering College, Tirunelveli	March 13,2013
27	Ramalakshmi.G	Computation of Electromagnetic Forces in Transformer winding	International Conference on Advanced Computing, Machines and Embedded	J.K.K.Nattra ja College of Engineering and Technology	March 8& 9, 2013

<b>S. No</b>	<b>Name</b>	<b>Title of the Paper</b>	<b>Name of the Conference</b>	<b>Organizer</b>	<b>Month &amp; Year</b>
		under short circuit current	Technology		
28	Raymon.A	Enhancement of Critical Parameters of Used Transformer oil with Naturally Activated Bentonite and Investigation of Vegetable oil Performance with Antioxidants	IEEE International Conference on Circuit, Power and Computing Technologies - 2013	Noorul Islam University, Kumaracoil	March 21& 22,2013
29	Sakthivel.G	Furan Prediction in Transformer oil using Artificial Neural Network	International Conference on Innovations in Intelligent Instrumentation, Optimization and Signal Processing	Karunya University, Coimbatore	March 1 & 2, 2013
30	Samuel Pakianathan.P	Enhancement of Critical Characteristics of Vegetable oil and Used Mineral oil of Power Transformer	IEEE International Conference on Circuit, Power and Computing Technologies - 2013	Noorul Islam University, Kumaracoil	March 21& 22,2013
31	Seenivasagam.L	Modelling of Partial Discharge Behaviour in a Cavity within the solid Dielectrics	IEEE International Conference on Circuit, Power and Computing Technologies - 2013	Noorul Islam University, Kumaracoil	March 21& 22,2013

<b>S. No</b>	<b>Name</b>	<b>Title of the Paper</b>	<b>Name of the Conference</b>	<b>Organizer</b>	<b>Month &amp; Year</b>
32	Sheik Sidthik.A	Evaluation and Prediction of Contaminato n level in Coastal region insulators based on Leakage Current Characteristic s	IEEE International Conference on Circuit, Power and Computing Technologies – 2013	Noorul Islam Unversity, Kumaracoil	March 21& 22,2013
33	Suganya Bharathi.M	Interpretation of Dissolved Gas Analysis in Transfoemer oil Using Fuzzy Logic	IEEE International Conference on Power, Energy & Control	PSNA College of Engineering & Technology, Dindigul	February 6-8, 2013
		A Novel Extension Method to Identify Power Transformer Faults Using Fuzzy Logic System	CSIR Sponsored 5 <sup>th</sup> National Conference on Advancedechnolo gies in Electrical Engineering	Kamaraj College of Engineering & Technology, Virudhunag ar	March 15 & 16, 2013
34	Swaminathan Suvikar Samraj. J	Investigation of Electromagne tic Interfrence due to High Voltage Line	IEEE International Conference on Circuit, Power and Computing Technologies – 2013	Noorul Islam Unversity, Kumaracoil	March 21& 22,2013
		Influence of High Voltage Transmission Lines on Humans	8 <sup>th</sup> National conference on Control of Electrical Power Apparatus	Government College of Enginnering , Tirunelveli	April 5, 2013

S. No	Name	Title of the Paper	Name of the Conference	Organizer	Month & Year
35	Vigneshwaran.B	An Improved Threshold Estimation Technique for Partial Discharge Signal Denoising Using Wavelet Transform	IEEE International Conference on Circuit, Power and Computing Technologies – 2013	Noorul Islam University, Kumaracoil	March 21& 22,2013
36	Yoga Rani.P	Comparative Analysis of dielectric and Thermal properties of Vegetable oil and Mineral oil	4 <sup>th</sup> International Conference on Advances in Civil, Electrical & Mechanical	Sun College of Engineering & Technology, Erachakulam	February 20, 2013
		Thermal Ageing Analysis of Pressboard and Kraft paper with Mineral oil & Vegetable oil	National Conference on Recent Advancements and applications of Smart Grid Technology in power Systems	Annamalai University, Annamalaiagar, Tamilnadu	March 9 & 10, 2013

**Computer Science &Engineering:  
2012 – 2013**

S. No	Name of the Student	Events	Name of the Pogram & Organizer	Award
1	Y.Catherin Balika and B.Mahadevan	In-plant training	HCL	Attended
2	Mr.N.Aadarsh and V.Manimekalai	In-plant training	HCL	Attended
3	S.Manjula	In-plant training	BSNL	Attended
4	M.Poornima, P.Ram Priya, S.A.Najeeba and M.Valarmathi	In-plant training	BSNL	Attended
5	Mahadevan	Course	Cisco Networking academy	Got Certificate

**2013 - 2014**

<b>S. No</b>	<b>Name of the Student</b>	<b>Events</b>	<b>Name of the Pogram &amp; Organizer</b>	<b>Award</b>
1.	S.Annalakshmi	Paper Presentation	National Engineering College	First Prize
2.	S.Ulagammal and A.Shanthi	Paper Presentation	Francis Xavier Engineering College	Second Prize
3.	A.Shanthi	Paper Presentation	Mepco Schlenek Engineering college.	First Prize
4.	D.Vanathi and M.Nivethitha	Paper Presentation	Infant Jesus Engineering college	Third Prize
5.	Vs.Selva siva santhiya	Paper Presentation	Anna University Madurai	First Prize
6.	P.PethuRaj and R.Subramanian	Paper Presentation	Francis Xavier Engineering college	First Prize
7.	V.Prakash	Paper Presentation	Balaji Institute of technology	First Prize
8.	R.Sujitha and S.Vinoshini	International conference	Noorul Islam Engineering college	Participated
9.	C.Malarvizhi and B.Muthuselvi	International conference	Government College of Engineering	Participated
10.	N.Chitra and R.Murugeswari	National Conference	SCAD college Of Engineering and Technology	Participated
11.	M.Saravanakumar and L.M.Nirmal Lakshman	Quiz Competition	V.H.N.Senthikumar a Nadara College	First
12.	S.sathis kumar	Ethical hacking	Sri Vidhya Engineering college	Participated
13.	42 Students	ANDROID	Madras Institute of Technology	Attended
14.	E.RamaLakshmi, S.Rukmani	ANDROID	National Engineering College	Attended
15.	6 Girls	SEARCH ENGINE OPTIMIZATION	National Engineering College	Attended
16.	11 Studnets	BIG DATA	National Institute of Technology	Attended

<b>S. No</b>	<b>Name of the Student</b>	<b>Events</b>	<b>Name of the Pogram &amp; Organizer</b>	<b>Award</b>
17.	5 students	Mobile Apps Development	National Engineering college	Attended
18.	J.Edwin Moses,M.Esakki, J.Mariappan	Debugging and reverse coding event	Mepco Schlenek Engineering college.	Participated
19.	10 Students	Lie Detector workshop	National Institute of Technology	Attended
20.	G.Chandrakala, J.Dharanidevi D.Mancey	Animation	Mepco Schlenek Engineering college	Attended
21.	S.Vignesh kandasamy	Bombay Stock Market	National Institute of Technology	Attended
22.	S.Vignesh kandasamy	Ethical hacking	SRM University	Participated
23.	E.Umayarajkumar	Distributed Computing	NIT, Trichy	Attended
24.	E.Umayarajkumar	Cloud computing	Madras Institute of Technology	Attended
25.	N.Nachiyar	Mobile and pervasive computing	Madras Institute of Technology	Attended
26.	S.Annalakshmi, S.Nivetha, V.Deepa, M.Suba	Cloud computing	Mepco Schlenek Engineering college	Attended
27.	Suba,A.Subbulakshmi, B.PonPreethi,K. Sakthipriya	Theory of computational complexity	National Engineering college.	Attended

### 2014 – 2015

<b>S. No</b>	<b>Name of the Student</b>	<b>Events</b>	<b>Name of the Pogram &amp; Organizer</b>	<b>Award</b>
1.	G. Velmurugan and M.Sivakumar	Paper Presentation	Sree Sastha College of Engineering	First Prize
2.	R. Deepa and S. Monisha	Paper Presentation	Kalasalingam University	Second Prize
3.	G. J. Ramesh	Online Treasure hunt	Mepco Schlenk Engineering	First

S. No	Name of the Student	Events	Name of the Pogram & Organizer	Award
		Competition	College	
4.	H. Muthu Mariappan and P. Murali Vinod	Technical Quiz Competition	Adhiyamaan College of Engineering	Third
5.	20 students	In plant training	HCL Career development cente	Attended
6.	J.Mariappan,G.J.Ra mesh	In plant training	UNIQ Technologies	Attended
7.	G.Suriya	In plant training	Codebindtech	Attended
8.	S.Surender and M.Santhoshkumar	Big data	IIT, Madras	Attended
9.	M. Vaidehi Ravina, S.Revathi and P.Tamilselvi	.NET tech	HCL career development center	Attended
10.	R.Veshalini, M.Pushpam and K.S.Shri Priyanka	Whatshack	NIT, Trichy	Attended
11.	T.Shobana, S.Monisha	Big data hadoop'	CIT, Coimbatore	Attended
12.	S.Selvasivakami and P.Shanmugapriya	Android	Mepco Schlenk Engineering college	Attended
13.	B.Selvalakshmi	Android internship program	National Engineering College	Attended
14.	8 Students	Android	Sowdambiga Engineering College	Attended
15.	S.Sylvester	Android	SNS EGINEERING College	Attended
16.	S.Vaishali	Android	Madras Institute of Technology	Attended
17.	A.Santha Mary Jeseema	Android	Madras Institute of Technology	Attended
18.	V.Shunmuga Gomathy S.SubbuLakshmi S.Swathi	Web Technologies	Indian Institute of Technology	Attended
19.	S.Sudhakalyani, G.Sherin Abhisheka, A.Shunmugasankari, Ramyaa parvathi, G.Nagajothi	Accelerobotics	NIT	Attended

**Department of Computer Science and Engineering(PG):  
2012-2013**

S.No	Name of the Student	Events	Name of the Pogram & Organizer	Award
1	V.Anitha	Paper Presentation	Mepco schlenk engineering college	Participation
2	L.Anlosafi	Paper Presentation	Mepco schlenk engineering college	Participation
3	C.Anushya Devi	Paper Presentation	IIT Chennai	Participation
4	R.Bala Bharathi	Paper Presentation	Thiyagarajar college of engineering	Participation
5	V.Brindha	Paper Presentation	Sri krishna college of engineering & technology	Participation
		Paper Presentation	Govt. college of engineering	Participation
6	M.Deepika	Paper Presentation	Thiagarajar Collge of Engineering	Participation
7	K.Kanagarathinam	Paper Presentation	Mepco Schlenk Engineering College	Participation
		Paper Presentation	Thiagarajar Collge of Engineering	Participation
8	R.LakshmiDevi	Paper Presentation	Sri Krishna College of engineering	Participation
		Paper Presentation	SSN College of Engineering	Participation
9	M.Mahalakshmi	Paper Presentation	Sathyabama University	Participation
		Paper Presentation	Govt. College of Technology	Participation
10	R.Niranjana Devi	Paper Presentation	Sathyabama UNiversity	Best Paper Award
		Paper Presentation	Govt.College of engineering	Participation
11	K.Ramya	Paper Presentation	SSN College of engineering	Participation
		Paper Presentation	Thiyagarajar college of engineering	Participation
12	S.L.Parvatam	Paper Presentation	Sri krishna of engineering & Technology	Participation

S.No	Name of the Student	Events	Name of the Pogram & Organizer	Award
		Paper Presentation	Thiyagarajar college of engineering	Participation
13	G.Rajapriya	Paper Presentation	Thiyagarajar college of engineering	Participation
		Paper Presentation	Kongu engineering college	Participation
14	T.Ramachandran	Paper Presentation	Sathyabama University	Participation
		Paper Presentation	Govt. College of Technology	Participation
15	P.Rameswari	Paper Presentation	Sathyabama university	Participation
		Paper Presentation	Govt.college of technology	Participation
16	P.Ravathy	Paper Presentation	Sri krishna college of engineering & technology	Participation
		Paper Presentation	Kongu engineering college	Participation
		Paper Presentation	Thiyagarajar college of engineering	Participation
17	M.Saranya	Paper Presentation	Mepco Schlenk Engineering College	Participation
		Paper Presentation	Govt.college of engineering	Participation
18	M.Saravanan	Paper Presentation	Chaitanya Bharathi Institute of Technology	Participation
19	N.Sathiya Rani	Paper Presentation	SSN College of Engineering	Participation
		Paper Presentation	Thiyagarajar college of engineering	Participation
20	S.R.Stalin Babu	Paper Presentation	Sathyabama University	Participation
21	S.Suganthi	Paper Presentation	IIT-Kharagpur	Participation
		Paper Presentation	Cochin University of Science and technology	Participation
22	S.Suganya	Paper Presentation	Kongu college of engineering	Participation
		Paper Presentation	Thiyagarajar college of engineering	Participation
23	A.Sunitha	Paper Presentation	Govt. college of engineering	Participation

S.No	Name of the Student	Events	Name of the Pogram & Organizer	Award
		Paper Presentation	Sathyabama university	Participation
24	S.Vijayalakshmi	Paper Presentation	Mepco Schlenk Engineering College	Participation
25	V.Yuvvashree	Paper Presentation	Thiyagarajar engineering college	Participation
		Paper Presentation	Sri Ramakrishna College of engineering	Participation

### 2013-2014

S.No	Name	Events	Name of the Program & Organizer	Award
1	S.AnjanaDevi	Paper Presentation	R.M.D. Engineering College	Participation
2	M.Divya	Paper Presentation	Tanil nNadu College of engineering	Participation
3	N.Jeyashenbagavalli	Paper Presentation	Bharathiyar University	Participation
4	M.Kalaivani	Paper Presentation	Kumaraguru college of Ttechnology	Participation
5	C.Kanagalakshmi	Paper Presentation	R.M.D Engineering college	Participation
6	M.Karthikadevi	Paper Presentation	Coimbatore Institute of Technology	Participation
7	L.Mareeswari	Paper Presentation	Kumaraguru college of Ttechnology	Participation
8	M.Mohanalakshmi	Paper Presentation	TamilNadu college of Engineering	Participation
9	S.Muthumeena	Paper Presentation	TamilNadu college of Engineering	Participation
10	A.Rajalakshmi	Paper Presentation	TamilNadu college of Engineering	Participation
11	C.Rajanayaki @ Sinduja	Paper Presentation	TamilNadu college of Engineering	Participation
12	M.Ramya durgadevi	Paper Presentation	Kumaraguru college of technology	Participation
13	K.Saroja	Paper Presentation	Kumaraguru college of technology	Participation
14	N.Sathya	Paper Presentation	Karpagam College of engineering	Participation
15	V.Selvavinaya	Paper Presentation	Karpagam College of engineering	Participation
16	R.Shakila	Paper Presentation	Kongu Engineering college	Participation
17	K.Sureka	Paper	Bharathiyar University	Participation

		Presentation		
18	G.Suryadevi	Paper Presentation	TamilNadu college of Engineering	Participation
19	C.Umarani	Paper Presentation	Coimbatore Institute of technology	Participation
20	V.Yamuna bharathi	Paper Presentation	Government college of Technology coimbatore	Participation

### 2014-2015

S. No	Student Name	Event	Name of the Pogram & Organizer	Award
1	S.Anitha	Paper Presentation	Bannari Amman institute of Technology, Sathyamangalam, Erode	Participation
2	S.Anitha	Paper Presentation	National institute of Technology, Trichy	Participation
3	V.Bharath	Paper Presentation	SCAD College of engineering and technology,Cheranmahadevi	Participation
4	K.R.Indira	Paper Presentation	Bannari Amman institute of Technology, Sathyamangalam, Erode	Participation
5	S.Jeyasri	Paper Presentation	Anna university Regional centre Coimbatore	Participation
6	U.Josephine Bala	Paper Presentation	Vivekanandha College of Engineering For Women Trichengode	Participation
7	J.Lalithapriya	Paper Presentation	Anna University Regional center Coimbatore	Participation
8	A.Maheshwari	Paper Presentation	Bannari Amman institute of Technology, Sathyamangalam, Erode	Participation
9	A.Maheshwari	Paper Presentation	Vivekanandha College of Engineering For Women Trichengode	Participation
10	M.Priyanga	Paper Presentation	Sri Krishna College of Engineering and Technology, Coimbatore	Participation
11	G.Rajendra kannammal	Paper Presentation	Anna university regional center, Coimbatore	Best Paper Award
12	G.Rajendra kannammal	Paper Presentation	Karpagam college of engineering, Coimbatore	Participation
13	G.Sagunthala	Paper Presentation	Bannari Amman institute of Technology, Sathyamangalam, Erode	Participation

S. No	Student Name	Event	Name of the Pogram & Organizer	Award
14	P.K.Saranya	Paper Presentation	Bannari Amman institute of Technology, Sathyamangalam, Erode	Participation
15	P.K.Saranya	Paper Presentation	Vivekanandha College of Engineering For Women Trichengode	Participation
16	B.Saravanalakshmi	Paper Presentation	Bannari Amman institute of Technology, Sathyamangalam, Erode	Participation
17	K.Shobana	Paper Presentation	Sri Krishna College of Engineering and Technology, Coimbatore	Participation
18	D.Stalin David	Paper Presentation	ANNA UNIVERSITY REGIONAL CENTRE,COIMBATORE	Participation
19	S.Vani	Paper Presentation	Sri Krishna College of Engineering and Technology, Coimbatore	Participation
20	R.Vijayakumar	Paper Presentation	SCAD College of engineering and technology,Cheranmahadevi	Participation
21	R.Kanaga Rathnam	Paper Presentation	SCAD College of engineering and Technology,Cheranmahadevi	Participation

**Students Achievements:**

S. No	Student Name	Students Achievements
1.	Ms.R.Femila Goldy	Won the <b>BEST PAPER AWARD</b> for the paper on the topic of "GAIT Recognition Using Multiple Features "in international conference held at Noorul Islam University in 2010.
2.	Ms. G.Jini Mol	Won the <b>BEST PAPER AWARD</b> for the paper on the topic of "Design and Analysis of Information Retrieval System using Semantic Concepts "in international conference held at Noorul Islam University in 2010.
3.	Ms.V.Anusuya Devi	Research paper has been selected in the Journal of Advanced Computing (JAC) 2010 entitled "Secure Group Communication based on BB84 protocol in Quantum Cryptography".
4.	Ms.S.Krithika	Research paper has been selected in the Journal of Advanced Computing (JAC) 2010 entitled "Human Behavior Prediction Using Probabilistic Global Activity Graph".

5.	Ms.R.Niranjana Devi	Won the <b>BEST PAPER AWARD</b> for the paper on the topic of "Optimal Secure Routing Protocol (OSPR) for Ad-hoc Networks using Adaptive Fuzzy Petri Nets "in National Conference held at Sathyabama University in the academic year 2012-2013.
6.	G.Rajendra kannammal	Won the best paper award for "Land use land cover classification of remotely sensed data using multi-scale segmentation" National level conference held at Anna university regional center, Coimbatore on 02.03.2015 and 03.03.2015.
7.	N.JeyashenbagaValli	Won the best paper award for "An Automated system for Tamil Named Entity Recognition using Hybrid Approach" , ICICA2014, Bharathiyar University, March 6th & 7th
8.	M.Karthikadevi	Won the best paper award for "The development of syllable based text to speech system for tamil language." in NECSCE'14, Coimbatore Institute of Technology , 27.02.2014& 28.02.2014
9.	A.Rajalakshmi	<b>Received the Best Paper Award for " An Improved dynamic Replica Selection and placement in hybrid cloud" in ETCC'14, TamilNadu College of engineering, 3.03.2014&amp; 04.03.2014</b>

**National / International Conference Details:  
2012-2013:**

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
1	V.Anitha	2013	National	Convergence of IT Research, Mepco schlenk engineering college, 21-3-2013	Registration of remotely sensed data using SIFT and fuzzy c-means clustering

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
2	L.Anlosafi	2013	National	Convergence of of IT Research, Mepco schlenk engineering college, 21-3-2013	Zone based offline Tamil handwritten character recognition using neural network.
3	C.Anushya Devi	2012	International	Biomedical Systems, Signals and Image, IIT Chennai, 29-11-2012	Detection of cardiac vascular diseases using ECG signal for rural areas.
4	V.Brindha	2013	National	Conference on Computing, Communication and Information Systems, Sri Krishna college of engineering & technology, 8-2-2013	An effective method for resource discovery system based on agent in cloud
5	K.Kanagarathinam	2013	National	Conference on Information and Network Management, Thiagarajar Collge of Engineering, 04-04-13	Unsupervised Change Detection on Multi-temporal Images based on UDWT and FCM Segmentation
6	R.LakshmiDevi	2013	National	Conference on Computing, Communication and Information Systems, Sri Krishna College of engineering, 9-2-2013	Cardiac Arrhythmia diagnosis system using data mining techniques

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
7	R.LakshmiDevi	2013	International	Conference On Bio-Signals, Instrumentation and Imaging, SSN College of Engineering, 14-3-2013	Cardiac Arrhythmia diagnosis system using data mining techniques
8	M.Mahalakshmi	2013	National	Center of Excellence for Islamic Studies, Govt. College of Technology, 21-3-2013	Fuzzified secure group communication
9	M.Mahalakshmi	2013	National	Conference on IEEE, Sathyabama University, 22-2-2013	A Novel approach for fuzzy based secure group communication
10	R.Niranjana Devi	2013	National	Conference on IEEE, Sathyabama University, 22-2-2013	Optimal secure routing protocol(OSRP) for adhoc-networks using adaptive fuzzy petrinets
11	K.Ramya	2013	International	Conference On Bio-Signals, Instrumentation and Imaging, SSN College of Engineering, 14-3-2013	Real time diagnosis of respiration rate using single lead ECG
12	K.Ramya	2013	National	Conference on Information and Network Management, Thiagarajar Collge of Engineering, 04-	Real time Ensemble support vector machine based sleep apnea

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
				04-13	diagnosis using single lead ECG
13	S.L.Parvatam	2013	National	Conference on Computing, Communication and Information Systems, Sri Krishna College of engineering, 8-2-2013	Extraction of effective attribute information for small dataset using datamining techniques
14	S.L.Parvatam	2013	National	Conference on Information and Network Management, Thiagarajar Collge of Engineering, 04-04-13	Attribute information extraction for small data set using classification technique
15	G.Rajapriya	2013	National	Conference on Innovative Computing Technologies, Kongu engineering college, 22-2-2013	A dynamic data replication in cloud to increase availability of popular data
16	G.Rajapriya	2013	National	Conference on Information and Network Management, Thiagarajar Collge of Engineering, 04-04-13	Management of data using dynamic data replication in cloud
17	T.Ramachandran	2013	National	Conference on IEEE, Sathyabama University, 22-2-2013	Fuzzified Energy Efficient Mechanism in WSN
18	P.Rameswari	2013	National	Conference on IEEE, Sathyabama University, 22-2-2013	Secure high throughput in wireless mesh network

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
19	P.Rameswari	2013	National	Center of Excellence for Islamic Studies, Govt. College of Technology, 21-3-2013	A novel approach for secure high throughput in wireless mesh network
20	P.Ravathy	2013	National	Conference on Computing, Communication and Information Systems, Sri Krishna College of engineering, 8-2-2013	Ontology Based Search engine using wordnet
21	P.Ravathy	2013	National	Conference on Innovative Computing Technologies, Kongu engineering college, 22-2-2013	Ontology based search engine using HYBRID data alignment
22	P.Ravathy	2013	National	Conference on Information and Network Management, Thiagarajar Collge of Engineering, 04-04-13	Data extraction using wordnet and data alignment using CF & CBF
23	M.Saravanan	2013	National	Conference on Recent Trends in Information Technology, Chaitanya Bharathi Institute of Technology, 22-3-2013	Appraisal of Tamil-English cross lingul information retrieval in agricultural domain using vector-space model.
24	N.Sathiya Rani	2013	International	Conference On Bio-Signals, Instrumentation and Imaging, SSN College of	Patient Monitoring System for Faster Identification

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
				Engineering, 15-3-2013	of Cardiac Abnormalities from Compressed ECG using Genetic Algorithm
25	N.Sathiya Rani	2013	National	Conference on Information and Network Management, Thiagarajar Collge of Engineering, 04-04-13	Patient Monitoring System for Faster Identification of Cardiac Abnormalities from Compressed ECG using Data Mining approach
26	S.R.Stalin Babu	2013	National	Conference on IEEE, Sathyabama University, 22-2-2013	Secure Video Transmission using quantum cryptography
27	S.Suganthi	2013	International	Intelligent Human Computer Interaction, IIT-Kharagpur, 29-12-2012	Semantic based orthographic with prepositional phrase for English-Tamil translation
28	S.Suganthi	2013	National	<u>Conference on Indian Language Computing</u> , Cochin University of Science and technology, 20-01-2013	English-Tamil translation using semantic based approach for prepositional phrase attachment

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
29	S.AnjanaDevi	2014	National	Latest Issues in Information Technology, R.M.D. Engineering College On 10.03.2014	An efficient Dynamic indexing & metadata model storage in cloud environment
30	M.Divya	2014	National	ETCC'14, TamilNadu College of engineering, 3.03.2014& 04.03.2014	Detection of heart disease by analysing QRS complex
31	N.Jeyashenbaga Valli	2014	International	ICICA2014, Bharathiyar University, March 6 <sup>th</sup> & 7 <sup>th</sup>	An Automated system for Tamil Named Entity Recognition using Hybird Approach
32	M.Kalaivani	2014	National	LIIT' 14, Kumaraguru college of Ttechnology, 14 <sup>th</sup> march	Analysis of EEG signal for the detection of brain abnormality
33	C.Kanagalakshmi	2014	National	LIIT' 14, R.M.D Engineering college, 10.03.2014	Diagnosis of Arrhythmia diseases using Electrocardiographic signal
34	M.Karthikadevi	2014	National	NECSCE' 14, Coimbatore Institute of Technology , 27.02.2014& 28.02.2014	The development of syllable based text to speech system for tamil

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
					language.
35	L.Mareeswari	2014	National	CIIEL2014, Kumaraguru college of Technology, 14.03.2014	Secure, Reliable and an energy efficient protocol for wireless body sensor network in medical application
36	M.Mohanalakshmi	2014	National	ETCC'14, TamilNadu College of engineering, 3.03.2014& 04.03.2014	Image object retrieval and recognition based on descriptive features using SVM
37	S.Muthumeena	2014	National	ETCC'14, TamilNadu College of engineering, 3.03.2014& 04.03.2014	Emotional Stress recognition using multi model bio-signal
38	A.Rajalakshmi	2014	National	ETCC'14, TamilNadu College of engineering, 3.03.2014& 04.03.2014	An Improved dynamic Replica Selection and placement in hybrid cloud
39	C.Rajanayaki @ Sinduja	2014	National	ETCC'14, TamilNadu College of engineering, 3.03.2014& 04.03.2014	An efficient crowd behaviour recognition using motion patterns
40	M.Ramyadurgadevi	2014	National	CITEL 2014, Kumaraguru college of technology, 13th march 2014	Scalable secure group communication for resource constraint wireless sensor network
41	K.Saroja	2014	National	CITEL 2014,	Defence

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
				Kumaraguru college of technology, 13th march 2014	against collaborative attacks in MANET
42	N.Sathya	2014	International	ICECS'14, Karpagam College of engineering, 13.02.2014 & 14.02.2014	Unspeevised monitoring of urban land use and land cover change detection in multitempora l image
43	V.Selvavinaya	2014	International	ICECS'14, Karpagam College of engineering, 13.02.2014 & 14.02.2014	Stress causing arrhythmia detection from ECG signal using HMM
44	R.Shakila	2014	National	NCCIS'14, Kongu Engineering college, March 14th 2014	An efficient energy based clustering scheme in wireless sensor network
45	K.Sureka	2014	International	ICICA2014, Bharathiyar University, March 6 <sup>th</sup> & 7 <sup>th</sup>	An efficient dependancy Passer using hybrid approach for tamil language.
46	G.Suryadevi	2014	National	ETCC'14, TamilNadu College of engineering, 3.03.2014& 04.03.2014	An efficient Distributed dynamic loard Balancing Algorithm for private cloud environment
47	C.Umarani	2014	National	NECSCE'14, Coimbatore Institute of Technology ,	Innanant and region based offline tamil hand written

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
				27.02.2014& 28.02.2014	character recognition
48	V.Yamuna bharathi	2014	National	NCVIT' 14, Government college of Technology, coimbatore, March 7th ,2014	Parallel HMM based handwritten recognition
49	S.Anitha	2015	National	National conference on frontiers in applied Sciences & computer technology,Bannari Amman institute of Technology, Sathyamangalam, Erode	Image retrieval by using Visual features
50	S.Anitha	2015	National	National institute of Technology, Trichy	Image retrieval by using Visual features
51	V.Bharath	2015	Inter National	SCAD College of engineering and technology,Cheranmahadevi	An Efficient load balancing algorithm for cloud environment
52	K.R.Indira	2015	National	Sixth national conference on innovations In information technology (NCIIT 2015),Bannari Amman institute of Technology, Sathyamangalam, Erode	Cardiac and stress assessment using SVM classifier
53	S.Jeyasri	2015	National	Two days national conference on ADVANCEMENTS IN COMPUTING	Automatic segmentation of MRI brain images for tumor detection

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
				METHODOLOGIES (NCACM'15), Anna university Regional centre Coimbatore	using contourlet transform
54	U.Josephine Bala	2015	Inter National	Vivekanandha College of Engineering For Women Trichengode	An Agent Based Fault Recovery in WSN
55	J.Lalithapriya	2015	National	Two days national conference on ADVANCEMENTS IN COMPUTING METHODOLOGIES (NCACM'15), Anna University Regional center Coimbatore	Content Based Image Retrieval using Robust Local Tetra Patterns
56	A.Maheshwari	2015	National	Bannari Amman institute of Technology, Sathyamangalam, Erode	Cluster based energy efficient Scheduling Algorithm for WSN
57	A.Maheshwari	2015	Inter National	International conference on electrical, Electronics and computing engineering, Vivekanandha College of Engineering For Women Trichengode	Cluster based energy efficient Scheduling Algorithm for WSN
58	M.Priyanga	2015	National	IEEE sponsored 7th national conference on Computing, communication and information Systems, Sri	Detection of Diabetic Heart Diseases using ECG and PPG Signal

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
				Krishna College of Engineering and Technology, Coimbatore	
59	G.Rajendra kannammal	2015	national	Two days national conference on Advanced IN COMPUTING METHODOLOG IES Anna university regional center, Coimbatore	Land use land cover classification of remotely sensed data using multi-scale segmentation
60	G.Rajendra kannammal	2015	international	Karpagam college of engineering, coimbatore	Efficient pixel based classification of remotely sensed images using multi scale segmentation and robust local texture pattern
61	G.Sagunthala	2015	National	Sixth national conference on innovations In information technology (NCIIT 2015),Bannari Amman institute of Technology, Sathyamangalam, Erode	An Efficient Dynamic Intrusion Detection Technique with Node behavior for strong Authentication System in MANET
62	P.K.Saranya	2015	National	Bannari Amman institute of Technology, Sathyamangalam, Erode	Reducing Energy Consumption using R-HEED in WSN
63	P.K.Saranya	2015	International	Sixth national conference on innovations In information	Energy Conservation using R-HEED in

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
				technology (NCIIT 2015), Vivekananda College of Engineering For Women Trichengode	WSN
64	B.Saravanalakshmi	2015	National	Sixth national conference on innovations in information technology (NCIIT 2015), Bannari Amman institute of Technology, Sathyamangalam, Erode	Trust Based Intrusion Detection System On Wireless Sensor Networks
65	K.Shobana	2015	National	IEEE sponsored 7th national conference on Computing, communication and information Systems, Sri Krishna College of Engineering and Technology, Coimbatore	A Novel Fuzzy Rule Based dynamic data replication for cloud data centers
66	D.Stalin David	2015	National	Two days national conference on ADVANCEMENTS IN COMPUTING METHODOLOGIES (NCACM'15), ANNA UNIVERSITY REGIONAL CENTRE, COIMBATORE	Development of DNS for quantify the operational status of DNSSEC deployment
67	S.Vani	2015	National	IEEE sponsored 7th national conference on	Development of Framework

Sl. No.	Name of the Student	Year	National/ International	Name of the Conference, Venue & Date	Title of the Paper
				Computing,com munication and information Systems,Sri Krishna College of Engineering and Technology, Coimbatore	for the Classification of cardiac Arrhythmia Diseases by Analyzing Big Data
68	R.Vijayakumar	2015	Inter national	3rd International conference on computing Terminologies and research development,SC AD College of engineering and technology,Chera nmahadevi	An Efficient Role-Based Access Control on Encrypted Data in Cloud
69	R.Kanaga Rathnam	2015	Inter national	SCAD College of engineering and technology,Chera nmahadevi	Change Detection from Remotely Sensed Images using Fuzzy Distance Measures

#### Department of Computer Science and Engineering(PG-MCA)

S. No	Name of the Student	Events	Name of the Pogram & Organizer	Award
1	G.Seenivasan B.Palavesamuthu	Code Development competition	Velammal college of Engineering and Technology	Participation
2	A.M.Kajanavas S.Mohamed Mohideen Ansari	Paper Presentation	Velammal college of Engineering and Technology	Participation
3	<u>A.Selvakanivasan</u>	Software Marketing	Reganayagi varatharajan College	II

4	<u>P.Mareeswaran</u>	Software Marketing	of Engineering & Technology, Sivakasi	II
5	B.Karthick Marimuthu	Software Marketing		II
6	M.Vignesh	Software Marketing		II
7	S.Natarajan	Debugging	Noorul Islam University, Thuckalay	I

**Electronics & Communication Engineering:  
2012 – 13**

S. No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
1.	Ashok Maruthi P	Paper Presentation	5.02. 2013	Adhiparasakthi Engineering College	1st Prize
2.	Subhasini S	Paper Presentation	2.04.2013	Adhiyamaan College of Engineering	3rd Prize
3.	Madhan Raj M	Paper Presentation	2013	Government College of Technology, Coimbatore	Participation
4.	Sharmila Devi N	Paper Presentation	2013	MEPCO SCHLENK Engineering College, Sivakasi	Participation
5.	Raziya Sulthana M	Paper Presentation	2013	Infant Jesus College of Engineering, Thoothukudi	Participation
6.	P.Santhana mariappa	Football	12.8.13 to 14.8.13	Anna University Zone 18 football Tournament	Participation
7.	Ashok Maruthi P	Workshop	29.12.2012	Thiagarajar College of Engineering	Participation

<b>S. No</b>	<b>Name of the Students</b>	<b>Events</b>	<b>Date</b>	<b>Name of the Program &amp; Organizer</b>	<b>Awards</b>
8.	Ashok Maruthi P	aBaCUS	2013	College of Engineering, Anna University Chennai	Participation
9.	Jemima Esther Rani E	Embedded Workshop	02.03.2013	MEPCO SCHLENK Engineering College	Participation
10	Subhasini S	Workshop	2013	NIT, Trichy	Participation
11	Nirmala K	Workshop	13.03.2013	VIT University, Vellore	Participation
12	Rajalakshmi I	Embedded Workshop	02.03.2013	MEPCO SCHLENK Engineering College	Participation
13	Rajalakshmi I	Worshop	2013	CEG Anna University, Chennai	Participation
14	Sowmiya D V	Workshop	17.02.2013	MIT Anna university	Participation
15	Sornaguru M	Workshop	16th March 2013	National Engineering College, Kovilpatti	Participation
16	Sowmiya D V	Paper Presentation	5th February 2013	National Engineering College, Kovilpatti	Participation
17	Sowmiya D V	Workshop	5th February 2013	National Engineering College, Kovilpatti	Participation
18	Rajalakshmi I	National Level Project	16th February 2013	National Engineering College, Kovilpatti	Participation
19	Sri Jananai A	National Level Project	16th February 2013	National Engineering College, Kovilpatti	Participation

S. No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
20	Ramya@Rameshwari K	National Level Project	16th February 2013	National Engineering College, Kovilpatti	Participation
21	Pappa T	Workshop	16th March 2013	National Engineering College, Kovilpatti	Participation
22	Sharmila Devi N	Workshop	16th March 2013	National Engineering College, Kovilpatti	Participation
23	Sharmila Devi N	Paper Presentation	February 2013	National Engineering College, Kovilpatti	Participation
24	Subhasini S	Workshop	29.09.2012	National Engineering College, Kovilpatti	Participation

#### 2013-14

S.No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
1	S.Arunaa	Paper Presentation	23.9.2013 to 27.9.2013	National Engineering College, Kovilpatti	I <sup>st</sup> Prize
2	M.Najla Kothar	Paper Presentation	23.9.2013 to 27.9.2013	National Engineering College, Kovilpatti	I <sup>st</sup> Prize
3	R.Abinaya	Flower Arrangement	1.8.2013	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize
4	R.Abinaya	Painting	1.8.2013	National Engineering College, Kovilpatti	I <sup>st</sup> Prize
5	R.Abinaya	Paper Presentation	2013	National Engineering College,	III <sup>rd</sup> Prize

S.No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
				Kovilpatti	
6	V.S.Adelin Nittas	Hair Dressing	1.8.2013	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize
7	A.Karthika	Paper Presentation	2013	National Engineering College, Kovilpatti	III <sup>rd</sup> Prize
8	Gowthami.K	Triple jump	2013	SivanthiAdhithan ar Engineering College	III <sup>rd</sup> Prize
9	Gowthami.K	Long jump	2013	SivanthiAdhithan ar Engineering College	II <sup>nd</sup> Prize
10	Gowthami.K	TIES(Long Jump)/	2013-14	Kongunadu Engineering college,Trichy	Participation
11	D.Ruebella Diana Raj	Workshop	2013-14	PSG College of Engineering and Technology	Participation
12	Kausalyadevi	Paper Presentation	2013-14	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize
13	A.Akshaya	Paper Presentation	2013-14	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize

#### 2014-15

S.No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
1.	J.Antony Snow Bharath	Paper Presentation	8.8.2014	VV College of Engineering	I <sup>st</sup> Prize
2.	J.Antony Snow Bharath	Circuit Debugging	8.8.2014	VV College of Engineering	II <sup>nd</sup> Prize
3.	J.Antony Snow Bharath	Techno Fair – 2015	19.2.2015 to 21.2.2015	District Science Centre, Tirunelveli	I <sup>st</sup> Prize
4	S.Arunaa	Paper Presentation	10.10.2014	National Engineering College,	I <sup>st</sup> Prize

S.No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
				Kovilpatti	
5	S.Arunaa	Paper Presentation	28.1.2015	National Engineering College, Kovilpatti	I <sup>st</sup> Prize
6	A.Fahmitha Bhanu	Paper Presentation	28.1.2015	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize
7	M.Najla Kothar	Paper Presentation	10.10.2014	National Engineering College, Kovilpatti	I <sup>st</sup> Prize
8	M.Najla Kothar	Paper Presentation	28.1.2015	National Engineering College, Kovilpatti	I <sup>st</sup> Prize
9	M.Najla Kothar	Mini Project	25.8.2014	National Engineering College, Kovilpatti	I <sup>st</sup> Prize
10	K.Ramasamy	Project Presentation	7.3.2015	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize
11	N.Revanth	Hardware Contest	25.8.2014 to 27.8.2014	Thiagarajar College of Engineering	II <sup>nd</sup> Prize
12	S.Sureka Nithila Princy	Project Presentation	25.8.2014	National Engineering College, Kovilpatti	I <sup>st</sup> Prize
13	S.Santhosh Raja Masillamony	Project Presentation	7.3.2015	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize
14	G.R.Sundararajan	Hardware Contest	25.8.2014 to 27.8.2014	Thiagarajar College of Engineering	II <sup>nd</sup> Prize
15	R.Abinaya	Paper Presentation	28.1.2015	National Engineering College, Kovilpatti	I <sup>st</sup> Prize
16	R.Abinaya	Paper Presentation	28.1.2015	National Engineering	I <sup>st</sup> Prize

S.No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
		n		College, Kovilpatti	
17	V.S.Adelin Nittas	Picture Description	2014- 2015	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize
18	S.Anand Chakkaravarthy	Project Presentation	25.8.2014	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize
19	M.Durai Murugan	Project Presentation	25.8.2014	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize
20	M.Durai Murugan	Surprise Event	23.2.2015 to 27.2.2015	National Engineering College, Kovilpatti	II <sup>nd</sup> Prize
21	D.Indhumathi	Paper Presentation	21.8.2015	M.A.M. College of Engineering	III <sup>rd</sup> Prize
22	J.Hari Priya	Paper Presentation	21.8.2015	M.A.M. College of Engineering	III <sup>rd</sup> Prize
23	S.Kiran Nivas Shankar	Paper Presentation	22.9.2014 to 26.9.2014	National Engineering College, Kovilpatti	I <sup>st</sup> Prize
24	Gunavathy.R	Volley ball	2015	Mepco Schlenk Engineering college, Sivakasi	III <sup>rd</sup> Prize
25	Gunavathy.R	Shuttle cock	2015	SivanthiAdhithana ar Engineering College	III <sup>rd</sup> Prize
26	Gunavathy.R	Shot Put	2015	SivanthiAdhithana ar Engineering College	Participatio n
27	Gunavathy.R	Discuss throw	2015	SivanthiAdhithana ar Engineering College	Participatio n
28	K.Priya	Paper Presentation	2015	V.V.College of Engineering	Participatio n
29	K.Priya	PCB Workshop	2015	National Engineering	Participatio n

S.No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
				College, Kovilpatti	
30	K.Priya	Kriya Workshop	February 2015	PSG college of engineering	Participation
31	K.Priya	Workshop on Embedded Systems	2015	One Yes Technologies, Chennai	Participation
32	S.Ramalakshmi	Paper Presentation	2015	Kamaraj College of Engineering and Technology, Virudhunagar	Participation
33	M.Brindha	Shuttle Cock	2015	MEPCO SCHLENK Engineering College, Sivakasi	Participation

### 2013-Communication Systems

S.No	Name	Events	Name of the college	Date
1.	V.Kalaiselvi	National Conference	TamilNadu College of Engineering	20.3.2013
2.	S.Fatima Sidiqka	National Conference	TamilNadu College of Engineering	20.3.2013
3.	M.Ebenezer Prathiba	International Conference	VELS University	5.4.2013
4.	A.Chella Cardilia	National Conference	TamilNadu College of Engineering	20.3.2013
5.	VT.Sivabalan	International Conference	SUN College of engineering and technology	19.2.2013

### 2013-2014 Communication Systems

S.No	Name	Event	College	Date
1	S P. Vinodhini	International Conference	Noorul Islam University	Feb 28,2014

<b>S.No</b>	<b>Name</b>	<b>Event</b>	<b>College</b>	<b>Date</b>
2	R.Guru Nirmalraj	National Conference	Vels Institute Of Science,Technology And Advanced Studies	March 14,2014
3	V.Angalaeswari	International Conference	Noorul Islam University	Feb 28,2014
4	B.Dinesh Kumar	National Conference	Psg College Of Technology	March 14-15,2014
5	G.Gajalaxmi	International Conference	Noorul Islam University	Feb 28,2014
6	R.Kaleeswari	International Conference	Karpagam College Of Engineering	March 13-14,2014
7	M.Lakshmi	National Conference	Thanthai Periyar Government Institute Of Technology Karpagam College Of Engineering	Jan 29,2014
		International Conference		March 13-14, 2014
8	S.Maythina Rani	International Conference	Karpagam College Of Engineering	March 13-14,2014
9	D.Vijayarohini	International Conference	Karpagam College Of Engineering	March 13-14,2014
10	S.Thulasimani	International Conference	Karpagam College Of Engineering	March 13-14,2014
11	B.S.Sujethra	National Conference	Agni College Of Technology	March 28,2014
		International Conference	Noorul Islam University	Feb 28,2014
12	L.P.Muthulakshmi	International Conference	Noorul Islam University	February 28,2014
13	S.Mugunthamala	International Conference	Noorul Islam University	February 28,2014
14	T.Murugalakshmi	National Conference	Thanthai Periyar Government Institute Of Technology	January 29,2014
		International Conference	Karpagam College Of Engineering	March 13,14,2014
15	S.Nandhini	International Conference	Karpagam College Of Engineering	March 13,14,2014
16	G.Sathya	International Conference	Noorul Islam University	February 28,2014
17	R.Ramalakshmi	International Conference	Noorul Islam University	February 28,2014

S.No	Name	Event	College	Date
18	R.Padma Mariammal	International Conference	Noorul Islam University	February 28,2014
19	S.Vigneshkumar	International Conference	Noorul Islam University	February 28,2014
20	H.Vignesh	International Conference	Noorul Islam University	February 28,2014

#### 2014-2015 Communication Systems

Sl. No	Name	Event	Name Of The College	Date
1	S.Amutha	International conference	Muthayammal college of engineering	March 5,6 2015
2	S.Archana	International conference	Karpaggam college of engineering	March 19,20 2015
3	S.Deepa princy	National conference	Kumaraguru college of technology	March 27 2015
4	M.Kanagavel	International conference	Anna university,BIT campus, Trichy	April 10,11 2015
5	J.Lakshmi priya	International conference	Muthayammal college of engineering	March 5,6 2015
6	R.Muthukrishnan	International conference	Sethu Institute of technology	March 26,2015
7	M.Poornima	International conference	Muthayammal college of engineering	March 5,6 2015
8	S.Prema	International conference	Karpaggam college of engineering	March 19,20 2015
9	M.A.Ruhaya rameez fathima	International conference	Karpaggam college of engineering	March 19,20 2015
10	M.Sankari prabha	National conference	Kumaraguru college of technology	March 27 2015
11	D.Sivasankari	International conference	RVS college of engineering and technology	April 16,18 2015
12	T.Vaishnavi rajintha	International conference	Muthayammal college of engineering	March 5,6 2015
13	G.Vimala	International conference	Muthayammal college of engineering	March 5,6 2015

Sl. No	Name	Event	Name Of The College	Date
14	P.Muthukumar	International conference	Karpaggam college of engineering	March 19,20 2015

#### 2013-2014 ME Embedded Systems

S.No	Name	Events	Name of the college	Date
1.	S.Sudha	International conference	DMJ Engineering College	27.2.2014
2.	X.Alphonse Jeya Prakash	International conference	DMJ Engineering College	27.2.2014
3.	F.Augustine Ragland raja	International conference	DMJ Engineering College	27.2.2014
4.	S.Balamurugan	National conference	Annai Mathammal Sheela Engineering College	22.3.2014
5	K.Jasmine Mystica	International conference And international Journal	Karpagam College of engineering ,DMJ Engineering College	13.3.2014, 27.3.2014
6.	K.Jeneta	International Conference	Cape Institute of Technology	27.3.2014
7.	P.Mahalakshmi	International Conference	DMJ Engineering College,Karpagam College of Engineering	27.2.2014 & 13.3.2014
8.	P.Mallika	International Conference	DMJ Engineering College	27.2.2014
9.	S.Mohamed Sabeer	International Conference	Karpagam College of Engineering	13.3.2014
10.	S.Pon Priyadarshini	International Conference	Karpagam College of Engineering	13.3.2014
11	D.RajaLakshmi	International Conference	DMJ Engineering College	27.2.2014
12.	J.Vignesh Sankar	International Conference	Karpagam College of Engineering	13.3.2014
13.	G.Vigneshwari	International Conference	DMJ Engineering College	27.2.2014

**Information Technology:**

<b>S.No</b>	<b>Name of the Students</b>	<b>Events</b>	<b>Date</b>	<b>Name of the Program &amp; Organizer</b>	<b>Awards</b>
1.	B.Rohini	Vegetable Carving	23 to 27.02.2015	National Engineering College	II
2.	P.Marichelvi	Rangoli	21.03.2015	National Engineering College	I
3.	Sabarish Kumar and Team	Short Film	20.02.2015	Kalasalangam University	I
4.	J.Nivedha Esther	Paperography	20.09.2014	Srinivasa Institute of Engineering and Technology	I
5.	S.Abinaya	Paperography	20.09.2014	Srinivasa Institute of Engineering and Technology	I
6.	S.Abinaya	Photo Snapping	20.09.2014	Srinivasa Institute of Engineering and Technology	I
7.	R.Sabarish Kumar	Tussle of Thoughts	24.01.2014	Kumaraguru College of Technology	II
8.	S.Micheal Lewis	Tussle of Thoughts	24.01.2014	Kumaraguru College of Technology	II
9.	N.Shanmugaraj	Video Contest	11.09.2013	National Engineering College	II
10.	G.Kantha Velan	Photography	26.09.2012 & 27.09.2012	P.S.R.Engineering College	II
11.	Durgadevi	Foot loose	09.03.2013	National Engineering College	II
12.	S.T.Sudhapriya	Quiz Competition	01.03.2013	G.Venkatasawamy Naidu College	III
13.	J.Siva ranjini	Volley ball	04.04.2013	National Engineering College	Winner
14.	N.Subhashini	Volley ball	04.04.2013	National Engineering College	Winner
15.	G.Chitra	Volley ball	04.04.2013	National Engineering College	Winner

<b>S.No</b>	<b>Name of the Students</b>	<b>Events</b>	<b>Date</b>	<b>Name of the Program &amp; Organizer</b>	<b>Awards</b>
16.	J.Ponni	Volley ball	04.04.2013	National Engineering College	
17.	C.Saranya	Volley ball	04.04.2013	National Engineering College	Winner
18.	G.Gayathrai	Ball badminion	04.04.2013	National Engineering College	Runner
19.	K.Gayathri	Ball badminion	04.04.2013	National Engineering College	Winner
20.	S.M.R.Sreedhar	Table tennis	04.04.2013	National Engineering College	Runner
21.	M.Deepika	Throw ball	04.04.2013	National Engineering College	Winner
22.	A.Muthu meera	Throw ball	04.04.2013	National Engineering College	Winner
23.	B.Kiruthika	Ball badminion	04.04.2013	National Engineering College	Runner
24.	V.Lakshmi priya	Throw ball	04.04.2013	National Engineering College	inner
25.	K.Madhu bala	Throw ball	04.04.2013	National Engineering College	Winner
26.	M.Suguna	Ball badminion	04.04.2013	National Engineering College	Runner
27.	S.Vinoth	Innovision	10 to 12.04.2013	College of engineering , Guindy	II
28.	H.Venkatesh	Innovision	10 to 12.04.2013	College of engineering , Guindy	II

**Electronics & Instrumentation Engineering:****2012 – 13**

<b>S.No</b>	<b>Name of the Students</b>	<b>Events</b>	<b>Date</b>	<b>Name of the Program &amp; Organizer</b>	<b>Awards</b>
1	Usha	Microprocessor debugging	2012	Sethu institute of technology, Madurai	I
2	Aishwarya.M	Microprocessor debugging	2012	Sethu institute of technology, Madurai	I
3	Aishwarya.M	Paper Presentation	2012	Sethu institute of technology, Madurai	Participation
4	Usha	Paper Presentation	2012	Sethu institute of technology, Madurai	Participation
5	Six students from IV year EIE	Workshop	3.3.2012 & 4.3.2012	PSG college of Engg. And technology, Coimbatore	Participation
6	Ten students from IV year EIE	Workshop	30.3.2012 & 31.3.2012	MIT, Chennai	Participation
7	Usha	Workshop	30.3.2012 & 31.3.2012	MIT, Chennai	Participation
8	Usha	Seminar	2012	Sethu institute of technology, Madurai	Participation
9	Twelve students from IV year EIE	Workshop	16.2.2012 & 17.2.2012	Francis Xavier college of engineering, Tirunelveli	Participation
10	Nine students from IV year EIE	Workshop	2012	KNSK college of engineering	Participation
11	Six students from IV year EIE	Workshop	2012	NIT , Trichy	Participation
12	Five students from IV year EIE	Workshop	2012	CIT, Coimbatore	Participation

**2013-14**

<b>S.No</b>	<b>Name of the Students</b>	<b>Events</b>	<b>Date</b>	<b>Name of the Program &amp; Organizer</b>	<b>Awards</b>
1	Anandhi.M.S	International Conference	12.2.2013, to 14.2.2013	PSG college of Engg. And technology, Coimbatore	Best Paper
2	AnuKrithiga	Paper Presentation	29.1.2014 to 1.2.2014	Anna University, Chennai	III
3	Balavinodhini.K	Technical Quiz	21.2.2014	Natio0nal level technical colloquium	I
4	Glady	Technical Quiz	21.2.2014	Natio0nal level technical colloquium	I
5	Soundrapandi	Project Display	15.2.2014	PSG college of Engg. And technology, Coimbatore	I
6	Amarnath	Project Display	15.2.2014	PSG college of Engg. And technology, Coimbatore	I
7	Suja	Science Writing & Journalism	2014	National engineering college, Kovilpatti	I
8	Uthra	Science Writing & Journalism	2014	National engineering college, Kovilpatti	III
9	Shankari.T	Science Writing & Journalism	2014	National engineering college, Kovilpatti	V
10	Karthiga	Workshop	17.8.2013	National engineering college, Kovilpatti	Participation
11	Vijaymanikandan	Workshop	2014	IIT, Madras	Participation
12	Mohammed azharudeen	Workshop	2014	IIT, Madras	Participation
13	Bala kumara vignesh	Workshop	2014	IIT, Madras	Participation
14	Chellaiya	Workshop	25.1.2015 &	MIT, Chennai	Participation

S.No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
			26.1.2015		
15	Balavinodhini	Paper presentation	21.2.2015	Kamaraj college of engineering and technology	Participation
16	Glady	Paper presentation	21.2.2015	Kamaraj college of engineering and technology	Participation
17	Twenty students from III year EIE	Workshop	14.2.2014 & 15.2.2014	NIT, Trichy	Participation
18	Durga Lakshmi	Workshop	2014	College of Engineering, Chennai	Participation

#### 2014-15

S. No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
1	M. Esakki Kumar	intra college project expo	2015	IEEE Student Branch, NEC	III Place
2	A. Vijayan	intra college project expo	2015	IEEE Student Branch, NEC	III Place
3	S. Abdul Ashik	intra college project expo	2015	IEEE Student Branch, NEC	III Place
4	A. K. Sundar	intra college project expo	2015	IEEE Student Branch, NEC	III Place
5	K.Tamilselvi	Engineers & Scientists Association (E&SA) Student Engineer Award	26.04.2014	Tamilnadu state level competition in Neyveli.	Consolation Prize
6	R.Gitabashyan	Paper Presentation	31.08.2014	Sethu Institute of Technology, Kariapatti .	Participation
7	AnuKrithiga	Paper presentation	24.07.2014	SCAD College	Participation
8	R.Gitabashyan	Instrument design contest	26.2.2015	National engineering college, kovilpatti	I

<b>S. No</b>	<b>Name of the Students</b>	<b>Events</b>	<b>Date</b>	<b>Name of the Program &amp; Organizer</b>	<b>Awards</b>
9	Jegan Raja	Instrument design contest	26.2.2015	National engineering college, kovilpatti	I
10	JijoChristo	Instrument design contest	26.2.2015	National engineering college, kovilpatti	I
11	Ramesh	Instrument design contest	26.2.2015	National engineering college,	I
12	Amarnath	Instrument design contest	26.2.2015	National engineering college,	II
13	Anixselvasam	Instrument design contest	26.2.2015	National engineering college,	II
14	Kajamaideen	Instrument design contest	26.2.2015	National engineering college, kovilpatti	II
15	Gunasekaranara simman	Instrument design contest	26.2.2015	National engineering college,	II
16	Suja	Instrument design contest	26.2.2015	National engineering college,	III
17	Aarthi Krishna	Instrument design contest	26.2.2015	National engineering college, kovilpatti	III
18	Nagarathinam	Instrument design contest	26.2.2015	National engineering college,	III
19	Saratha	Instrument design contest	26.2.2015	National engineering college,	III
20	Praveen kumar	Quiz competiton	2015	National engineering college,	I
21	Anadaraj	Quiz competiton	2015	National engineering college,	I

<b>S. No</b>	<b>Name of the Students</b>	<b>Events</b>	<b>Date</b>	<b>Name of the Program &amp; Organizer</b>	<b>Awards</b>
22	Shanmugam	Quiz competiton	2015	National engineering college,	III
23	Santhoshswaminathan	Quiz competiton	2015	National engineering college,	III
24	Jagadeesan	ISTE TN&P section annual convention	12.9.2014	National engineering college,	Best student award
25	Charumathi	Hand ball-inter zonal match	10.9.2014 – 16.9.2014	Trichy	participati on
26	Kodimalar	Hand ball-inter zonal match	10.9.2014 – 16.9.2014	Trichy	participati on
27	Shipraprasad	Inter college cultural competiton	5.9.2014-6.9.2014	Mepcoschlenke ngg. College, sivakasi	participati on
28	Praveen kumar	Quiz competiton	3.9.2014	Holy cross engg college, nagercoil	I
29	Shanmugam	Drawing competiton	28.8.2014	NCC	I
30	Uma preethi	Anna university zonal – chess tournament	21.8.2014-22.8.2014	G.U.Popeengg. College, sawyerpuram	IV
31	Rangarajan	Anna university zonal – chess tournament	21.8.2014-22.8.2014	G.U.Popeengg. College, sawyerpuram	IV
32	Anukrithiga	Picture description	2014	Literary club, NEC	II
33	Porselvi	Picture description	2014	Literary club, NEC	III
34	4 students from III year EIE	Workshop	5.3.2015 & 6.3.2015	Amirtha university, Coimbatore	Participati on
35	6 students from II year EIE	Workshop	20.2.2015	Mepcoschlenke ngg college, sivakasi	Participati on
36	4 students from IV year EIE	Workshop	17.2.2015	F.X. engg college, tirunelveli	Participati on

S. No	Name of the Students	Events	Date	Name of the Program & Organizer	Awards
37	7 students from II year EIE	Workshop	13.2.2015-15.2.2015	PSG college of engg, coimbatore	Participati on
38	3 students from III year EIE	Workshop	31.1.2015	NIT, trichy	Participati on
39	Anitha	Workshop	3.1.2015	IIT madras	Participati on
40	Abiya	Workshop	3.1.2015	IIT madras	Participati on
41	6 students from III year EIE	Workshop	24.9.2015	Sengunthar college of engg, erode	Participati on

**Conference Attended/Presented – PG – C&I**

Authors	Paper Title	National/ International Conference
<b>2012 – 2013</b>		
Ms.S.Menora Dr.A.Abudhahir M.CarmelSobia,	Eye Localization towards Developing a Head Postures Based Interface for Wheel chair	International Conference on Machine Vision and Image Processing (MVIP-2012), during 14 <sup>th</sup> – 15 <sup>th</sup> December 2012.
Mr.A.N.Abdul Haque Dr.A.Abudhahir, Mr.Jackson Daniel Mr.R.Elamurugu @ Gokul	Characterization Of Defects In Magnetic Flux Leakage Images	International Conference on Innovations in Intelligent Instrumentation, Optimization & Signal Processing, during 1 <sup>st</sup> & 2 <sup>nd</sup> March 2013.
Ms.R. Jeyakumari Dr.A.Abudhahir Mr.K.Shankar	Fabrication And Testing Of Thermal Pain Inducer	International Conference on Innovations in Intelligent Instrumentation, Optimization & Signal Processing, during 1 <sup>st</sup> & 2 <sup>nd</sup> March 2013.
Ms.M. Manchanajothi Dr.A.Abudhahir Mr.V. Suresh	Impact Of Sensor Non-Linearity On The Performance Of A Closed Loop Process Control System	International Conference on Innovations in Intelligent Instrumentation, Optimization & Signal Processing, during 1 <sup>st</sup> & 2 <sup>nd</sup> March 2013.

<b>Authors</b>	<b>Paper Title</b>	<b>National/ International Conference</b>
Mr.A.Marimuthu Dr.A.Abudhahir Mrs.J.BabithaThangamalar	Implementation of Linearization method for PTC Thermistor using PSoC	International conference on Computing and Communication Technology, during 1st and 2 <sup>nd</sup> March 2013.
Dr.B.Sankaragomathi	A Hybrid algorithm for Video object tracking and its application	International conference on Science and Innovation Engineering , during 2012, Chennai.
Ms.K.R.Chairma Lakshmi Mr.K.Shankar	Performance analysis of MPPT algorithms for Enhancing efficiency of SPV Power Generation Systems	ICEVENT 2013, SKP Engineering College, Tiruvannamalai, Jan 7-9, 2013.
Ms.R.Bhargavi Mrs.D.Sanathi	Automatic Location of Optic Disc Boundary in Retinal Images	IEEE International Conference on Computational Intelligence and Computing Research (2012 IEEE ICCIC) from December 18 <sup>th</sup> to 20 <sup>th</sup> December, 2012 at Coimbatore, India.
Ms.M.Maruthusivarani Mr.T.Ramakrishnan Ms.K.Muthukkutti	Comparison of Automatic Blood Vessel Segmentation methods in Retinal Images	International Conference 'ICEVENT 2013' organized by SKP Engineering College, Tiruvannamalai during the period from 7 <sup>th</sup> to 9 <sup>th</sup> January, 2013.
Ms.A. Vithyavallipriya Mr.T.Ramakrishnan Dr.B.Sankaragomathi	Segmentation and Location of Abnormality in Brain MR Images using Distributed Estimation	International Conference 'ICEVENT 2013' organized by SKP Engineering College, Tiruvannamalai during the period from 7 <sup>th</sup> to 9 <sup>th</sup> January, 2013
Mr.Vijayasankar Mr.R.Muniraj	Design of PID controller for Non-Monotonic Phase LTI Systems	International Conference on Emerging Trends in Electrical Engineering organized by Maria college of Engg, Authoor 21 <sup>st</sup> -23 <sup>rd</sup> 2013.
<b>2013 – 2014</b>		
Ms.R.Anitha, S.Renuka and	Multi Sensor Data Fusion Algorithms for Target	IEEE International Conference on

<b>Authors</b>	<b>Paper Title</b>	<b>National/ International Conference</b>
Dr.A.Abudhahir	Tracking using Multiple Measurements	computational Intelligence and Computing Research, during 26 <sup>th</sup> to 28 <sup>th</sup> Dec 2013 at Vickram College of Engineering, Madurai.
Ms.D.Kanaga Lakshmi, Dr.A.Abudhahir, A.H.Ragamathunisa Begum and Dr.D.Manimegalai	Tcebichef Moment Based Image Quality Measure	IEEE International Conference on Electronics and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> Feb 2014 at Karpagam College of Engineering, Coimbatore.
Dr.B.Sankaragomathi, and Ms.M.S.Anandhi	A Novel Approach for the Classification of Brain Tumor Computed Tomography	International Conference on Intelligent and Efficient Electrical Systems, during 12 <sup>th</sup> to 14 <sup>th</sup> Dec 2013 at PSG College of Technology, Coimbatore.
Ms.R.Saranya, Jackson Daniel, Dr.A.Abudhahir and N.Chermakani	Comparison of Segmentation Techniques for Detection of Defects in Non-Destructive Testing Images	IEEE International Conference on Electronics and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> Feb 2014 at Karpagam College of Engineering, Coimbatore.
Mr.Jackson Daniel, R.MohanaGayathri and Dr.A.Abudhahir	Characterization of defects in Magnetic Flux Leakage images using wavelet transform and neural network	IEEE International Conference on Electronics and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> Feb 2014 at Karpagam College of Engineering, Coimbatore.
Ms.S.Kausalya Devi, Mr.K.Shankar Dr.A.Abudhahir	Acquisition of Radial Artery Pulses (NADI)	IEEE International Conference on Electronics and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> Feb 2014 at Karpagam College of Engineering.
Mr.J.Jerry Burke, Mr.K.Shankar, Dr.A.Abudhahir	Simulation of Thermal Pain Stimulator using COMSOL Multiphysics	International Conference on Innovations in Information, Embedded and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> March 2014 at Karpagam College of Engineering, Coimbatore.

<b>Authors</b>	<b>Paper Title</b>	<b>National/ International Conference</b>
D.Santhi, Ms.S.Parvathi	Detection of Drusen in Retinal Images for the Diagnosis of Diabetic Retinopathy	International Conference on Explorations & Innovations in Advanced Computing, during 8 <sup>th</sup> to 10 <sup>th</sup> Jan 2014 at National Engineering College, Kovilpatti.
D.Santhi Ms.J.Kalaivaani	Segmentation of red lesions in Diabetic Retinopathy	IEEE International Conference on Electronics and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> Feb 2014 at Karpagam College of Engineering, Coimbatore.
Ms.S.Parvathi D.Santhi	Segmentation of Bright Lesions In Diabetic Retinopathy Retinal Images	International Conference on Innovations in Information, Embedded and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> March 2014 at Karpagam College of Engineering, Coimbatore.
Dr.D.Manimegalai, D.Santhi Ms.Karkuzhali	Detection of Fovea and Exudates in color fundus images	International Conference on Explorations & Innovations in Advanced Computing, during 8 <sup>th</sup> to 10 <sup>th</sup> Jan 2014 at National Engineering College, Kovilpatti.
V.K.Gopperundevi Mr.V.Suresh, Dr.A.Abudhahir	Simple Algorithm for the Magnetic Field Computation in Bobbin Coil Arrangement	International Conference on Global Innovations in Computing Technology (ICGICT'14), during 6 <sup>th</sup> to 7 <sup>th</sup> March 2014 at Jay Sriram Group of Institutions, Tirupur.
Mr.K.Gopinath, Mr.V.Suresh, Dr.A.Abudhahir	3D Modeling of MFL Inspection System to Detect the Defects on the Outer surface of small base tube	International Conference on Innovations in Information, Embedded and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> March 2014 at Karpagam College of Engineering, Coimbatore.
A.Sheeba Mr.S.Manikandan	Image Segmentation using BI-Level Thresholding	IEEE International Conference on Electronics

<b>Authors</b>	<b>Paper Title</b>	<b>National/ International Conference</b>
		and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> Feb 2014 at Karpagam College of Engineering, Coimbatore.
Mr.G.Perinkumar Mr.S.Manikandan	Design of Controller for Level process in Conical Tank	International Conference on Computational Systems in Engineering and Technology (ICCSET 2014), during 7 <sup>th</sup> to 8 <sup>th</sup> March 2014 at Sri Venkateswara College of Engineering, Pennalur.
Ms.B.Shanmugapriya Mr.T.Ramakrishnan	Segmentation of brain tumors in computer tomography images using SRM classifier	IEEE International Conference on Electronics and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> Feb 2014 at Karpagam College of Engineering, Coimbatore.
Mrs.M.CarmelSobia, Ms.V.Brindha Dr.A.Abudhahir	Facial expression recognition using PCA based interface for wheelchair	IEEE International Conference on Electronics and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> Feb 2014 at Karpagam College of Engineering, Coimbatore.
Mr.S.Arulkumar Mrs.J.BabithaThangamalar	PSoc Implementation of Nonlinear Function for Linearizing RTD & Thermocouple	IEEE National Conference on Emerging Trends in VLSI, Embedded Systems & Signal Processing, during 23 <sup>rd</sup> to 25 <sup>th</sup> Jan 2014 at Model Engineering College, Thrikkakara, Kerala.
Mr.B.Manikandan Mr.R.Muniraj	Tuning of PID Controller for Different Order Process using Intelligent Control Algorithm	International Conference on Innovations in Information, Embedded and Communication Systems, during 13 <sup>th</sup> to 14 <sup>th</sup> March 2014 at Karpagam College of Engineering, Coimbatore.

<b>Authors</b>	<b>Paper Title</b>	<b>National/ International Conference</b>
R.Jayakumari, K.Shankar, Dr.A.Abudhahir	Fabrication and Testing of Thermal Pain Inducer	International Journal of Computer Applications, (0975 – 8887) PP:10-12.2013
S.Sangeetha, Jackson Daniel, Dr.A.Abudhahir	Characterization of Defects in Magnetic Flux Leakage Images	International Journal of Computer Applications (0975 –8887) PP:16-20.2013
<b>2014 – 2015</b>		
J.JanetPaulin, Jackson Daniel	Krawtchouk Moment – Based Characterization of Defect in Magnetic Flux Leakage (MFL) Images	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS '15), during 19 <sup>th</sup> to 20 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.
S.LakshmiPriya, Dr.A.Abudhahir, Ms.PritheeMadan	Identification of Herb Leaves Using Image Processing Techniques	3 <sup>rd</sup> National Conference on Frontiers in Applied Sciences and Computer Technology, during 6 <sup>th</sup> to 7 <sup>th</sup> March 2015 at National Institute of Technology, Tiruchirappalli.
A.Prahu, I.Jackson Daniel, S.Siva Suriya Narayanan	Defect Detection in Ferromagnetic Material Using Magnetic Flux Leakage (MFL) Image	International Conference on Advanced Engineering and Technology for Sustainable Development (ICAETSD 2015), during 5 <sup>th</sup> & 6 <sup>th</sup> March 2015 at Karpagam College of Engineering.
R.Anushadevi, K.Shankar, Dr.A.Abudhahir	Design and Testing of PELTIER Based Pain Stimulator	International Conference on Electrical, Electronics & Computer Engineering (ICEECE 2015), during 11 <sup>th</sup> to 12 <sup>th</sup> March 2015 at Vivekanandha College of Engineering for Women, Namakkal.

<b>Authors</b>	<b>Paper Title</b>	<b>National/ International Conference</b>
M.Sophia, Dr.B.Sankaragomathi	Efficient Medical Image Compression using Wavelet Networks	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS '15), during 19 <sup>th</sup> to 20 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.
V.Soundaravalli, Sobana, D.Santhi	Segmentation and Classification of Cervical Cells	3 <sup>rd</sup> National Conference on Frontiers in Applied Sciences and Computer Technology, during 6 <sup>th</sup> to 7 <sup>th</sup> March 2015 at National Institute of Technology, Tiruchirappalli.
J.Sobana, V.Soundaravalli, Dr.D.Santhi	Segmentation and Classification of Pap smear Images	3 <sup>rd</sup> National Conference on Frontiers in Applied Sciences and Computer Technology, during 6 <sup>th</sup> to 7 <sup>th</sup> March 2015 at National Institute of Technology, Tiruchirappalli.
A.Hathimary, V.Suresh, Dr.A.Abudhahir	Theoretical Analysis of Magnetic Flux Leakage Signal from Arbitrary Oriented Rectangular Defect in Ferromagnetic Pipe	1 <sup>st</sup> International Conference on Advanced Engineering and Technology for Sustainable Development (ICAETSD 2015), during 5 <sup>th</sup> & 6 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.
M.Vivekanandan, V.Suresh, Dr.A.Abudhahir, N.Chermakani	Development of Imaging System for Defect Detection on Steam Generator Tubes	1 <sup>st</sup> International Conference on Advanced Engineering and Technology for Sustainable Development (ICAETSD 2015), during 5 <sup>th</sup> & 6 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.

<b>Authors</b>	<b>Paper Title</b>	<b>National/ International Conference</b>
T.N.Amarajothi, S.Manikandan, K.Muthukkutti	Liver Tumor Segmentation using Single Level Set method with Shape and Intensity Prior	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS '15), during 19 <sup>th</sup> to 20 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.
P.X.Nancy Grace, S.Manikandan	Control Moment Gyroscope's Gimbal Rate Control Using Permanent Magnet Synchronous Motor Control Techniques	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS '15), during 19 <sup>th</sup> to 20 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.
K.Chitra, T.Ramakrishnan, Dr.B.Sankaragomathi	Automatic Segmentation of Brain Tumor in CT Images Using LPC	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS '15), during 19 <sup>th</sup> to 20 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.
K.Roobini, T.Ramakrishnan, Dr.B.Sankaragomathi	Neighbourhood Weighted Fuzzy C-Means (NWFCM) Clustering Algorithm for Segmentation of Brain Tumors in CT Images	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS '15), during 19 <sup>th</sup> to 20 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.
Solomon Easudasan, M.Carmel Sobia, Dr.A.Abudhahir, A.Geetha	Facial Expression Recognition using DLBP and GLCM to Control a Wheelchair	1 <sup>st</sup> International Conference on Advanced Engineering and Technology for Sustainable Development (ICAETSD 2015), during 5 <sup>th</sup> & 6 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.

<b>Authors</b>	<b>Paper Title</b>	<b>National/ International Conference</b>
N.Jayasri, M.Carmel Sobia	Hardware in the loop simulation of dynamic stability control using vehicle simulator	International Conference on Electrical, Electronics & Computer Engineering (ICEECE 2015), during 11 <sup>th</sup> to 12 <sup>th</sup> March 2015 at Vivekanandha College of Engineering for Women, Namakkal.
A.Vidhya, A.Geetha, M.Carmel Sobia, Dr.A.Abudhahir	Appraising the Profundity of Facial Action Recognition for Time Sequential Facial Expression Image Analysis	2 <sup>nd</sup> IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS '15), during 19 <sup>th</sup> to 20 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.
S.MuthuMeera, J.Babitha Thangamalar, Dr.A.Abudhahir	Implementation of Transducer Linearization Using Tanner EDA Tool	1 <sup>st</sup> International Conference on Advanced Engineering and Technology for Sustainable Development (ICAETSD 2015), during 5 <sup>th</sup> & 6 <sup>th</sup> March 2015 at Karpagam College of Engineering, Coimbatore.

**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.**

The college has a multi-layered mechanism for the extra-curricular activities

**Games and Sports**

The Department of Physical Education looks after the Games and sports activities. The Department is headed by a Sports Convener and qualified Physical Director and Directress. The college has the required infrastructure complemented by huge play fields. The participation of students in Games and sports activities is fundamentally of two types:

**Intramural sporting activity**

**Representing the college outside**

Intramural competitions are organized time to time every year. The college teams participate in the tournaments whenever they are held all through the year without prejudice to academics.

The list of sports and games in which have regularly been participating

- Basketball

- Volleyball
- Football
- Gymnastics
- Hockey
- Athletics
- Badminton
- Chess
- Carrom
- Table Tennis

**Sports Activities year 2012-2013**  
**Anna University Zone-18 Tournament**

S.No	Events	Date	Venue	Results
1	Table Tennis(Women)	August 2012	Dr.Sivanthi adithanar College of Engg , Tiruchendur	Silver Medal
2.	Chess team	August 2012	Dr.G.U.Pope Engineering College, Swerpuram	Silver Medal
3.	Hockey team	September 2012	National Engineering College, Kovilpatti	Silver Medal
4.	Foot Ball Team	September 2012	Kalasalingam Institute of Technology, Krishnankovil	Bronze Medal
5.	Basket-Ball (Women)	September 2012	P.S.N. College of Engineering, Melathadiyoor	Bronze Medal
6.	Tennis Team	November 2012	Government College of Engg,Tirunelveli	Gold Medal

**Anna University Two Zone Tournament**

S.No	Events	Date	Venue	Results
1	Boxing Team	November 2012	Government College of Engg,Tirunelveli	Silver & Bronze Medal

**Sports Activities year 2013-2014**  
**Anna University Zone-18 Tournaments**

S.No.	Events	Date	Venue	Results
1	Foot ball Team	August 2013	National Engineering College, Kovilpatti	Gold Medal
2	Tennis Team	September 2013	Government College of Engg,Tirunelveli	Gold Medal
3.	Ball-Badminton (women)	September 2013	V.O.C College of Engineering, Turicorin	silver Medal
4	Basket-Ball (Women)	October 2013	MEPCO College of Engineering, Sivakasi	Bronze Medal
5	Basket-BallTeam	October 2013	National Engineering College, Kovilpatti	Bronze Medal

S.No.	Events	Date	Venue	Results
6	Table Tennis Team	October 2013	Anna University Tirunelveli Region, Tirunelveli	Bronze Medal
7	Hockey Team	October 2013	P.S.N. College of Engineering, Melathadiyoor	Bronze Medal
8	Table Tennis(Women)	October 2013	Anna University Tirunelveli Region, Tirunelveli	IV Place

### Sports Activities year 2014-2015

#### Anna University Zone-18 Tournaments

S.No	Events	Date	Venue	Results
1	Tennis Team (Men)	September 2014	Government College of Engg, Tirunelveli	Gold Medal
2	Table Tennis(Women)	September 2014	Dr.sivanthi Adithar College of Engineering, Thiruchendur	(Bronze Medal)
3.	Badminton Team (Men)	September 2014	MEPCO College of Engineering, Sivakasi	Bronze Medal
4	Table Tennis(Women)	October 2013	Anna University Tirunelveli Region	IV Place

#### Anna University Inter Zone Tournament

S. No	Events	Date	Venue	Remarks
1	Tennis Team	January 2015	Bannari Amman Institute of Technology, Sathiyamangalam	Participated

#### 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 of all the departments every semester. The same will be analyzed. Also, feedback from the students is obtained to provide valuable inputs for improving the support services like central library, hostels, sports activities, health centre, transportation, and books.

**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 Institute regularly interacts with the alumni. It also organizes alumni meet and collects the addresses of the employers through the feedback questionnaire from the alumni.
- After the campus interviews, the Institute interacts with employers and collects the feedback from them.
- The TCP contacts the employers with specific questionnaire to obtain feedback from the employers regarding the expertise, proficiency, efficiency, attitude to work in team spirit, aptitude to perform the assignment, and the skills. The employers also point out deficiencies, if any. Based on these inputs, the institute modifies or revises the existing curricula and introduces new academic programs.
- Similarly, the Institute gets the feedback during industry visits.
- The Institute analyses the feedback for improvement in curriculum, infrastructural facilities, and teaching learning process and information systems. Based on the inputs it improves the domains where there is need for reforms and modifications.
- This has improved the quality of performance of our alumni and brought-in higher standards in the teaching-learning process.

**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 institution has a definite vision on development of various creative skills of the students. The training and encouragement is aimed at encountering the complexities of future challenges. The faculty with experience and exposure in this particular area guide the students to explore themselves.
- The institution has various publications but not on regular basis which are to be edited by the teachers and students that create a platform for the students' creative thinking. It focuses on the socio cultural and academic issues. It encourages the students to sharpen their imagination.

**5.3.6 Does the College have a Student Council or any similar body? Give details on its constitution, major activities and funding.**

Every class has Class Committee in which students are the members. The students represent their views in subjects, syllabus and other related issues and problems. NSS, NCC, ISTE, IEEE Students Chapters have students' representations and the organize various programs like paper presentations, symposiums, workshops, seminars every year. Canteen Committee and antiragging committee is framed in our college in which students are

nominated as members. The funding will be provided by the college to organize the activities.

**5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Provide details of their activities.**

- The institution creates a platform for the involvement of the students in various academic, administrative and other activities. This empowers students to gain qualities of leadership and governance.
- Class Committee:  
The Class Committee is formed by every department where students of each year are members in the committee. It organizes Class Committee meeting thrice in a semester to discuss the syllabus coverage, difficulties in the subjects, any other issues or problems of the students.
- ISTE Student Chapter, IEEE Student branch:  
Students are the members of this chapter. Under this, academic activities like symposiums, workshops/seminars, paper presentation competitions, quiz, project Competitions are conducted.
- NCC and NSS :  
It aims to inculcate the values of social service in the personality of the students. It organizes various programs like awareness rally, camps, and competitions every year.
- Department Association:  
It organizes programs regularly to enhance the skills of the students. Students are the office bearers of department associations. Under these, academic activities like symposiums, workshops/seminars, paper presentation competitions, quiz, project Competitions are conducted

## **CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 Institutional Vision and Leadership**

6.1.1 State the vision and mission of the College.

#### **Vision**

Transforming lives through quality Education and research with human values

#### **Mission**

- To maintain excellent infrastructure and highly qualified and dedicated faculty.
- To provide a conducive learning environment with an ambience of humanity, wisdom, creativity and team spirit
- To promote the values of ethical behavior and commitment to the society.
- To partner with academic, industrial and government entities to attain collaborative research

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.?

#### **Addressing the need of society:**

The college is located in the southern part of the Tamilnadu the most prominent landmark of Kovilpatti, has been the crowning glory of this Matchless City of Matches. By wielding the magical wand of social commitment and munificence this foresighted philanthropist transformed a strip of barren land into a magnificent academic complex that has been consistently producing infallible engineers of high competence right from the day of students inception

#### **The students it seeks to serve:**

20 students are assigned under the parental nature of each of the tutors who are members of the teaching faculty. The student's academic and personal problems are discussed immediately and competent counseling is offered systematically.

#### **College tradition & value orientations:**

Quality Education, the Watchword of the institution, is offered by a well-knit contingent of dedicated teaching faculty. The Management takes particular care to appoint persons of high academic excellence with good infrastructure facilities. Members of the teaching faculty have authored valuable books and have published scholarly research papers in reputed National and International journals.

### 6.1.3 How is the leadership involved in

- \* ensuring the organization's management system development, implementation and continuous improvement

The Management at the uppermost level gives progressive leadership to the administrators of the institution, namely the Director, Principal, Head of Departments, Deans and Controller of Examination who in turn lead the college towards right direction.

The Management meets twice in a year with the Governing Board Meetings, Academic Council Meeting. The Director and Principal of the institution will submit the half yearly report before the management and discussion ensues and final resolutions have been taken for further implementation. The action taken for suggestions from earlier meetings will be presented subsequently for improvement and assessment.

The formation of fee structure, proposals of infrastructure facilities, funds allocation and expenditure incurred will be discussed in detail with the management and the auditing statement of accounts and balance sheet is presented in the annual general meeting.

If there is any vacancy rising in the teaching and non-teaching members, the administrators will have due discussion with the management and the allotment of faculty is done with the consent. A significant program is routinely organized in the month of May for the new recruits on the core values and ethos of the college.

The curricular and co-curricular programs of the institute is carried out effectively by the team of faculty members assigned by the Principal and the students are highly motivated and get involved in all the activities of the institute.

Faculty enrichment programmes have been conducted by the institute for the latest development and updating of knowledge with the guidance of the Director and the Principal.

Faculties are deputed for attending conferences, seminars, workshops, and paper presentations at national and international level to gain knowledge in higher education which builds the improvement process of academic system.

- \* interaction with stakeholders

The institute develops a better and healthy relationship with its stake holders towards imparting quality education.

**The Students Population:**

The Director and Principal of the institute initiate the interaction with the student community at the beginning of the academic programme. The administrator group of institute conveys the values and ethics to be followed to make the students as one of the part of the institute. The concern department head's will have interactive sessions with the students community via class in-charges, tutors, faculty members in class committee meetings thrice in a semester and minutes were recorded and appraised with the principal. Suggestions and decision to be imparted will be monitored subsequently in the proceeded meetings.

The Principal is always available to meet the student's community volunteers, club presidents and representatives for feedback, problems to be addressed pertaining to the students body.

**The Alumni:**

The Management has policy decision in inviting our college distinguished alumni's as the chief guest of events organized at our institute.

The Alumni Association and Cell is actively involved in having contacts with our alumni's and meetings are conducted twice in a year either in or abroad. The administrators of institute will take part in the alumni meetings and have interaction to make alumni feel that they are the part of the institute and alumni web portal is active for becoming alumni member.

**The Parents:**

The major stake holders which are the parents are duly respected and the department faculty members are in touch with them regularly and updating the progress of the students and principal addresses the parents once in a semester in the Parents Teachers Association meetings held at college premises to sort out the issues raised and making them to understand that they are the part of its endeavors in education development process.

**Faculty Members:**

The college initiates staff club to discuss the strength and weakness of the faculty. Motivating the faculty with guidance and reducing the emotional burdens by organizing community lunch, excursion, programmes like debate, cultural etc.

**Industry:**

Memorandum of Understanding (MoU) has been signed with various industries concern with the departments and regular meetings are conducted to understand the requirement of the industry and based on that, syllabus has been framed by nominating industrial experts as the board of study members.

\* reinforcing culture of excellence

1. Every department of our institute conducts student's symposium, association programmes once in a year inculcating the leadership qualities, ethics and human values.
2. The Student President is elected for every clubs of our college and activities of clubs are conducted and monitored by the administrators of the institute. In the annual day celebration of our college, the best volunteer award is presented for each club based on the review and performance.
3. Best out going male and female student award is presented every year based on the performance measures

\* Identifying needs and championing organizational development (OD)?

1. The institution collects the information about the college in number of ways. The Management encourages the participation of the staff members in the process of decision making. The Academic and Administrative staff members play a vital role in the planning and implementation of activities in the institution.
2. The feedback from the students and the self appraisal from the staff members help the institution to take proper decisions to improve.
3. The Principal is responsible for both academic and administrative functioning of the college
4. The personal interaction with staff holders, faculty, students and alumni will play the important role in the development of the institution
5. The interaction with parents once in a semester will play the essential role in the development.

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

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 position in various statutory bodies is filled and meetings are conducted regularly as per the statutory requirements

6.1.6 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.

Yes. The College promotes a culture of participative management.

1. HOD's and Faculty members has involved in academic and administrative activities.
2. Faculty are the members of Governing Board, Academic Council and Board of studies.
3. The faculty is freely permitted to have interaction with the management.

6.1.7 Give details of the academic and administrative leadership provided by the University to the College?

University members take active participation in Governing Council, Academic Council and board of studies and give suggestion for further improvement of academic and administrative development.

The Rules of the central & state Government, AICTE and UGC are implemented in our institution through University.

The University also arranges the state level placement(Off Campus) for the benefit of the college and the student

6.1.8 How does the College groom the leadership at various levels?

- The Principal has the powers with regard to all the academic and administrative matters including the conduct of examinations.
- The Director holds the power with regard to all financial matters of the college.
- The college has well framed statutory and non-statutory committees for looking after the academic and administrative procedures.
- The statutory committees are constituted as per the guidelines of the UGC.
- The college autonomous examinations are taken care by the Controller of examinations who is assisted by 2 Deputy Controllers of examinations and 1 Assistant controller of examinations.
- The departments are led by the heads of the departments, who takes care of academic and administrative tasks with the help of faculty members.
- There are 14 Non-statutory committees which are headed by senior faculty members and consisting of members at various levels.
- The administrative tasks are executed by the Administrative manager, the Office manager and the Human-Resource manager housed in the office of the Principal along with clerical, programming, data entry and other administration staff.
- Separate department offices are functioning in all departments, which are guided by the respective heads of the departments
- Dean- Academic plays key role in enhancement of educational activities and plays the role of convener for Board of Studies and the Academic Council.
- All the financial transactions related to the college are processed through a Nationalized bank: Indian Overseas Bank, K. Ramasamy Nagar Branch, Kovilpatti, Thoothukudi District, Tamil Nadu, India. Pin: 628503.
- The Principal of the college, the Head of the department and the Principal Investigator of the project are responsible for utilization of the project fund.

Thus the administrative set up is well framed with glue between the Principal, HOD and the Faculties.

Student Level :

Co-curricular activities form an essential part of the academic programme at the Institute. These are the activities that are conducted on or off the institution premises by clubs, associations and organization of pupil sponsored by the college. They are voluntary, are not part of the regular curriculum, are not graded and earn credits. These activities are a means to enhance social interaction, leadership, healthy recreation, acquire knowledge in various technologies, self-discipline and self-confidence. It helps to predict the level of PEO's attainment.

Our institution has various student chapters and extracurricular clubs to kindle the knowledge of budding engineers. It includes,

1. CSI Students' Chapter
2. IE(I) Students' Chapter
3. Association in All Departments.
4. IEEE Computer Society Students' Chapter
5. Cisco Networking Academy
6. IBM Centre of Excellence
7. Industry Oriented Courses
8. Maths Club
9. Science Club
10. Literary Club
11. Quiz Club
12. YRC, RRC, NCC, NSS.

6.1.9 Has the College evolved any strategy for knowledge management? If yes, give details.

Strategic planning division has been functioning in our college since 2010. Under this, different committees take care of various academic and other related co-curricular and extra-curricular activities.

6.1.10 How are the following values reflected in various functions of the College?

- Contributing to national development  
The College sends the students to NSS Camp, NCC Camp, Blood Donation camp and etc.,
- Fostering global competencies among students  
The Institution motivates the students to attend seminars, workshops, paper presentations and symposiums in other colleges.
- Inculcating a value system among students  
Students are involved to participate in blood donation camp, environment cleanliness, creating awareness to public in social issues through various clubs like NSS, NCC and YRC

- Promoting use of technology  
The Students are actively involved in developing a project and some of the projects are awarded as best project.  
The Students are involved in placement training which is handled students' associations and people from various companies. This will help the student to get placement in companies.
- Quest for excellence  
Students are motivated from the day one by the tutor who is assigned with the 20 students will council them to get various awards both inside the college and outside. Faculty are motivated to get the awards in their research activities

6.1.11 Give details of the UGC autonomous review committee's recommendations and its compliance.

UGC has granted autonomous status to the college for the period of five academic years from 22.03.2011.as per the policy of UGC, the visit of the review committee will take place after completion of the academic year 2016-2017.

## **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
  1. The college is dedicated to make teaching and learning for the students to think, analyse and creative.
  2. During the admissions of the students, the rules and regulations based on the Anna university are strictly followed
  3. College encourages the learning methods to the students from their participation through project work, in-plant training, attending seminars and workshop in recent technologies.
  4. Students are provided both central library with wi-fi connectivity and department library for referring latest collection of journals and etc.
  5. The academic progress of the students is continuously monitored by the weekly test which was conducted daily and the internal Assessment test.
  6. The students are motivated by the tutors (20 : 1)and based on their performance, the students are trained and participated in workshops, seminars and paper presentations.
- Research and development
  1. The College has recognized research centre in CSE, EEE, ECE, Mech & Chemistry approved by Anna university
  2. College Encourages faculty to do research. 34 Members are awarded Ph.D and 61 Members are pursuing their Ph.D. in various university.

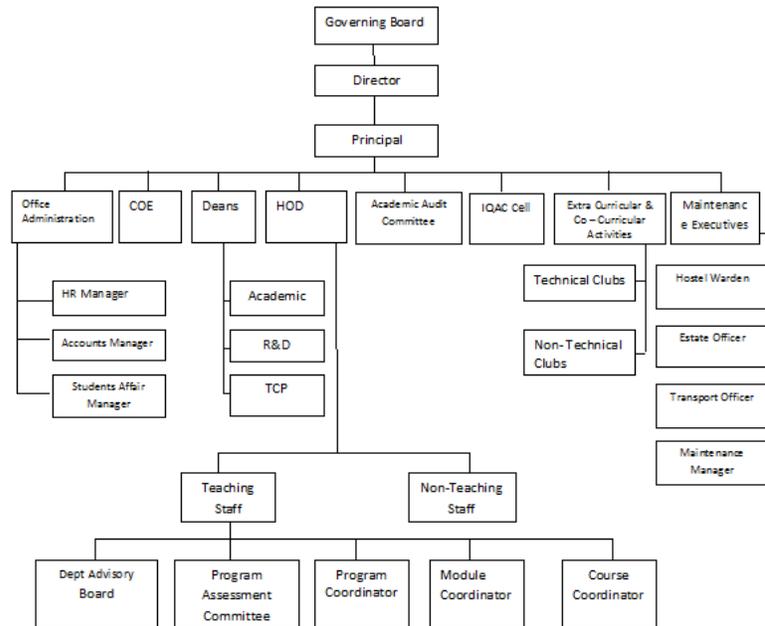
3. Research and development meetings are being conducted every month to motivate the research activities.
  4. The Management supports the professional development of the faculty and encourages them to undertake research work and motivate them to attend the seminars, workshops, refresher courses and international & National Conferences by giving them necessary OD..
- Community engagement
    1. College engages many activities like NSS, NCC, YR, blood donation camp, free medical Checkups, career programs and science exhibition for School students.
    2. Hockey tournament, career guidance program was conducted every year.
    3. Every year various clubs visit orphanage and help the students in donating the books and the things they needed.
    4. All the 12<sup>th</sup> and 10<sup>th</sup> week students are identified in Tuthookudi district and our management gives a workbook for all the subjects. Till now approximately 12 thousand work books have been donated.
  - Human resource planning and development
 

College follows the process of assessing sufficient human power requirements, staff recruiting, monitoring and planning professional development programmes for personal development. Faculty training takes place periodically. The institution recruits faculty members and administrative staff members based on the guidelines provided by the university
  - Industry interaction
 

The College deputed the students to the industry for the In Plant Training. The Second, Third, Final Year students are assigned to a company in their field as Industrial visit, internship training program
  - Internationalisation
 

Alumni working abroad are invited for a personal conference call meeting with the students. This will give a feel of the global market demands and steps are taken to make students aware of the need to develop themselves

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.

1. Effluent treatment plant was planned to use the waste water from hostel and it is in the commission stage.
2. Related to academic
  - a. First year block was extended in second floor.
  - b. IT and ECE Block was extended in the second floor which include seminar hall, Research and development lab and class room etc.
3. Separate Dining Hall for staff members is built in canteen upstairs.

6.2.4 Does the College have a formally stated quality policy? How is it designed, driven, deployed and reviewed?

The Quality policy has been formulated based on the vision and mission of the college and is the guiding force that helps the department administrators to plan their events. The objectives of the policy are assessed in every review meetings with management.

Quality is ensured in the following

- Academic services
- Administrative services

- Hostel services
- Health services
- Transport services
- Research projects
- Library services

**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 Complaints and Redressed committee and discipline committee was functioning in our college. Also our college has a tutor system for guidance and counseling.

Due to proper guidance and discipline was followed till now we have not received any types of compliance.

Each department has a Head and all the faculties are under his control and any grievances from the staff are represented to him and get solved. In some cases the head may convene a department meeting and a decision would be taken in the presence of all the staff members of the department. He may even refer this in the HOD meeting and discuss it with other HOD's and the Principal, and finally the solution may be reached.

College conducts three class committee meetings for every semester with stipulated interval. It is the meeting with students and the concerned staff members and the class committee members of the concern department. They discuss about the difficulties they face and the problem will be solved after the class committee member discuss with the Head of the department and principal.

Faculty problems will come to the notice of the Director and Principal through Staff Club.

**6.2.6 Does the College have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?**

The College has a clearly set and defined mechanism of obtaining the feedback from the students to improve the performance and quality of the institutional provisions. The Principal and committee members collect the feedback from the students. The inputs are used to improve the overall competency of the students for employability. Also now a day the feedback was collected through software and that mark was taken in the staff appraisal system for the better performance of the system.

**6.2.7 In what way the affiliating University helped the College to identify the developmental needs of the College?**

- University Nominees have been appointed by the affiliating university for conducting academic council and Board of Studies of all Under Graduate and Post Graduate departments

- In governing board there is one member from the university. With his guidance the policy decisions are taken.
- Every year our institution submits the affiliation report and university visits the college and verify.
- They will help us in framing the syllabus for the U.G. and P.G. degree programs
- They will also serve as subject experts for conducting FDP/ Conference / Symposium.
- They will guide us in developing the research centers of our institution
- University nominees appointed for the examination cell of our institution periodically give suggestions to improve the performance of the system.

**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 benefited.**  
No

**6.2.9 How does the College get feedback from non-teaching, teaching, parents and alumni on its functioning and how it is utilized?**

- The feedback from the staff members are put up to the principal and director through Staff Club.
- Parents give their feedback during the Parent Teachers Association meeting and the meeting is conducted once in a semester. Parents meet the concerned department members and are given details of their wards in the departmental level meeting. Their suggestion is forwarded to the Principal and their genuine demands are accepted. At the same time parents gives their feed back to the tutor, HOD, Principal and Director
- The institution conducts the alumni meet every year at that time the feedback is collected

**6.2.10 Does the College encourage autonomy to its academic departments and how does it ensure accountability? Yes**

- HODs are the Chairman of respective Board of Studies (BOS). They take care of development and design of curriculum and revising of it as and when required. All the members of the BOS are involved in this process.
- HODs are authenticated to sanction a leave for the staff members and allowed to purchase the things with in the minimum amount sanctioned by the head of the institution.
- As per the norms & procedure, faculty members are given autonomy to deliver content using appropriate teaching aids, designing and deploying appropriate assessment tools / methods for theory and practical courses, conducting internal examination etc.

**6.2.11 Does the College conduct performance auditing of its various departments? Yes**

**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?

The Director and principal identify the individual strength of the faculty by the help of the HOD's and assign the responsibilities to them. It protects the freedom of individuals, appreciates their innovations and thereby motivates them.

Management enhances the research activities by giving the career advancement scheme.

Management encourages each department to conduct workshop, seminars, orientation programs for faculty and students.

The institution conducts the faculty development program at the beginning of every academic year.

6.3.2 What is the outcome of the review of the Performance Appraisal Reports? List the major decisions.

The Faculty is having evaluated based on the category of self appraisal, HOD remarks, students feedback, university results and overall all appraisal and the faculty members who fall short in any one or more of the above categories will be asked to appear before the performance appraisal committee consist of management, Director, Principal, External Experts in the concerned subject and HOD to present about their performance.

The committee members will interact with the faculty members who were called for the committee and the committee gives recommendations in the following four categories.

- A. Performance is good and usual benefits and promotion may be considered as per the college norms
- B. Performance is only at satisfactory level and usual benefits may be considered with warning.
- C. Performance is not up to the level and to be improved in coming years and the increment may be sanctioned after assessing the performance during next year.
- D. Performance not satisfactory and may be relieved form the service.

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?

<b>S. No</b>	<b>Staff Welfare Schemes</b>	<b>Percentage</b>
1	Gratuity scheme at the time of retirement age	>55 Persons
2	Transport facilities scheme at free of cost	All Teaching and Non Teaching

3	Issue of Uniform scheme for Drivers, Attenders, Securities	>70 Persons
4	Career Advance Scheme	>116 Persons(approx.)
5	Group Personal Accident Policy	All Teaching and Non Teaching
6	Maternity Leave scheme for female staff	>36 staff
7	Medical Leave scheme for continued illness / sickness	>22 Persons
8	Contribution for employees provident fund scheme	All Teaching and Non Teaching
9	Staff Quarters	>15 Persons
10	Festival Advance	>150 Persons
11	Loan assistance scheme from Nationalized Bank at nominal rate of interest	>100 Persons
12	Employers state Insurance scheme for Non Teaching Staff	>160 Persons

6.3.4 What are the measures taken by the College for attracting and retaining eminent faculty?

- Management provides all facilities to its staff.
- Salary given to the staffs based on AICTE
- Promotion criteria are fixed by the Management, Director and Principal. Based on the Criteria the staff members get benefited
- Incentives for the reputed journal publication / funded projects and 60% of expenses will be given to attend the conference both national and international.
- The staff members are motivated to do internship program in reputed institutions or in industry for one or two months.
- Creating the academic freedom for the staff members
- Providing CUG facilities to all HODs and the members who are all taking in responsible position.

**6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings. No**

**6.3.6 Does the College conduct any gender sensitization programs for its staff?**

Through staff club “Health for Women” program and with the continuation the free health check up for women is conducted.

**6.3.7 What is the impact of the University's UGC-Academic Staff College Programmes in enhancing competencies of the College faculty?**

Faculty of the College are participating in various Short Term Training Programmes, Faculty Development Programmes, Seminars, Workshops, Conferences etc organized in our college and outside to enhance their competencies. A minimum of 30% to 40% faculty members are attending these programmes every year

**6.4 Financial Management and Resource Mobilization (Details from Office should be filled)**

**6.4.1 What is the institutional mechanism to monitor effective and efficient use of financial resources?**

- Details of proposed expenses collected from HOD's of various department at every semester beginning
- Based on the details of expenses collected from the HOD, Budget proposal prepared
- Budget proposal submitted to the governing council meeting for approval. After getting approval from the governing council the funds are allotted as per the proposal

**6.4.2 Does the College have a mechanism for internal and external audit? Give details. Yes**

- Internal audit conducted by the internal auditor appointed by our college
- External audit conducted by the chartered accountant appointed by the college

**6.4.3 Provide audited income and expenditure statement of academic and administrative activities of the previous four years.**

**INCOME & EXPENDITURE STATEMENT ARE AS FOLLOWS:**

S. No	Particulars	2011 - 2012	2012 -2013	2013 - 2014	2014 -2015
<b>Income</b>					
1	University Fees Collection	761500.00	824500.00	1434405.00	12377070.00
2	Student Fees	163992220.00	185348480.00	216920646.00	223068625.00
3	Grant Income	621640.00	635065.00	891280.00	1028203.00
4	By Other Collection	32732225.70	47014349.24	47005925.18	53063691.00
5	NSS Income	45461.00	0.00	62990.00	0.00
6	By Closing Stock	576431.56	774701.79	0.00	0.00
7	Contribution		2000000.00	2000000.00	2000000.00

S. No	Particulars	2011 - 2012	2012 -2013	2013 - 2014	2014 -2015
	Received form NEC Trust				
	<b>Total Income</b>	<b>198729478.26</b>	<b>236597096.03</b>	<b>268315246.18</b>	<b>291537589.00</b>
<b>Expenditure</b>					
1	To Salary	97479599.50	115970299.00	137352452.00	143593016.00
2	To Administrative Expenses	22876297.00	29037388.22	33867823.38	35059965.52
3	University Fees Paid	1188800.00	1435435.00	2730940.00	1234850.00
4	To Misc Expenses	5316228.56	8047787.90	11085726.48	10244625.43
5	NSS Expenses	87564.00	0.00	0.00	0.00
6	To Repairs & Maintenance	18352294.59	22142505.19	22928775.38	25029936.50
7	Depreciation	21951708.54	26836444.77	29657575.48	28716785.50
8	To Excess of Income Over Expenditure	31476986.07	31776102.60	30691953.46	47658410.05
9	To Diesel Purchase	0.00	774701.79	0.00	0.00
10	To Opening Stock	0.00	576431.56	0.00	0.00
	<b>Total Expenditure</b>	<b>198729478.26</b>	<b>236597096.03</b>	<b>268315246.18</b>	<b>291537589.00</b>

**6.4.4 Have the accounts been audited regularly? What are the major audit objections and how are they complied with?**

The accounts have been audited regularly. There is no major audit objections was erased.

**6.4.5 Narrate the efforts taken by the College for resource mobilization.**

Not Applicable.

We are using the funds form DRDO, DST, BRNS, ICMR,AICTE to organize the seminar and workshop for the benefit of the faculty members.

**6.4.6 Is there any provision for the College to maintain the ‘corpus fund’? If yes, give details. NO**

**6.5 Internal Quality Assurance System**

**6.5.1 Does the College conduct an academic audit of its departments? If yes, give details. Yes**

- An internal academic audit committee has been constituted to review the academic process of the autonomous programs once in a semester.

- The audit committee members are nominated both from higher level and lower level faculty from various departments.
- The audit committee will conduct academic audit periodically with prior intimation to assess the academic process and submit the report to the Principal
- Based on the suggestion given by the academic audit committee members, the faculty members are advised to take corrective measures to improve the Teaching Learning Process.
- External Auditing is suggested in the forth coming years for the improvement of Teaching Learning Process.

**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 committee members high light the best practices in suggest areas of improvement for all departments. The committee suggests the following

1. The best content delivery method
2. Introducing of value added courses meeting the requirement of industry
3. Implement better rubrics system for assessment of laboratory & theory courses
4. Inviting of industrial experts for class handling
5. Suggesting the suitable assessment procedures

**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?**

The institution has established a comprehensive assessment process for its programme outcomes. The assessment process is meant to ensure that the programme outcomes that are important to the Mission of the department and its Programme Educational Objectives are being monitored and measured.

The results of the assessment process are regularly applied to the improvement of the programme and the educational experience of our students.

With the instruction and guidance of the academic audit committee the Programme Assessment Committee (PAC) and the Module coordinators conduct the assessment process. This process has role specific responsibilities as listed below:

**a. Course Coordinators:**

Prior to the start of the assigned course the course coordinator will:

- Review the course file of past semester to identify the weakness (if any) in terms of improvements in teaching-learning process.

- Plan suitable course delivery methods and assessment tools for the course content.
- Analyze the coverage of syllabus in text / reference books and web materials.
- Prepare course plan by framing / familiarizing course outcomes and its mapping to relevant programme outcomes.
- During the offering of the course and at the end, the course coordinator will:
- Record the evidences of student outcomes in the form of test question papers, sample answer scripts, assignments, records and observation notes during the semester.
- Evaluate the course outcomes based on positive responses of the students' direct and indirect measures at the end of semester.
- Submit course evaluation report to respective module coordinators.

**b. Module coordinators:**

The senior faculty members of the programme are responsible of:

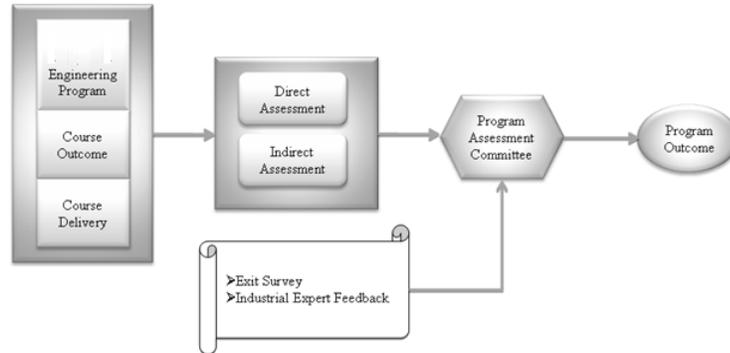
- Carrying out analysis of direct and indirect assessment data provided by the Assessment Committee and the course coordinator based on course outcome
- assessment results. (Twice per year)
- Identify potential problems and suggest recommendations for making improvements for the upcoming semesters. (Twice per year)

**c. Programme Assessment Committee (PAC):**

PAC comprises of the programme coordinator, module coordinators and assisted with senior faculty members and value added students and measures the attainment of programme outcomes. If the expected target of the programme outcomes are not met out, the PAC recommends suitable teaching aids / content delivery method/ course outcome refinement/curriculum improvements as appropriately needed to the programme coordinator. The PAC is taking vital responsibilities of:

- Design and control of the direct and indirect assessment processes during end of programme. (Once per year)
- With the assistance of department staff and faculty, data collection from industrial advisory committee meetings, exit surveys, course end surveys,
- course evaluation reports and students' feedback. (Once / Twice per year).
- Determine qualitatively and quantitatively whether the programme is achieving each educational outcome.
- Review the department's programme educational objectives and programme outcomes. (Once per year)
- Represent the Department in country-wide accreditation activities.

The overall assessment process for each of the programme outcomes followed by the programme is depicted in figure



### Outcome

1. From the course end survey of all courses, students' feedback and exit survey of graduates, the revision of programme curriculum is carried out in consultation with department advisory board futuristic opinions.
2. In addition to that, the module coordinators suggested strengthening faculty competencies
3. The programme assessment committee is acting keenly to continually monitor the progress in the process of evaluation to meet the desired targets successfully

#### 6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

1. IQAC facilitates student's centric environment
2. Consolidates the feedback of students, parents and other stake holders
3. Developing of curriculum based on the suggestions of stake holders
4. Suggestion given to all departments in conducting inter or intra level Conference, Workshop and seminar on the technical and non technical themes.
5. Plays a major role in developing the incubation centre.

#### 6.5.5 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

Yes, our college has external members on its committee. The views given by the external members were reviewed and Adoption of Small Scale Industry, Industry Institute Interaction has been enabled in all the departments.

#### 6.5.6 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

- \* IQAC conducted study on the academic growth of the students especially with the slow learners struggling more to get through in end semester examinations.

- \* IQAC had given suggestions to the administrators to provide special arrangements for providing additional coaching to the slow learners

**6.5.7 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?**

- Management – Director – Principal – HODs – Staff members. This hierarchy will take care of routine academic and administrative activities. HODs report to Principal and Director about the activities of their respective department.
- For establishment of new labs and procurement of equipment, here bottom up approach is followed. Lab Incharges discuss with HOD and then Principal and Director to finalize it.
- Subject related matters will be dealt with by faculty members, HOD, Dean(Academic) and Principal
- Dean (R&D) will monitor the activities of Research Centers and convene Review Meeting every month.

## **CRITERIA VII: INNOVATION AND BEST PRACTICES**

### **7.1 Environment Consciousness**

#### **7.1.1 Does the College conduct a Green Audit of its campus?**

To maintain the campus as green environment the institution takes the following measures.

- The Estate office of college is taking care of hygienic and peaceful environment in the college campus.
- With the help of Road cleaning machine sweepers are used to clean the road throughout the college which gives a pollution free environment
- The Gardeners are taking care of the trees and plants in the college
- Waste water is recycled and used for gardening with the use of this water we save 1.5 lakh litres ground water per day.

#### **7.1.2 What are the initiatives taken by the College to make the campus eco-friendly?**

- \* Energy conservation
  - Energy conserving lights like LED is used in the college campus
  - To save power solar lighting was used for street lights and other outer areas
  - Each block of institution has individual control panels.
  - The UPS Batteries were maintained in good condition which reduces charging current of batteries
  - Periodically equipment checking and monitoring its output current to avoid the excess current drawl
- \* Use of renewable energy
  - The institution has a solar based Lighting System in the campus
  - Solar Cooking System
  - Bio Gas
- \* Water harvesting
  - Rain-water harvesting project is functioning in college
  - Waste water in the institution has been recycled and used for gardening
  - Facilities for ground water reverse osmosis
- \* Check dam construction - NIL
- \* Efforts for Carbon neutrality 98% of CRT Monitors changed in to LCD Monitors
- \* Plantation 2000 Trees are planted in and around the college campus
- \* Hazardous waste management - NIL
- \* e-waste management
  - The low configuration and good quality computers are send to the schools

- Other unused computers are sold to the recycling company. They will use the parts of the computers for other purpose

## 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.

- **Incubation Centre** : The incubation center was initiated and the students are benefited.
- **ERP** : The system was introduced in our college since 2011. This system helps the management, Director, Principal, HOD's and Faculty to view the academic details of the student.
- **Solar water heater** : Use of Solar water heater reduces the use of LPG. Solar Lights The solar lighting system implemented in the college campus which helps to reduce the usage of electricity.
- **Biometric Attendance system** : It helps to maintain the attendance of the staff in turn it makes the paperless office.
- **Personality Development Programs** : These programs help the student and faculty to develop their communication skills, body language and the ability to converse with others.
- **Faculty Development Programs** : The staff members are developing their knowledge in attending these types of programs. Through these programs they teach current trends to the student and motivate them to do the project in social development.
- **MoU Signed industries** : MoU was signed with many IT Industries. Through these MoU the Industry people come here and give lectures to the student and the staff to develop themselves based on the needs of the industry.
- **Sponsored Projects** : Social relevant Projects are sanctioned by DRDO, DST, AICTE, BRNS and ect. The funds sanctioned by them are utilized for the development of the project and the faculty has to be in continuous learning process.
- Latest & Sophisticated equipment added every year The latest equipments are purchased every year for the development of the academic and infrastructure

## 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 Practices – I

1. **Title of the Practice:** Tutor System
2. **Objective of the Practice:**

The main objective of the Tutor System is to ensure that each student is taken care individually in which they can talk to about their academic and personal development, career planning and any pastoral concerns.

### 3. **The Context:**

- Tutor system at NEC was introduced in the year -----. A great advantage of the tutor system is the individual attention that students receive.
- Every 20 students in a class will have a dedicated Tutor. Support for the academic and personal development and welfare of the students will be given by the tutor.
- The role of Tutors involves providing academic advice and support to the student across the programme of study and reviewing wider academic progress continually.
- The Tutor is a student's first port of call in matters relating to students' academic progress, personal development, and welfare. Tutor will identify strengths and weaknesses and suggest ways in which you can improve your performance and will know about support services that are available to students, including Accessibility and the Students society.
- The Tutor provides an academic reference to expert services with regards to study, industrial readiness and placements or further study.
- Their support extends to provide a listening ear for problems, both personal and academic.
- This system provide an excellent chance for a strong rapport to develop between tutor and tutee.

### 4. **The Practice**

College Tutor Meetings:

The College make available to staff clear information concerning the provision of personal tutoring and support for students' personal development within the College. Tutor meetings are conducted for the tutors atleast 4 times in a semester.

Senior Tutor:

- a. Each Class has one Senior Tutor as Class In charge, who can provide induction guidance, support and resources to the Tutors in the Class including, where appropriate, schedules, suggested agendas and checklists to maximize consistency in the student experience of personal tutoring in a Class.
- b. Senior tutors are expected to coordinate and share practice with colleagues in similar roles and to provide updates on personal tutoring.
- c. The senior tutor should be able to give suggestions as well as additional sources of support and guidance to other Tutors in the management of more complex cases such as those involving disciplinary and fitness to study procedures.

Responsibilities of Tutors:

- Tutors should meet with their tutees at least once in a week so that the students would have at least four interactive sessions with Tutor per month.

- Tutors should provide advice and guidance as necessary that should be scheduled at appropriate times during the year to review progress.
- A record should be kept by the Tutor of each meeting and any follow-up actions. In addition, any changes in address or similar personal details to be updated in the record.
- Tutors are responsible for the reports of unsatisfactory attendance or performance in the event of any other cause for concern.
- When a student raises matters in confidence, this confidence must be respected, unless there is a risk of harm to the student or others. The student should be strongly advised to seek any further support as appropriate.

**5. Evidences of success:**

1. Tutees are discussing with tutors proactively in identifying and accessing any relevant skills training offered by the College, as appropriate and to take note of, and respond to, feedback and guidance from their Tutors even after graduation.
2. Whenever a student's personal or other circumstances are impacting on their academic progress they will inform their Tutor, and discuss ways to resolve such circumstances.
3. Students play active role in their learning and development in the College with a degree of professionalism.

**Best Practices – II**

**1. Title of the Practice :** Research and Development

**2. Objectives of the Practice**

*“Vision: To convergence knowledge, intellectuals, and resources for technological innovations”*

Research and Development is an important activity towards achieving academic excellence. Recognizing this, National Engineering College has set up a separate Research and Development Department to develop and nurture the state-of-the-art research activities at the college. At NEC, there exist a driving energy and passion associated with research and development activities. Also the vibrancy level is spreading through our passionate researchers to the outside world.

**3. The Context**

Research and Development activities bring together, an ecosystem of accomplished researchers from other industries, scientists from research labs, faculty of international repute, brilliant student community, excellent technical & support staff and an effective administration.

- ✓ It ensures an ambience where research and innovations are having timely credits and appreciations. In the research park brings together, in a common ecosystem, accomplished researchers from the industry, creating an ambience where research and innovation are celebrated as a way of life.

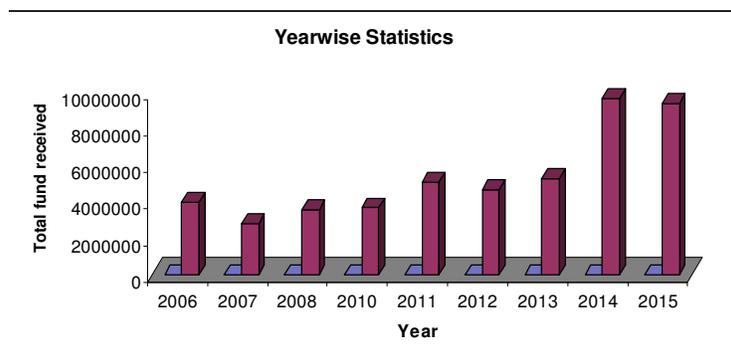
- ✓ It is also important to note that many of the projects undertaken are of high national importance. These research projects provide opportunities for our faculty members to expertise the state of the art research facilities and interactions with world renowned specialists in their areas of expertise.
- ✓ It is recognized that state-of-the-art laboratory facilities and E-Journal facilities are essential to pursue quality research. NEC provides foremost care to quality higher education as well as basic and applied research in emerging fields. The institute has six recognized research centres in various disciplines of engineering and sciences.
- ✓ Pursuit of research activities helps the faculty members to stay in touch with the emerging trends in their areas of expertise which is vital for the intellectual development of the faculty.
- ✓ Special emphasis has been focused on the continual improvement of the Research and Development activities by each department. The faculty members are encouraged to submit research proposals for funding to address the socio-technical issues and challenges and also communicate their research findings for publication in the reputed journals. They are also actively participating in the conferences and seminars so that they can interact with their peers and participate in the deliberations at the meetings.
- ✓ In addition, 36 Anna University recognized supervisors are guiding the faculty members to stay in touch with the recent developments also contact other National and International professionals in their area of specialization. So far, from NEC research centres, 49 PhD scholars have been awarded.

#### **4. The Practice**

- i. Devise academic/sponsored research process flows to assist the research scholars in meeting their quality research objectives on-time.
- ii. Periodical review of research strategies and plans of individual department through road maps.
- iii. Analyzes the requirements of emerging thrust areas for inter disciplinary research.
- iv. Guides the research aspirants for writing project proposals through discussions and workshops.
- v. Recognizes the publications of the research works in reputed journals and conferences.
- vi. High importance to identify solutions for various social issues with national importance.
- vii. Encourages the active research scientists to collaborate with endowed University Departments and research labs to undergo PDFs.
- viii. Collects the R&D progress details of the research centers periodically through online-R&D portal.
- ix. Disseminates the activities and achievements to the public in web-site.

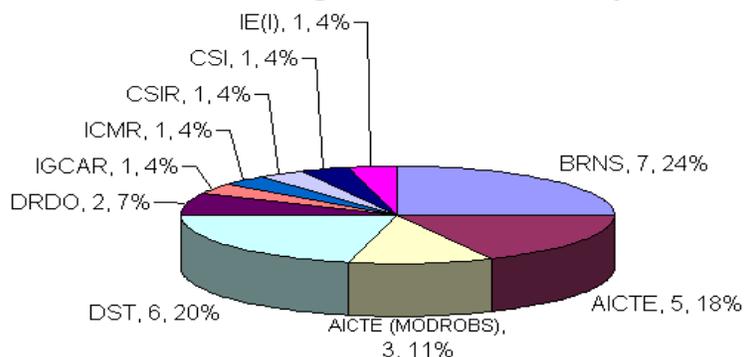
## 5. Evidence of Success

- It is heartening to note that NEC has been able to obtain research funds amounting to Rs.5,05,46,221 (Rupees Five Crores Five Lakhs Forty Six Thousand and Two Hundred and Twenty One Only).
- The year-wise statistics is shown below:



- The funds are received from reputed funding agencies like BRNS, AICTE, DST, CISR, DRDO, IGCAR, ICMR, MNRE, etc.,

### Sanctioned Agencies & No. of Projects



## 6. Problems Encountered and Resources Required

- Collaborative research funding from Govt. agencies.
- Transforming the innovations into Patents.

## 7. Future Plans

- To organize a series of doctoral research symposium for the scholars pursuing PhD.
- To PROMOTE high no. of centre for research excellence in each departments.

### 6. Evaluative Report of the Department

1. Name of the Department & its year of establishment –  
 B.E. Computer Science and Engineering & 1984  
 M.E. Computer science and Engineering & 2001  
 MCA Master of Computer Applications & 1997
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

S. No.	Name of the Programs offered	Remarks (U.G/P.G/ M.Phil/P/Ph.D)
1	B.E (4 Years) Computer Science and Engineering	U.G
2	M.E Computer Science and Engineering	P.G
3	Master in Computer Applications	P.G

3. Interdisciplinary courses and departments involved

S. No.	Interdisciplinary courses offered	Names of the Departments involved
1	Social Computing	B.E (CSE,ECE), B.Tech
2	Analytic Computing	B.E (CSE,ECE), B.Tech
3	Cloud Computing	B.E (CSE,ECE,EEE), B.Tech
4	High Speed Networks	B.E (CSE,ECE), B.Tech
5	Service Oriented Architecture	B.E (CSE), B.Tech

4. Annual/ semester/choice based credit system :  
 Semester Based Credit System : 2011 & 2013 Regulation  
 Semester & choice based credit system : 2015 Regulation

5. Participation of the department in the courses offered by other departments

S. No	Interdisciplinary courses offered	Names of the Departments involved
1	Data Structures and Algorithms	B.E (EEE,EIE)
2	Data Structures and Algorithms Lab	B.E (EEE,EIE)
3	C++ and Data Structures	B.E(ECE)
4	C++ and Data Structures Lab	B.E(ECE)
5	Fundamentals of Computing	B.E(Mech, EEE, EIE)
6	Computer Practice I & II Lab	B.E(Mech, EEE, EIE)
7	Operating System	B.E(EEE)
8	Object Oriented Programming	B.E (EEE,EIE)
9	Computer Networks	B.E(EEE)

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

	Sanctioned	Filled
Professor		3
Associate Professors		1
Asst. Professors		34

**7. Faculty profile with name, qualification, designation, specialisation (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
Dr.B.Paramasivan	M.E., Ph.D	Prof.& Head	Wireless Sensor Network	26.7	*15 (5- Completed)
Dr.V.Gomathi	M.Tech, Ph.D	Professor	Video Data Analysis	18.7	*6
Dr. V. Kalaivani	M.E. Pd.D	Professor	Web Mining	18.6	*5
Dr.K.Mohaideen Pitchai	M.E	Asso.Prof.	Wireless Sensor Network	13.9	-
Ms.V.Vimala	M.E.	Asst.Prof. (SG)	Computer Science and Engineering	15.7	-
Mr.S. Ananthakumaran	M.C.A M.E	Asst Prof. (SG)	Computer Science and Engineering	14.6	
Ms.M.Bhuvaneswari	M.Tech	Asst.Prof. (SG)	Computer Science and Engineering	11.7	-
Ms.J.Naskath	M.E	Asst.Prof. (SG)	Computer Science and Engineering	10.9	-
Ms.M.Jaya Lakshmi	M.E	Asst.Prof. (SG)	Computer Science and Engineering	12.5	
Ms.R.Rajakumari	M.C.A, M.E	Asst.Prof. (SG)	Computer Science and Engineering	7.8	
Mr.K.Maharajan	M.E	Asst.Prof. (SG).	Wireless Sensor Networks	11.8	
Ms.M.Stella Inba Mary	M.E	Asst.Prof. (SG)	Computer Science and Engineering	10.7	-
Mr. D. Vijayakumar	M.S	Asst Prof. (SG)	Computer Science and Engineering	16.5	
Ms. P. Bamaruckmani	M.C.A	Asst.Prof.		17.4	-
Ms.G.Sivakama Sundari	M.C.A, M.E	Asst.Prof.	Computer Science and Engineering	16.8	-

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
Ms. N. Jeyashenbagavalli	M.C.A M.E	Asst.Prof.	Computer Science and Engineering	7.6	
Ms. S. Kalaiselvi	M.C.A M.E	Asst.Prof.	Computer Science and Engineering	10.5	-
Mr. P.Ramkumar	M.E	Asst.Prof.	Computer Science and Engineering	6.4	-
Ms.G.R.Hemalakshmi	M.C.A., M.Tech	Asst.Prof.	Information Technology	9.2	-
Mr.V.Sivakumar	M.C.A, M.E	Asst.Prof.	Computer Science and Engineering	6.7	-
Ms. K.Vimala	M.C.A M.E	Asst.Prof	Computer Science and Engineering	6.2	
Ms.I.Muthu Selvi	M.E	Asst.Prof.	Computer Science and Engineering	5.6	-
Ms. V. Anusuya Devi	M.E	Asst.Prof.	Computer Science and Engineering	9.8	
Mr. R.Sabari Muthu Kumar	M.C.A M.E	Asst.Prof.	Computer Science and Engineering	7.4	
Ms.V.Subbulakshmi	M.C.A, M.E	Asst.Prof.	Computer Science and Engineering	5.7	-
Ms.S.Arunpriya	M.E	Asst.Prof.	Computer Science and Engineering	7.2	-
Ms.A.Sharmila Agnal	M.E	Asst.Prof.	Computer Science and Engineering	4.6	-
Mr.A.Shenbagaraman	M.E	Asst.Prof.	Computer Science and Engineering	3.6	-
Mr.K.Rajkumar	M.E	Asst.Prof.	Computer Science and Engineering	6.6	-
Ms. B. Shuunmugapriya	M.E	Asst.Prof.	Computer Science and Engineering	6.6	-
Mr.S.Dheenathayalan	M.E	Asst.Prof.	Computer Science and Engineering	6.8	-
Ms. S. Suganthi	M.C.A M.E	Asst.Prof.	Computer Science and Engineering	5.10	-
Dr. B. N. Prathibha	M.C.A	Asst.Prof.	Computer Science and Engineering	2.7	-

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
Ms. V. Jyothir Bindhu	M.E	Asst.Prof.	Computer Science and Engineering	4.7	-
Ms. S. Indhumathy	M.E	Asst.Prof.	Computer Science and Engineering	1.6	-
Ms. C. Umarani	M.E	Asst.Prof.	Computer Science and Engineering	1.6	-
Ms. M. Shyni Beaulah	M.E	Asst.Prof.	Computer Science and Engineering	0.6	-
Ms. M. S. Mumtaj Zaareena	M.E	Asst.Prof.	Computer Science and Engineering	0.6	-

\* - No. of Scholars doing Research

8. Percentage of classes taken by temporary faculty – programme-wise information - Nil

9. Programme-wise Student Teacher Ratio 15:1

S.No.	Programme	Student Staff Ratio
1	BE	14:1
2	ME	17:1
3	MCA	15:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

S. No	Staff Category	Sanctioned	Filled
1	Academic Support Staff	10	10
2	Administrative Staff	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.

a) National Funding Agencies

S.No.	Title of the Project	Name of the Faculty Involved	Funding Agency	Amount	Period
1	Intrusion prevention system for adhoc network security	Principal Investigator: <b>Dr.B.Paramasivan</b> Co-Investigator: <b>Mr.Mohaideen Pitchai</b>	AICTE	9.7 Lakhs	2012 - 2014
2	Design and Development of an Intelligent structural health monitoring system for a simply supported bridge using wireless sensor network	Principal Investigator: <b>Dr.B.Paramasivan</b> Co-Investigator: <b>Mr.Mohaideen Pitchai</b>	IE(I)	1.5 Lakhs	2012 - 2014
3	Modernization of common computing laboratory and establishment of cloud computing laboratory	<b>Dr.B.Paramasivan</b>	AICTE MODROBS	6.8 Lakhs	2012-2014
4	Development of an intelligent irrigation system using wireless sensor networks	Principal Investigator: <b>Dr.B.Paramasivan</b>	CSI	0.45 Lakhs	2012 - 2013
5	Development of an intrusion detection system for mobile adhoc networks using game theoretical models	Principal Investigator: <b>Dr.B.Paramasivan</b> Co-Investigator: <b>Mr.Mohaideen Pitchai</b>	DRDO	27.16 Lakhs	2011 - 2013
6	Real time multi human Tracking and activity recognition system	Principal Investigator: <b>Dr.K.Ramar</b> Co-Investigator: <b>Dr.V.Gomathi</b>	DST	Rs.14.41 Lakhs	2006-2009
7	Real time Human activity recognition system	Principal Investigator: <b>Dr.V.Gomathi</b>	AICTE	3.7 Lakhs	2006-2008

b) International Funding Agencies

Sl. No.	Project Title	Sponsored Agency	Sanctioned Amount	Duration
-	-	-	-	-

c) Total Grants Received – 64.16 Lakhs

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

S. No.	Title of the Project	Name of the Faculty Involved	Funding Agency	Amount	Period
1	Modernization of common computing laboratory and establishment of cloud computing laboratory	Dr.B.Paramasivan	AICTE MODROBS	6.8 Lakhs	2012- 2014

13. Research centre with

- State recognition
  - national recognition
  - International recognition
- State recognition

14. Publications:

\* number of papers published in peer reviewed journals (national / international) :

International Journals	: 58
National Journals	: 06
International Conferences	: 36
National Conferences	: 13

\* Monographs authored, Chapters authored in Books, Books edited ,  
Books authored with ISBN

S. No	Name of the faculty member	Monographs authored	Chapters authored in Books	Books edited	Books Authored with ISBN
-	-	-	-	-	-

\* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) Citation Index – range / average, SNIP, SJR, Impact Factor – range / average, h-index

S. No	Name of the faculty member	Number listed in Intl. database (Web of science, scopes science directory etc.	Citation index	h-index
1	Dr. B. Paramasivan	Scopus ID 24462275400	19	2
2	Dr. V. Gomathi	Scopus ID 56433311800	46	2
3	Dr.V.Kalaivani	Scopus ID 24832800200	11	2

15. Details of patents and income generated - Nil

S. No	Name of the faculty member	Patent Received	Income generated in Rs.
-	-	-	-

16. Areas of consultancy and income generated -

S. No	Name of the faculty member	Areas of consultancy carried out	Income generated in Rs.
1	CSE	K. R. Exports	Rs. 1,18,000/-
2	CSE	Inoval Engineers	Rs. 12,000/-

17. Faculty recharging strategies

Faculty are motivated to attend

1. Workshop
2. Seminar
3. National & International Conference
4. Participating Industry Orientation Programs
5. Industrial Visits
6. Faculty Development Programs.
7. Staff Development Programs.
8. Train the Trainers Programs
9. Conventions and Conferences
10. Orientation Programs

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

S. No.	Project Title	Project duration	Funded By	Status
1	Development of automatic GSM based ICU patient oxygen and saline level monitoring system	6 Months	Institution of Engineers India IE(I), Kolkatta.	Ongoing

S. No.	Project Title	Project duration	Funded By	Status
2	RFID based Traffic control and monitoring system	7 Months	Institution of Engineers India IE(I), Kolkatta.	Completed
3	Development of smart security system for ATM related fraud transactions	6 Months	TNSCST	Completed
4	Automated Highway System	6 Months	TNSCST	Completed
5	Design of an adaptive coal mine rescue robot using wireless sensor networks	9 Months	Institution of Engineers India IE(I), Kolkatta.	Completed
6	Voice Operated Intelligent Fire Extinguishing Robot	6 Months	Institution of Engineers India IE(I), Kolkatta.	Completed
7	Design and Development of an intelligent structural health monitoring system for a simply supported bridge using wireless sensor network	2 Year	Institution of Engineers India IE(I), Kolkatta.	Completed
8	Development of an intelligent irrigation system using wireless sensor networks	10 Months	Computer Society of India (CSI), Kolkatta.	Completed

S. No.	Percentage of Students Projects	
	In house and Interdepartmental	Collaboration with Industries/ Institutes
1	93.2	6.8

19. Awards / recognitions received at the national and international level by

- Faculty

S.No	Name of the Staff	Award	Year
1	Dr. B. Paramasivan	IEEE Senior Member	2015
2	Dr. B. Paramasivan	IEEE(ITS) - Chairman	2015
3	Dr. B. Paramasivan	Fellow IE(I)	2010
4	Dr. V. Gomathi	Young Engineer Award	2009

- Doctoral / post doctoral fellows

S.No	Name of the doctoral/ post doctoral fellow	Awards/ Recognition received	
		National	International
-	-	-	-

- Students

S.No	Name of the Student	Award	Year
1	G.Rajendra kannammal	Best Paper- Anna university regional center, coimbatore	2015
2	R.Niranjana Devi	Best Paper - Sathyabama UNiversity	2012
3	R. Sivagami (IV B.E)	Best Project – TNSCTC Best Exhibition - TNSCST	2011
4	Ms. R Femila Goldy	Best Paper – Noorul Isslam University	2010
5	Ms. G. Jini Mol	Best Paper - Noorul Isslam University	2010

20. Seminars / Conferences / Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

National

S. No	Seminars / Conferences / Workshops	Funding Source	Details of Participants
1	Workshop on “Advancements in Visual Sensor Network and its impact on Public Safety and Security” on 08.01.15 & 09.01.15.	DST	30(approx)
2	Instructional Workshop on “Formal Methods in Cryptography” on 08.01.15 & 09.01.15	CRSI	35(approx)
3	Three Days “Entrepreneurship Awareness Camp” on 29.12.2014 to 31.12.2014	EDI Gujarat	40(Approx)
4	FDP on “Mobile Application Development using Android: A Next Generation Technique” on 14.11.2014&15.11.2014	IEEE (CS)	150(approx)
5	Two days workshop ANIMATE on “Digital Animation Technique” 24.09.2014 & 25.09.2014	IEEE Madras section.	150(approx)
6	FDP on ‘Mobile and pervasive computing’ on 11.06.14 to 18.06.14	AU, Chennai	25(approx)
7	Short term Training Programme on “High Speed Networks” from 12.05.2014 to 19.05.2014	ISTE-SRM University	25(approx)
8	National conference on Image	CSIR	25(approx)

<b>S. No</b>	<b>Seminars / Conferences / Workshops</b>	<b>Funding Source</b>	<b>Details of Participants</b>
	Processing and Networking in the year 2013.		
9	Instructional course on “Computational Complexity” on 27.09.2013 & 28.09.2013	IARCS.	40(Approx)
10	Seminar on “Recent Advances and Emerging Trends in Life Science Research in BIOCLOUD: Bioinformatics using Cloud Computing Technologies” on 20.09.2013 & 21.09.2013	DBT	40(Approx)
11	Seminar on “Language based Formal Methods and Verification Techniques for Security” on 02.08.2013 & 03.08.2013	DRDO	40(Approx)
12	Seminar on “Latex Essentials for Beginners” on 14.06.13 & 15.06.13	AICTE	40(Approx)
13	One week Faculty Development Training Programme on “ Theory of Computation” from 03.06.13 to 10.06.13	AU, Chennai	25(Approx)
14	National level Seminar on Research Issues and Challenges in Cognitive Science	DST	40(Approx)
15	National Level Faculty Development program on “ A Research Perspective Issues on Human Computer Interaction = Ubiquitous + Pervasive + Haptic Technologies”	IEEE Madras Section	42 (Approx)
16	National Level Seminar on “Research Issues in Soft Computing Techniques for Nuclear Energy Systems” September 2012	BRNS	45 (Approx)
17	National level Seminar on “Semantic information Retrieval from medical Database for Clinical Decision Support System” on 6 <sup>th</sup> & 7 <sup>th</sup> of April 2012.	CSIR	55 (Approx)
18	National level Seminar on “Game theoretical models for problem solving in Wireless Network” on 20 <sup>th</sup> & 21 <sup>st</sup> January 2012.	NBHM	45 (Approx)
19	National Level Workshop on Research	CIIL	45 (Approx)

S. No	Seminars / Conferences / Workshops	Funding Source	Details of Participants
	Opportunities in Machine Learning and Natural Language Processing		
20	National Level Seminar on “Research Challenges in Natural Language Processing” 2011	DRDO	50 (Approx)
21	National level Seminar on “Research Issues in Computer Simulation and Modelling for Advanced Nuclear Energy Systems” on 15 <sup>th</sup> & 16 <sup>th</sup> July 2011.	BRNS	42 (Approx)
22	National Level Seminar on “Research Challenges and Trends in intelligent web for information Retrieval” during 18.03.2011 & 19.03.2011.	DRDO	43 (Approx)
23	National Level Seminar on “New Fangled Architecture – Spawning Network” during 18.02.2011 & 19.02.2011.	DST	50 (Approx)
24	National Level Seminar on “Research Issues in Wearable Computing” during 28.01.2011 & 29.01.2011.	CSIR	45 Approx)

21. Student profile course-wise:

	Year	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
BE	2011 -2015	-	52	95	63.46	95.78
ME	2013 – 2015		3	15	100	100
MCA	2012 – 2015		11(10)	49	70	97.96

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
BE	-	100	-	-
ME	20	80	-	-
MCA	-	100	-	-

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

S. No	Name of the competitive Examination	Number of students cleared
1	Civil Services	-
2	Defense Services	-
3	NET	-
4	SLET	-
5	GATE	1
6	any other competitive examinations	-

24. Student progression

Student progression	Percentage against enrolled (2012 – 2015 Batch)
UG to PG	6.12
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	30
Entrepreneurs	-

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	92.10
from other universities within the State	7.9
from other universities from other States	-

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. Ph.D – 4

No. of faculty who were awarded Ph.D	Details of the Faculty
4	1. Dr. B. Paramasivan, Prof. & Head 2. Dr. V. Gomathi, Prof. 3. Dr. V. Kalaivani, Prof. 4. Dr. K. Mohaideen Pitchai, Asso. Prof.

27. Present details about infrastructural facilities with regard to Library, Internet facilities for staff and students, Total number of class rooms, Class rooms with ICT facility, Students' laboratories, Research laboratories

S.No.	Name of the Infrastructural Facility	Quantity / Details
1	Library(Department Library)	1200 Books (Titles – 900)
2	Internet facilities for staff	171 Mbps
3	Internet facilities for student	
4	Total number of class rooms	12
5	Class rooms with ICT facility	3
6	Students' laboratories	6
7	Research laboratories	2

28. Number of students of the department getting financial assistance from College.  
Every year one student selected from I Year for Dr. Kannapan memorial scholarship and financial assistant will be provided to the student for the period of 4 Years.

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.
- Discussion with the Management, Director, Principal, Deans & HOD's
  - Based on the demand of the program – single window system.
  - Considering the suggestion given by the stakeholders

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 Board of Studies delegates the curriculum and detailed syllabus design among their faculty members. Based on their past experiences, the curriculum is enhanced to strengthen the Knowledge areas of learners.

Also, during the time of content delivery, the class committee forum will obtain teaching-learning-evaluation feedback from student representatives and suggest corrective mechanisms.

The faculty members are responsible to report the weak

learners and conduct special coaching classes to improve their studies.

The student's Counselor/Tutor evaluates the outcome of their wards and advice them through HoD and Principal and intimate the same to Parents. This enriches the Parents Teachers Association.

- b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Feedbacks are obtained from each student for each subject at the end of every semester and it is summarized. Based on the feedback, Suggestions and requisitions are given to the faculty members in the department meeting at the beginning of every semester.

- c. Alumni and employers on the programmes and what is the response of the department to the same?

Alumni's gives their feed back when they visit to the college. They enlighten the major expectation of the industry and motivate the students through career guidance programme, Guest Lectures, Seminars which trains the student for the expectation of industry.

31. List the distinguished alumni of the department (maximum 10)

<b>S. No.</b>	<b>Name of the Distinguished Alumni</b>	<b>Details of Occupation</b>
1	Mr. M. Saravanan	CEO, VRS College of Engg. & Tech, Villupuram
2	Mr. Anand Daga	Matrix Multimedia Solutions, Coimbatore
3	Mr. S. Muthusamy	Director, Beinge Infospital Technologies Pvt Ltd.
4	Mr. Muthiah Pillai	Bits Computer Systems, Tirunelveli
5	Mr. C. Somu Chockalingam	Doyensys Software Private Ltd, Chennai
6	Mr. V. Suresh	Chief Information Officer, Jumbo Electronics Corporation Ltd., Dubai
7	Mr. Paul Ravi	Vice President, Toyato Tsusho N/W Integration, Bangalore
8	Mr. Uma Shankar	Vice President, CTS, Hyderabad
9	Mr. Ram Narayanan	Senior Director, CTS Chennai
10	Mr. Sri Ranga Narayanan	Vice President, HP, Chennai

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

<b>S.No</b>	<b>Title of the special lecture / workshop / seminar organized</b>	<b>Experts Name</b>
1	Internet of things	Dr. Nirmalya Roy University of Maryland Baltimore County
2	Online Programming Practices	Dr. Jeya Kesava Veerasamy The University of Texas at Dallas
3	Time Frequency Analysis	Dr. Ram Bilas Pachori Indian Institute of Technology, Indore
4	Spectral Analysis	Dr. Sabari Malai Manikandan Indian Institute of Technology, Bhubaneswar
5	Imaging Arithmetic Physics U Maths > Physics + Maths	Dr. Gaurav Sharama University of Racheater
6	Media Security : A Set theoretic Faramework for Data Hiding	Dr. Gaurav Sharama University of Racheater
7	Cisco Meet	Dr. Jegan Jothi Vel
8	Motivational Programme on “Development of Entrepreneurship”	Mr. Naveen Gorky Managing Director, Gorky Software Priavte Limited
9	Android and its Applications	Mr.Praveen, Senior System Programmer,Infosys Mr.S.Jeyakrishnan CEO,Perpetro Technologies
10	Expert Talk- FOSS	Mr.V. Srinivasa Ragavan, CEO, Nirals Information Tech. Pvt. Ltd, Bangalore
11	ANIMATE- (A Two Day National Level Workshop)	1.Mr.Anand Daga, CEO, Matrix Media Pvt.Ltd, Coimbatore 2. Mr.S.Jeyakrishnan CEO,Perpetro Technologies
12	FDP on Mobile Application Development : A Next Generation Technique	Mr.Saravanan, Senoir Programmer, TCS, Chennai

33. List the teaching methods adopted by the faculty for different programmes.
1. Black Board Teaching
  2. Power Point Presentation
  3. Group Discussions
  4. Quiz Program
  5. Referring Internet for Demonstration
  6. Analogy based teaching
  7. Home Assignments, Class Assignments, Programming Assignments
  8. NPTEL Videos, Online Certifications
  9. Online Tutorials
  10. Animations
  11. Technical Story Boarding
  12. Debates

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

Per unit, Internal test was conducted and evaluated then the performance were analyzed in the class committee meeting in front of the committee chair person, class committee student members, subjects handling staff, tutors and the class in charge. In that the difficulties faced by the student and staff are appraised then the class committee chair person discuss with HOD and sort out the problems

**35. Highlight the participation of students and faculty in extension activities.**

1. Students are motivated to participate in national level Technical Symposium, Competitions conducted by company.
2. Workshops, Hands-on training, seminars are conducted for the students to develop their technical skills.
3. Students are encouraged to attend the internship programs and implant training in industries / research institution
4. Students are encouraged to showcase their talents in projects shows and science Exhibition

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- College Motivate the student to attend
  - Value added Course like CISCO, IBM and HCL
  - Continuing education programs like C,C++,JAVA, Web Development & Animation Tools
  - BEC Course, Online test to enrich their Communication Skills
- Institution Allows the student for Implant Training, Internship Programs and Industrial Visit every year

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

S. No.	Name of accredited/ graded agencies
1	National Board of Accreditation
2	Tata Consultancy Service
3	Institute of Engineers (India)

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

Strength:

- 100% computer enabled student centric facilitation center and impart quality education to students and to prepare the prospective engineers to shoulder key positions in vital industries, research departments of national and international importance.
- The latest advancements in the fields of technology and current affairs have been brought in for the easy access of the students through technical forums like IBM Centre of Excellence, CISCO Academy, CSE Association, IEEE – Computer Society and CSI student’s chapter.
- Mentors are constantly providing care for students in solving their socio-technical issues.
- Prompt to ensure the excellence of the students by arranging periodical seminars on current technical development.

Weakness:

International Collaboration was initiated and it should be strengthened in coming years

Opportunities:

- Provide better opportunities for our faculty and students to engage in professional consultancy services to the industries and government sectors.
- Student’s project internship is encouraged in industries and national research laboratories.
- MoUs are launched with Reputed Companies like IBM, CISCO, CSC, ICTACT, ACME, SUM-TWO and Spime technologies to bridge the Institution-Industry gap.
- DST, AICTE, IGCAR, CSIR, BRNS, UGC etc., are constantly supporting financially for contributing innovative ideas towards the productive socio-economic growth of our nation.
- NPTEL Courses, Industrial Certifications are provided to enrich knowledge for both student and staff
- Intensive soft skills training program and extensive counseling sessions for students

- Establish industry / academic interactions or collaborations with regional / national / international bodies.

Challenges:

To motivate all staff members in international collaboration.

**39. Future plans of the department.**

Education plans for the next five years:

- Provide better opportunities for our faculty and students to engage in professional consultancy services to the government sectors.
- To encourage the students to become entrepreneurs.
- To promote study-abroad and student exchange programme for higher semester students.

Research plans for the next five years:

- Strengthening of linkages with DST, AICTE, IGCAR, CSIR, BRNS, UGC etc. for contributing towards the productive socio-economic growth of our nation.
- To have research tie-ups with internationally reputed institutions.
- To ensure that every faculty member is a doctorate and engage in research
- Patenting the innovative research work being carried out in the department.
- To take part in resolving the national/international issue and challenges in major areas such as,
  - (i) Disaster management
  - (ii) Environment monitoring
  - (iii) Remote surveillance
  - (iv) Deliverable automated products

### Evaluative Report of the Department

1. Name of the Department & its year of establishment: Mechanical Engineering - 1984.
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

UG – B.E Mechanical

Sl. No.	Name of the program offered	Remarks (UG, PG, M.Phil., Ph.D.,)
1	Mechanical Engineering	B.E. (Full Time)
2	Manufacturing Engineering	M.E. (Full Time & Part time)
3	Energy Engineering	M.E. (Full Time & Part time)
4	Ph.D	Part Time

3. Interdisciplinary courses and departments involved:

Sl. No.	Interdisciplinary courses offered	Name of the department involved
1	Electrical drives and control	EEE
2	Electronics and Micro processor	EIE
3	Instrumentation and Control Systems	EIE
4	Fourier Transforms and Complex Analysis	Maths
5	Communication skills and Technical Seminar	English
6	Probability, Statistics and Numerical Methods	Maths

4. **Annual/ semester/choice based credit system**

Semester based credit system for R2011 and R2013

Choice based credit system R2015

5. **Participation of the department in the courses offered by other departments:**

Sl. No.	Name of the courses handled for other departments	Name of the other departments
1	Engineering Practices lab	ECE,EEE,IT,CSE,EIE,CIVIL
2	Engineering Graphics	ECE,EEE,IT,CSE,EIE
3	Basic Civil and Mechanical Engineering	ECE,EEE,IT,CSE,EIE

Sl. No.	Name of the courses handled for other departments	Name of the other departments
4	Power Plant Engineering	EEE
5	Resource Management Techniques	MCA
6	Principles of Management	ECE, EEE, CSE, IT
7	Solar photovoltaic Fundamentals and its applications	EEE
8	Industrial Safety Engineering	EEE

**6. Number of teaching posts sanctioned and filled  
(Professors/Associate Professor/Asst. Professors):**

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph. Students guided in the last 4 years
Dr.K.Kalidasa Murugavel	Ph.D	Professor & Head	Solar Energy	30	12
Dr.H.Kanagasabapathy	Ph.D	Professor	FEM	27	9
Mr.G.Essakimuthu	M.E.	Associate Professor (SG)	Industrial safety engineering	29	-
Dr.T.Vigraman	Ph.D	Associate Professor	Welding	16	1
Mr.S.Iyahraja	M.Tech.	Associate Professor	Thermal Engineering	16	-
Mr.D.Venkat kumar	M.E.	Assistant professor (SG)	CAD/CAM	14	-
Mr.M.Kathiresan	M.E.	Assistant professor (SG)	CAD/CAM	12	-
Mr.S.Muthu kumar	M.E.	Assistant professor (SG)	CAD	9	-
Mr.R.Harichandran	M.E.	Assistant professor (SG)	CAD	9	-
Mr.S.Arulselvan	M.E.	Assistant professor (SG)	Production Engineering	10	-
Mr.I.Sankar	M.E.	Assistant professor (SG)	Manufacturing Engineering	7	-
Mr.D.Vignesh Kumar	M.E.	Assistant professor (SG)	Manufacturing Engineering	8	-
Mr.F.Michael Thomas Rex	M.E.	Assistant professor	Engineering Design	6	-
Mr.S.Namachivayam	M.E.	Assistant professor	Manufacturing Engineering	2	-

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph. Students guided in the last 4 years
Mr.B.Prince Abraham	M.E.	Assistant professor	Manufacturing Engineering	2	-
Mr.R.Vijayakumar	M.E.	Assistant professor	Energy Engineering	2	-
Mr.M.Karuppaiah Rajkumar	M.E.	Assistant professor	Engineering Design	1	-
Mr.S.Vinothkumar	M.E.	Assistant professor	Manufacturing Engineering	1	-
Mr.P.Samuel Ponraj	M.E.	Assistant professor	Thermal Engineering	1	-
Mr.Jabinth	M.E.	Assistant professor	Engineering Design	1	-
Mr.A.Arul Marcel Moshi	M.E.	Assistant professor	Engineering Design	6 months	-
Mr.B.Vijaya Baskar	M.E.	Assistant professor	Manufacturing Engineering	6 months	-
P.Siva chithambaram	M.E.	Assistant professor	Engineering Design	4	-

Sl. No.	Name of the Teaching Post	B.E. Mechanical Engineering		M.E. Production Engineering		M.E. Energy Engineering	
		Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled
1	Professor	01	02	1	1	1	1
2	Associate Professor	02	03	-	-	-	-
3	Asst. Professor	25	18	2	3	2	3

**7. Faculty profile with name, qualification, designation, specialization**

**M.E. Manufacturing Engineering**

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph. Students guided in the last 4 years
Dr.K.Manisekar	M.E. Ph.D	Professor	Metal forming	24	8
Dr.N.Lenin	M.E. Ph.D	Assistant Professor (SG)	Optimization	9	-
Mr.L.Vadivel	M.E.	Assistant	Engineering	7	-

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph. Students guided in the last 4 years
Kannan		Professor (SG)	Design		
Mr.S.R.Sundara Bharathi	M.E	Assistant Professor	Manufacturing Engineering	1	-

### M.E. Energy Engineering

Name	Qualification	Designation	Specialization	No. of years of experience	No. of Ph. Students guided in the last 4 years
Dr.D.Ravindran	M.E. Ph.D	Professor	Production	30	12
Mr.P.Ramanan	M.E.	Assistant Professor (SG)	Engineering Design	15	-
Mr.A.Karthick	M.E.	Assistant Professor	Energy Engineering	3	-
Mr.R.Vignesh Kumar	M.E	Assistant Professor	Energy Engineering	4	-

8. Percentage of classes taken by temporary faculty – programme-wise information: Nil

9. Programme-wise Student Teacher Ratio:

Sl.No.	Name of the Programme	Student-Teacher Ratio
1	U.G.Mechanical Engineering	15:1
2	P.G. Production Engineering	4:1
3	P.G. Energy Engineering	4:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled:

Staff Category	Sanctioned	Filled
Technical Staff	18	18
Administrative Staff	02	02

### Technical Staff:

Sl. No.	Laboratory	Name of the Tech. Staff	Designation	Qualification
1	Machine shop	Mr. A.Arumugam	Machinist	N.T.C
2	Machine shop	Mr.C.Rathakrishnan	Turner	N.T.C
3	Machine shop	Mr.C.Balasubramanian	Turner	N.T.C
4	Work shop	Mr.S.Balasubramani	Welder	N.T.C

<b>Sl. No.</b>	<b>Laboratory</b>	<b>Name of the Tech. Staff</b>	<b>Designation</b>	<b>Qualification</b>
5	Work shop	Mr.M.Ponmadasamy	Black smithy	N.T.C
6	SM Lab	Mr.K.Varadharaj	Lab technician	N.T.C
7	HMT lab	Mr.V.Ravikumar	Diesel mechanic	N.T.C
8	Hydraulics lab	Mr.A.Marimuthu	Plumber	N.T.C
9	Dynamics lab	Mr.S.Tamil Selvan	Moulder	N.T.C
10	A/C Mechanic	Mr.C.Thangamari	A/C Mechanic	H.S.C.
11	CAD lab	Mr. K. Ramamoorthy	Lab technician	D.M.E
12	Advanced computing lab	Mr.M.Ravi	Lab technician	D.M.E
13	Metrology lab	Mr.Manikandan	Fitter	N.C.V. T
14	Work shop	Mr.K.Sankar Ganesh	Fitter	N.T.C
15	A/C Mechanic	Mr.P.Madhukumar	A/C Mechanic	N.C.V. T
16	Energy lab	Mr.A.Ayyasamy	Lab technician	I.T.I
17	Work shop	Mr. S.Srishedri	Carpenter	N.C.V. T
18	HMT lab	Mr.R.Sathish Kumar	Lab technician	D.M.E

**Administrative Staff:**

<b>Sl. No.</b>	<b>Name of the Staff</b>	<b>Place of work</b>	<b>Designation</b>	<b>Qualification</b>
1	Mr.S.Palraj	Department office	Office Assistant	M.C.A.
2	Mr.Balamurugan	Department office	Attender	E.S.S.L.C.

**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.**

**a) National Funding Agencies**

S. No	Title of the Project	Principal Investigator	Co-investigator	Funding Agency	Amount (Rs)	Period	Status
1	Labview Integrated Performance Monitoring and Analyzing Energy Data of Co-Located PV Power Plants with Different Technologies	Dr. K. Kalidasa Murugavel		AICTE, New Delhi (RPS Scheme)	12,50,000	3 years (2013-16)	Ongoing
2	Experimental Study on Solar Steam Generation System with Compressed Water Thermal Energy Storage System	Dr. K. Kalidasa Murugavel		DST, New Delhi (Solar Energy Research Initiative (SERI))	38,91,000	2 years (2014-16)	Ongoing
3	Optimization of grain size for improving the creep properties of 304HCu stainless steel	<i>Dr. D.Ravindran</i>	Dr.S.L.Mannan	BRNS, Mumbai	33,52,000	3 years (2014-17)	Ongoing

**b)International Funding Agencies**

S.No	Title of the Project	Sponsored Agency	Sanctioned Amount	Duration
-	-	-	-	-

c) Total Grants Received –1.33 crores (including completed projects)

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received - NIL

13. Research centre with

- State recognition
- National recognition
- International recognition

Sl. No.	Name of the Research Facility / Centre	Type of Recognition
1	Mechanical Engineering Research Centre	Anna University Recognition

14.Publications:

\* number of papers published in peer reviewed journals (national / international) :

**List of Publications:  
List of International Journals:  
Academic year (2012 – 13)**

S.No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
1	T.Vigraman	Diffusion bonding of AISI 304L steel to low-carbon steel with AISI 304L steel interlayer	Materials & Design	Volume 34, Pages 594–602	February 2012,	-
2	T.Vigraman	Microstructure and mechanical property evaluation of diffusion-bonded joints made between SAE 2205 steel and AISI 1035 steel	Materials & Design	Volume 35, Pages 156–169	March 2012,	-
3	A.Razal Rose	Influences of tool rotational speed on tensile properties of friction stir welded AZ61A magnesium alloy.	Journal of Engineering manufacture	vol. 226 no. 4 649-663	April 2012	-
4	T.Vigraman	Effect of phase transformation and intermetallic compounds on the microstructure and tensile strength properties of diffusion-bonded joints between Ti–6Al–4V and AISI 304L	Materials & Design	Volume 36 pp 714-727	April 2012	-
5	A.Razal Rose	Prediction and optimization of pulsed current tungsten inert gas welding parameters to attain maximum tensile strength in AZ61A magnesium alloy.	Materials & Design	Volume 37 Pages 334–348	May 2012	-
6	Dr.D.Ravindran	Influence of fibre treatments on mechanical properties of short <i>sansevieria cylindrical</i> polyester composites	Materials & Design		May 2012	-

S.No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
7	Dr.D.Ravindran	Optimization of Wind Turbine Power Coefficient parameters using Hybrid Technique	Journal of The Institution of Engineers (India): Series C		June 2012	-
8	Mr.G.Selvakumar	Experimental investigation on die corner accuracy for wire electrical discharge machining of Monel 400 alloy	Journal of Engineering manufacture		Oct 2012	-
9	Dr.D.Ravindran	Multi-objective optimization in single-row layout design using a genetic algorithm	The International Journal of Advanced Manufacturing Technology		Nov 2012	-
10	Dr.D.Ravindran	Multi-objective optimization for optimum tolerance synthesis with process and machine selection using a genetic algorithm, Technology	The International Journal of Advanced Manufacturing Technology		Nov 2012	-
11	Mr.M.Kathiresan	Performance analysis of fibre metal laminated thin conical frusta under axial compression	Composite Structures		Dec 2012	-
12	Mr.G.Selvakumar	Experimental Analysis on WEDM of Monel 400 alloys in a range of thicknesses	Journal of Modern manufacturing Technologies		2012	-
13	D.Ravindran	Determination of Electro Discharge Machining Parameters in AISI202 Stainless Steel Using Grey Relational Analysis	Procedia Engineering	Vol. 38 pp 4005-4012	2012	-

S.No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
14	D.Ravindran	Influence of fibre treatments on mechanical properties of short <i>sansevieria cylindrical</i> polyester composites	Materials & Design	Vol. 37 pp 111-121	2012	-
15	D.Ravindran	Multi-objective optimization in single-row layout design using a genetic algorithm	The International Journal of Advanced Manufacturing Technology		2012	-
16	D.Ravindran	Iterative approach of optimizing co-efficient of power, co-efficient of lift and drag of wind turbine rotor	Renewable Energy, UK, Elsevier	Vol 38 (1), pp 83-93	2012	3.200
17	D.Ravindran	Diffusion bonding of AISI 304L steel to low-carbon steel with AISI 304L steel interlayer	Journal of Materials and Design	Vol 34, pp 594-602	2012	2.200
18	D.Ravindran	Microstructure and mechanical property evaluation of diffusion-bonded joints made between SAE 2205 steel and AISI 1035 steel	Materials & Design	Vol.35, pp 156-159	2012	2.200
19	D.Ravindran	Optimization of Wind Turbine Power Coefficient parameters using Hybrid Technique	Journal of The Institution of Engineers	Vol. 93 (2) pp 141-149	2012	-
20	D.Ravindran	Compression behavior of adhesive butt joints of Aluminum hexagonal core sandwich panels with different edging configurations	Advanced Material research	Pp 737-741	2012	-

S.No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
21	D.Ravindran	Effect of phase transformation and intermetallic compounds on the microstructure and tensile strength properties of the diffusion-bonded joints Ti-6Al-4V and AISI304L	Materials and design	Vol.36, pp 714-727	2012	2.200
22	D.Ravindran	Influence of fibre treatments on mechanical properties of short Sansevieriacylindrica/polyester composites	Materials & Design	Vol. 37, pp 111-12	2012	2.200
23	S. Babu, K. Manisekar & M.S. Starvin	Experimental Investigation of Friction Effect on Linear Model Rolling Bearings for Large Diameter Thrust Bearing Design	<i>Tribology in Industry</i>	Vol. 34, No. 3, 111-118,	2012	-
24	Kathiresan, M., Manisekar, K. & Manikandan, V	Performance analysis of fibre metal laminated thin conical frusta under axial compression	Composite Structures	pp.3510-3519 & 94 (12)	2012	-
25	Ravindran P., Manisekar K. & Narayanasamy, P., Selvakumar, N., Narayanasamy, R	Application of factorial techniques to study the wear of Al hybrid composites with graphite addition	<i>Materials and Design</i>	pp. 42-54 & 39,	2012	-
26	Razal Rose, A., Manisekar, K. & Balasubramanian, V., Rajakumar, S	Prediction and optimization of pulsed current tungsten inert gas welding parameters to attain maximum tensile strength in AZ61A magnesium alloy	<i>Materials and Design</i>	pp.334-348 & 37	2012	-
27	Rose, A.R., Manisekar, K. & Balasubramania, V	Influences of tool rotational speed on tensile properties	Proceedings of the Inst. of Mech	pp. 649-663 & vol 226 (4)	2012	-

S.No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
		of friction stir welded AZ61A magnesium Alloy	Engineers, <i>Part B: Journal of Engineering Manufacture</i>			
28	Kumar, P.S., & Manisekar, K,	Wear and mechanical properties of sintered Cu-SnMoS <sub>2</sub> Powder pre-forms at dry atmospheric condition	<i>European Journal of Scientific Research</i>	pp. 148-155, Vol.72(1)	2012	-
29	Sree Manu, K.M., Resmi, V.G., Brahmakumar, M., Anand, N., Rajan, T.P.D., Pavithran, C., Pai, B.C., & Manisekar, K,	Synthesis of porous SiC preform and squeeze infiltration processing of Aluminium-SiC Metal ceramic composites	<i>Materials Science Forum</i>	pp. 371-376, Vol. 710	2012	-
30	Razal Rose, A., Manisekar, K. & Balasubramanian, V	Influences of welding speed on tensile properties of friction stir welded AZ61A magnesium alloy	Journal of Materials Engineering and Performance	pp. 257-265 & Vol.21 (2)	2012	-
31	A. Razal Rose	Friction Stir and Pulsed Current Gas Metal Arc Welding of AZ61A Magnesium Alloy: A Comparative Study	Materials and Design	Vol. 49 Pages 267-278	Feb 2013	-
32	A. Razal Rose	Friction Stir Welding of AZ61A Magnesium alloy, A Parametric Study	International Journal of Advanced Manufacturing Technology	Vol. 68 Pages 277-292	March 2013	-

**Academic year (2013 – 14)**

<b>S. No</b>	<b>Name of the authors</b>	<b>Title of the Paper</b>	<b>Name of Journal</b>	<b>Page No. &amp; Volume</b>	<b>Year of Publications</b>	<b>Impact Factor</b>
1	D. Ravindran	Simultaneous scheduling of machines and tools in multimachine flexible manufacturing systems using artificial immune system algorithm	International Journal of Computer Integrated Manufacturing		2013	
2	Dr.G.Selvakumar	Experimental investigation and multi-objective optimization of wire electrical discharge machining(WEDM) of 5083 aluminium alloy	Transactions of Nonferrous Metals Society of China		2013	
3	Mr.M.Kathiresan	Crashworthiness analysis of glass fibre / epoxy laminated thin walled composite conical frusta under axial compression	Composite Structures		2013	
4	T. Rajaseenivasan T. Elango Dr. K. Kalidasa Murugavel	Comparative study of double basin and single basin solar stills	Desalination	Vol. 309 pp. 27-31	2013	2.59
5	T. Rajaseenivasan Dr.K.KalidasaMuru gavel T.Elango R.Samuel Hansen	A Review of Different Methods to Enhance the Productivity of the Multi-Effect Solar Still	Renewable and Sustainable Energy Reviews	Vol. 17 pp. 248-259	2013	6.018
6	Dr.K.KalidasaMuru gavel P.AnburajR.Samuel HansonT.Elango	Progresses in inclined type solar stills	Renewable and Sustainable Energy Reviews	Vol. 20 pp. 364-377	2013	6.018
7	T.Rajaseenivasan, Dr.K.KalidasaMuru gavel	Theoretical and experimental investigation on double basin double slope solar still	Desalination	Vol. 319 pp. 25–32	2013	2.59
8	P.Anburaj,R.Samue lHansen, Dr.K.KalidasaMuru gavel	Performance of an Inclined Solar Still with Rectangular Grooves and Ridges	Applied Solar Energy	Vol. 49 No. 1, pp. 22–26	2013	-
9	S.Maheshwaran, Dr.K.Kalidasa Murugavel	Experimental Study on Spiral Flow Passive Solar Water Heater	Applied Solar Energy	Vol. 49 No. 2, pp. 89–92	2013	-

S. No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
10	V. Sriram, R. Samuel Hansen, Dr.K.KalidasaMurugavel	Experimental Study on a low pressure solar still	Applied Solar Energy	Vol. 49 No. 3, pp. 137–141	2013	-
11	Dr. K. KalidasaMurugavel, Dr. K. Srithar	Single Basin Double Slope Solar Still - Year Round Performance Prediction For Local Climatic Conditions At Southern India	Thermal Science	Vol 17 (Suppl. 2), Pages - S429 - S438	2013	1.21
12	D.Ravindran	ECM Parameters Modeling and Optimization Using WSGA, Applied Mechanics and Materials	Applied Mechanics and Materials	Vol. 423 pp 925-930	2013	
13	D.Ravindran	Evaluation of Elastic Constants of A3003 Honeycomb Core with Varying Hexagonal Cell Geometries Through Finite Element Approach	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science		2013	
14	P. Senthil Kumar, K. Manisekar, E. Subramanian & R. Narayanasamy	Dry sliding friction and Wear characteristics of Cu-Sn Alloy containing Molybdenum Disulphide	Tribology Transactions	Vol. 56, pp.857-866	2013	
15	P. Ravindran, K. Manisekar, S. Vinoth Kumar & P. Rathika	Investigation of Microstructure and Mechanical Properties of aluminium hybrid nano-composites with the addition of solid lubricant	Materials and Design	Vol. 51, pp.448-456	2013	
16	M.S.Starvin, S.Babu, SriramachandraAithal, K.Manisekar, & P. Chellapandi	Finite element simulation of non-linear deformation behaviour in large diameter angular contact thrust bearing,	Scientific Research and Essays	pp.128–138, Vol. 8(3),	2013	
17	R.Satheesh Raja, K.Manisekar&V.Manikandan	Effect of fly ash filler size on mechanical properties of polymer matrix composites	International Journal of Mining, Metallurgy and Mechanical Engineering (IJMMME)	pp.34-37, Vol.1, Issue.1	2013	

S. No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
18	P. Senthil Kumar & K Manisekar	Friction and dry sliding wear behavior of Powder Metallurgy Processed Cu-Tin Alloy with Molybdenum Disulphide Additions: a Factorial Design approach,	<i>International Review of Mechanical Engineering</i>	Vol.7, N7, pp.1355-1361	2013	
19	Ravindran, P., Manisekar, K., Narayanasamy, R. & Narayanasamy, P	Tribological behaviour of powder metallurgy processed aluminium hybrid composites with the addition of graphite solid lubricant	<i>Ceramics International</i>	Vol. 39 (2), pp.1169-1182	2013	
20	P Ravindran, K Manisekar, P Rathika & P Narayanasamy	Tribological properties of powder metallurgy–Processed aluminium self lubricating hybrid composites with SiC additions	<i>Materials &amp; Design,</i>	Vol. 45, pp.561-570	2013	
21	N. Lenin, M. Siva Kumar, D. Ravindran, D. Vignesh Kumar and M.N.Islam	Decision making in multi-objective facility layout design selection problem	Journal of Manufacturing Engineering	Vol. 8 (2) pp 105-113	2013	
22	T.Vigraman	Effect of Cu and Ni addition in Fe-Mn-Si Shape memory alloy	Volume 5, Issue 5	Volume 5, Issue 5	May-14	
23	T.Vigraman	Formation of Cu-Al-Ni Shape Memory Alloy with the Addition of Alloying Elements Mn and Si	International Journal of Scientific and Engineering Research	Volume 5, Issue 5	May-14	

#### Academic year (2014 – 15)

S. No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
1	N. Ponkarthik, Dr.K.KalidasaMurugavel	Performance enhancement of solar photovoltaic system using novel Maximum Power Point Tracking	Electrical Power & Energy Systems	Vol.60 pp.1-5	2014	3.432

S. No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
2	A. Wesley Jeevadason K.Kalidasa Murugavel, M.A. Neelakantan	Review on Schiff bases and their metal complexes as organic photovoltaic materials	Renewable and Sustainable Energy Reviews	Vol. 36 220–227	2014	5.627
3	Rajaseenivasan. T., KalidasaMurugavel. K., Elango, T.	Performance and exergy analysis of a double-basin solar still with different materials in basin	Desalination and Water Treatment	Pages1-9	2014	0.852
4	MuthuManokar, A., KalidasaMurugavel, K., Esakkimuthu, G.	Different parameters affecting the rate of evaporation and condensation on passive solar still – A review	Renewable and Sustainable Energy Reviews	<a href="#">Volume 38</a> , Pages 309–322	2014	5.627
5	K Devanarayanan, K KalidasaMurugavel	Integrated collector storage solar water heater with compound parabolic concentrator– development and progress	Renewable and Sustainable Energy Reviews	<a href="#">Volume 39</a> , Pages 51-64	2014	5.627
6	N. Ponkarthik, Dr.K.KalidasaMurugavel	Performance enhancement of solar photovoltaic system using novel Maximum Power Point Tracking	Electrical Power & Energy Systems	Vol.60 pp.1-5	2014	3.432
7	A. Wesley JeevadasonK.Kalidasa Murugavel, M.A. Neelakantan	Review on Schiff bases and their metal complexes as organic photovoltaic materials	Renewable and Sustainable Energy Reviews	Vol. 36 220–227	2014	5.627
8	Rajaseenivasan. T., KalidasaMurugavel. K., Elango, T.	Performance and exergy analysis of a double-basin solar still with different materials in basin	Desalination and Water Treatment	Pages1-9	2014	0.852
9	MuthuManokar, A., KalidasaMurugavel, K., Esakkimuthu, G.	Different parameters affecting the rate	Renewable and Sustainable	<a href="#">Volume 38</a> , Pages 309–322	2014	5.627

S. No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
		of evaporation and condensation on passive solar still – A review	Energy Reviews			
10	K Devanarayanan, K KalidasaMurugavel	Integrated collector storage solar water heater with compound parabolic concentrator– development and progress	Renewable and Sustainable Energy Reviews	<a href="#">Volume 39</a> , Pages 51-64	2014	5.627
11	V Krishnavel, A Karthick, KK Murugavel	Experimental Analysis of Concrete Absorber Solar Water Heating Systems	Energy and Buildings	Vol. 84, Pages 501-505	2014	2.465
12	N. Ponkarthik, Dr.K.KalidasaMurugavel	Performance enhancement of solar photovoltaic system using novel Maximum Power Point Tracking	Electrical Power & Energy Systems	Vol.60 pp.1-5	2014	3.432
13	A. Wesley JeevadasonK.Kalidasa Murugavel, M.A. Neelakantan	Review on Schiff bases and their metal complexes as organic photovoltaic materials	Renewable and Sustainable Energy Reviews	Vol. 36 220–227	2014	5.627
14	Rajaseenivasan. T., KalidasaMurugavel. K., Elango, T.	Performance and exergy analysis of a double-basin solar still with different materials in basin	Desalination and Water Treatment	Pages1-9	2014	0.852
15	MuthuManokar, A., KalidasaMurugavel, K., Esakkimuthu, G.	Different parameters affecting the rate of evaporation and condensation on passive solar still – A review	Renewable and Sustainable Energy Reviews	<a href="#">Volume 38</a> , Pages 309–322	2014	5.627
16	K Devanarayanan, K KalidasaMurugavel	Integrated collector storage solar water heater with compound	Renewable and Sustainable Energy	<a href="#">Volume 39</a> , Pages 51-64	2014	5.627

S. No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
		parabolic concentrator–development and progress	Reviews			
17	V Krishnavel, A Karthick, KK Murugavel	Experimental Analysis of Concrete Absorber Solar Water Heating Systems	Energy and Buildings	Vol. 84, Pages 501-505	2014	2.465
18	D.Ravindran	A Tabu Search for Multi-Objective Single Row Facility Layout Problem	Journal of Advanced Manufacturing Systems	Vol. 13 (01) pp 17-40	2014	
19	D.Ravindran	Simultaneous scheduling for machines and tools in multimachine flexible manufacturing systems using artificial immune system algorithm	International Journal of Computer Integrated Manufacturing	Vol.27 (05), pp 401-414	2014	
20	P S Kumar, K Manisekar, M Poovaragan and R Narayanasamy	Dry Sliding Wear Performance of Cu-Sn Composites Containing MoS <sub>2</sub> using the Taguchi Techniques,	Journal of the Balkan Tribological Association, Trans Tech Publications	Vol. 20, No.2, pp. 271-290	2014	
21	R.Karthikeyan, K.Manisekar, Venkata Subramanian	Study Of Microstructure And Mechanical Properties Of Cast And Forged Al-4.4cu Alloy	<i>IOSR Journal of Mechanical and Civil Engineering</i>	Pp 29-32	2014	
22	P. Senthil Kumar, K. Manisekar& R. Narayanasamy	Experimental and Prediction of Abrasive Wear Behavior of Sintered Cu-SiC Composites Containing Graphite by Using Artificial Neural Networks	<i>Tribology Transactions</i>	Vol. 57 pp 455-471	2014	
23	P. Senthil Kumar, K. Manisekar,	Dry Sliding wear performance of	<i>J. Balk TribolAssoc</i>	Book 2, Vol. 20	2014	

S. No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
	M.Poovaragavan&R.N arayanasamy	Cu-Sn Composites Containing MoS2 Using Taguchi techniques				
24	P. Senthil Kumar &K. Manisekar	Effect of MoS2 content on wear behavior of sintered Cu-Sn composite: A Taguchi approach: A comparative study using artificial neural networks	<i>Indian Journal of Engineering &amp; Materials sciences</i>	Vol.21, pp.1-13,	Dec 2014	
25	R. Sathesh Raja, K. Manisekar& V. Manikandan	Study on mechanical properties of fly ash impregnated glass fiber reinforced polymer composites using mixture design analysis	<i>Materials and Design</i>	Vol. 55 pp 499-508	2014	
26	M. Kathiresan, K. Manisekar&V.Manikandan	Crash worthiness analysis of glass fibre/epoxy laminated thin walled composite conical frusta under axial compression	Composite Structures	Vol. 108, pp.584–599	2014	
27	Dr. H. Kanagasabapathy	Condition monitoring of Self aligning carrying idler (SAI) in belt-conveyor system using statistical features and decision tree algorithm	<a href="#">Measurement</a>	pp: 274–279, <a href="#">Volume 58</a>	2014	
28	Dr. H. Kanagasabapathy	Dry sliding wear behaviour of al 7075 t6 coated by plasma spray process	Advanced materials research	pp: 551-556, Vols. 984-985	2014	
29	Dr. H. Kanagasabapathy	Evaluation of corrosion behaviour for aluminium alloy	Advanced Materials Research	pp: 557-563, Vols. 984-985	2014	

S. No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
		7075 in 5% NaCl solution under slightly varying temperature				
30	Dr. H. Kanagasabapathy	Parametric Analysis of Cotton Shell and Palmyra Palm Fruit Bunch for Bio Oil in Fixed Bed Pyrolysis System	International Journal of Applied Environmental Sciences	pp. 2427-2436, Volume 9, Number 5	2014	
31	Dr. H. Kanagasabapathy	Cotton shell utilization as a source of biomass energy for bio-oil by flash pyrolysis on electrically heated fluidized bed reactor	J Mater Cycles Waste Manag, Springer		2014	
32	Dr. H. Kanagasabapathy	Flash pyrolysis of Palmyra palm (Borassus flabellifer) using an electrically heated Fluidized bed reactor	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects Taylor & Francis,		2014	
33	Dr. H. Kanagasabapathy	Production and Characterization of phenolic compounds by flash pyrolysis of Palmyra palm	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Taylor & Francis		2014	

**Academic year (2015 – 16)**

S. No.	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
1	R.Satheesh Raja and K.Manisekar	Experimental and statistical analysis on mechanical properties of nanoflyash impregnated GFRP composites using	Materials and Design, Elsevier		Oct 2015	

S. No.	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
		central composite design method				
2	Dr. K. Kalidasa Murugavel and Srithar K	Effect of cover plate transmittance on solar still performance	International Journal of Green Energy	Vol.12 (4), PP - 431-439	2015	2.069
3	KS Maheswari, KK Murugavel, G Esakkimuthu	Thermal desalination using diesel engine exhaust waste heat—An experimental analysis	Desalination	Vol. 358, Pages 94-100	2015	3.96
4	RS Hansen, CS Narayanan, KK Murugavel	Performance analysis on inclined solar still with different new wick materials and wire mesh	Desalination	Vol. 358, Pages 1-8	2015	3.96
5	T Elango, KK Murugavel	The effect of the water depth on the productivity for single and double basin double slope glass solar stills	Desalination	Vol. 359, Pages 82-91	2015	3.96
6	T Elango, A Kannan, KK Murugavel	Performance study on single basin single slope solar still with different water nanofluids	Desalination	Vol. 360, Pages 45-51	2015	3.96
7	N Karthikeyan, KK Murugavel, SA Kumar, S Rajakumar	Review of aerodynamic developments on small horizontal axis wind turbine blade	Renewable and Sustainable Energy Reviews	Vol. 42, Pages 801-822	2015	5.510
8	P Durkaieswaran, KK Murugavel	Various special designs of single basin passive solar still—A review	Renewable and Sustainable Energy Reviews	Vol.49, Pages 1048-1060	2015	5.510
9	M Maria Antony Raj, K KalidasaMurugavel, T Rajaseenivasan, K Srithar	A review on flash evaporation desalination	Desalination and Water Treatment	Pages 1-10	2015	1.173
10	M. S. Starvin, K. Manisekar, A. Simon	A New Stable Numerical Method To Find The	Journal of the Balkan Tribological	Vol. 21, No 2,	2015	

S. No.	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
	Christopher , K. Selvakumar	Change In Angle Of Contact In Angular Contact Ball Bearing Subject To Thrust Load	Association	339-350		
11	M.S.Starvin, K. Manisekar, N.Nagasubramanian	Design Optimization of Large Diameter Ball Bearings Using Genetic Algorithms	International Journal of Applied Engineering Research	Volume 10, No. 7, pp. 17729-17741	2015	
12	SME Babu, K. Manisekar, AP Senthil Kumar, D Rajenthirakumar	Experimental Study Of Thermal Contact Resistance In Hardened Bearing Surfaces	Experimental Heat Transfer	Vol.28, issue 2, pp.189-203	2015	
13	P.Senthil Kumar,&K. Manisekar	Effect Of Composition On Friction Co Efficient Of Copper Based Cu- Sn- Mos2 Composites	IJE Transactions A: Basics	Vol. 28 (1) pp 141-150	2015	
14	Dr. H. Kanagasabapathy	Production and Upgradation of Cotton Shell Pyrolytic Oil for Biofuel from Flash Pyrolysis by Fluidized Bed Reactor	<i>Proceedings of the National Academy of Sciences, India Section A: Physical Sciences</i> , Springer		2015	
15	D. Vignesh Kumar, D.Ravindran, M. Siva Kumar and MN Islam	Optimum tolerance synthesis of simple assemblies with nominal dimension selection using genetic algorithm	Journal of Mechanical Engineering Science	Vol. 0 (0) pp 1-21	2015	0.56
16	R. Harichandran and N. Selvakumar	Effect of micro nano B <sub>4</sub> C particle on mechanical behaviour of aluminium metal matrix composites fabricated by ultrasonic cavitation assisted solidification processing	Archives of Civil and Mechanical Engineering	Vol. 16	2016	1.8

S. No.	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications	Impact Factor
17	M. Kathiresan and K. Manisekar	Axial crush behaviours and energy absorption characteristics of aluminium and E-glass/epoxy over-wrapped aluminium conical frusta under low velocity impact loading	Composite Structures	Vol. 136, pp. 86–100	Feb 2016	
18	D. Venkatkumar and D.Ravindran	3D finite element simulation of temperature distribution, residual stress and distortion on 304 stainless steel plates using GTA welding	Journal of Mechanical Science and Technology	Vol. 30 (1), pp 67-76	2016	

**List of National Journals  
Academic year (2012 – 13)**

S.No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications
1	Dr. T. Vigraman	Diffusion bonding of AISI 304L steel to low-carbon steel with AISI 304L steel interlayer	Materials & Design	Vol. 34, pp. 594–602	Feb.,2012
2	Dr. T. Vigraman	Microstructure and mechanical property evaluation of diffusion-bonded joints made between SAE 2205 steel and AISI 1035 steel	Materials & Design	Vol. 35, pp. 156–159	March, 2012
3	Dr. T. Vigraman	Phase transformation and effect of intermetallic compounds on the microstructure and tensile strength properties of the diffusion bonded joints between Ti-6Al-4V and AISI 304L	Materials & Design	Vol 36, pp. 714-727	April 2012
4	R.Satheesh Raja, K.Manisekar & V.Manikandan	Experimental Study on Tensile properties of Fibre reinforced polymer with and without filler material	3rd International Conference on Recent Advances in Material Processing		Jan 2013

S.No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications
			Technology		
5	P.Senthil Kumar, K.Manisekar & N.Seenu	Prediction of Mechanical and Tribological Properties in Cu-Sn Composites Containing MoS <sub>2</sub> using Artificial Network,	3rd International Conference on Recent Advances in Material Processing Technology		Jan 2013
6	Mr.G.Esakkimuthu	Enhanced solar still performance by reducing glass cover temperature	ELCON'13		20th March 2013

#### Academic year (2013 – 14)

S.No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications
1	A.Razal Rose, V.Balasubramanian, K.Manisekar, S.R.Sundarabharathi, S.Rajkumar	Effect of D/d ratio on Microstructure and Mechanical Properties of Friction Stir Welded AZ61A Magnesium Alloy Joints	TEQIP Sponsored National Seminar on Recent Trends in Welding Technology and Non –Destructive Testing.		2013
2	P.Ravindran & K.Manisekar	Tribological Properties of Hybrid Aluminium Nano Composites	3rd International Conference on Recent Advances in Material Processing Technology		2013
3	A.Thanesh, L.Vadivelkannan and K.Manisekar	Study of Tensile behavior Sancevaria Trifasciata Laurenth Polyester Composites	3rd International Conference on Recent Advances in Material Processing Technology		2013

#### Academic year (2014 – 15)

S. No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications
1	S. Babu, and K. Manisekar	Experimental Study of Heat Distribution in Polished Bearing Surfaces for Design and Development of	1st International Conference on Structural Integrity, ICONS-2014,		2014

S. No	Name of the authors	Title of the Paper	Name of Journal	Page No. & Volume	Year of Publications
		Large Diameter Slewing Ring Bearing For FBR	IGCAR, Kalpakkam.		
2	S. Babu, K. Manisekar, V. Dinakarn, C. Gajendran	A Study of Mechanical Properties of Nuclear Reactor Bearing Steels Using Digital Image Correlation Technique	International Conference on Advances in Design and Manufacturing (ICAD&M'14), International Conference on Advances in Design and Manufacturing (ICAD&M'14), NIT Trichy		2014
3	S.Vinothkumar, K.Manisekar & P.Ravindran	Development and Tribological Performance of NANO SiC Particles on the AA2024 Hybrid Composites with the addition of Nano Graphite	5th International & 26th all India Manufacturing Technology, Design and Research Conference (AIMTDR 2014 IIT Guwahati, India		2014

**List of Books published:**

S.No	Name of the Author	Name of the Co-authors	Title of the Book	Name of the Publication	Year of publication
-	-	-	-	-	-

Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- Citation Index – range / average
- SNIP
- SJR
- Impact factor – range / average
- h-index

**U.G. Mechanical Engineering**

Sl. No.	Name of the faculty member	Number listed in International Database	Citation index Total No	h-index
1	Dr. K. Kalidasa Murugavel	23469499400	311	8
2	Dr.H.Kanagasabapathy	-	1	1
3	Mr.G.Esakkimuthu	13805729400	18	3
4	Dr.T.Vigraman	53985610800	26	3

### P.G. Manufacturing Engineering

Sl. No.	Name of the faculty member	Number listed in International Database	Citation index Total No	h-index
1	K.Manisekar	6506288307	167	8

### P.G. Energy Engineering:

Sl. No.	Name of the faculty member	Number listed in International Database	Citation index Total No	h-index
1	Dr.D.Ravindran	15042756500	183	7

#### 15.Details of patents and income generated: Nil

Mr.I.Sankar, Asst. Prof. (SG) has applied to IPR India for patent (Appl. No.5533/CHE/2014, CBR No.20429) dated 5<sup>th</sup> Nov. 2014 under the title “Heat resisting intermediate panel for cold items container – produced through charcoal waste of water treatment plant”.

#### 16. Areas of consultancy and income generated:

Sl. No.	Title of Consultancy work	Client	Amount Earned	Main or Consultant
1	Grid tied Solar PV Roof Top Restaurant – 78 kWp	HOTEL AAR ROYAL PARK, Vasantha Nagar, Tirunelveli	Service work	Consultant
2	Zero Electricity Bill House – 14 kWp supported by Solar PV with Battery backup to run 6 X 1.5 T A/C and other electric loadings ( <i>first of its kind in India</i> )	Valluvar Colony, Tirunelveli	Service work	Consultant
3	300 m <sup>3</sup> Biogas plant	Lakshmi Ammal polytechnic	Service work	Consultant
4	30 KLD Sewage Treatment Plant	Raghu International, Kodaikanal	Service work	Consultant
4	60 KLD Sewage treatment plant	Kayaar Exports Private Ltd., Nalatinputhur, Kovilpatti	Service work	Consultant

Sl. No.	Title of Consultancy work	Client	Amount Earned	Main or Consultant
5	Power quality study on harmonics, capacitor relocation for energy savings and submission of implementation report –March 2013	Kayaar Exports Private Ltd., Nalatinputhur, Kovilpatti	Rs.50,000/-	Consultant
6	Energy audit in lighting systems and submission of post implementation report on energy savings – December 2013	Kayaar Exports Private Ltd., Nalatinputhur, Kovilpatti	Rs.55,000/-	Consultant
7	Exhaust air wind energy recovery system for energy conservation in blower	Kayaar Exports Private Ltd., Nalatinputhur, Kovilpatti	Service work	Consultant

### 17. Faculty recharging strategies

- Faculty members are deputed for National & International Conferences, Workshops, Seminars refresher programmes, orientation programmes and training programmes.
- In-house faculty development programmes/expert talk and interaction, workshop and seminars are arranged.
- Research incentives are provided
- Research activity at department level are encouraged
- Faculty encouraged to take up consultancy projects.

### 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

Sl. No.	Name of the Programme	Percentage of students doing in-house projects	Percentage of students doing projects collaboration with industries
1	U.G. Mechanical	85%	15%
2	P.G. Manufacturing Engineering	100%	-
3	P.G. Energy Engineering	100%	-

19. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoral fellows :NIL
- Students

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

**2012-13**

Sl. No.	Programme	Date	Status	Outstanding Participants	Sponsored Amount
1.	Guest Lecture on CNC	03.10.2012	Guest lecture		-
2.	Guest lecture on road safety awareness	04.01.2013	Guest lecture		-
3.	RAMPT' 13	07.01.2013 to 09.01.2013	National level Conference		-
4.	MECHNA' 13	18.03.2013	Workshop		-
5.	Mechmaze' 13	19.03.2013	Workshop		-
6	National Level Technical Workshop on Research Opportunities in Solar Thermal	12.12.2012	Sponsored by MNRE	Dr. A. Mani, Professor, IIT, Madras Dr.R.Saravanan Professor, Anna University, Chennai Dr. N. Nallusamy , Professor, SSN College of Engineering, Chennai Dr.K.Srithar, Professor, Thiyagarajar College of Engineering, Madurai Dr.A.Selvaraju, Professor, Pondicherry Engineering College, Pondicherry	50,000/-

**2013-14**

S.No	Name of the Program	Date	Status	Outstanding Participants	Sponsored Amount
1	CAN Bus Implementation Practices for Mechanical Engineers	25-07-2013 & 26-07-2013	Workshop		
2	FDTP on "Engineering Mechanics"	16-12-2013 to 22-12-2013	Anna university sponsored FDTP		Rs 90,000

S.No	Name of the Program	Date	Status	Outstanding Participants	Sponsored Amount
3	“Welding of Dissimilar Materials”	19-04-13& 20-04-13	CSIR Sponsored National level Workshop		Rs 20,000
4	RAIME’ 13(Recent advances in Mechanical Engineering)	16-04-2013 & 17-04-2013	National level Conference		-
5	Guest Lecture on Operations of Thermal power plant	14.08.2013	Guest lecture		-
6	Guest Lecture on “Industrial Radiography”	22-07-2013	Guest lecture		-
7	National Level Technical Seminar on Next Generation Technologies for Sun-Wind Energy Conversion	28.02.2014	Sponsored by MNRE	Dr. E. Natarajan, Professor-MECH, Anna University, Dr. S. Jayaraj, Professor-MECH, NIT Mr.A. Ilangovan, CEO, Consun Energy Solutions, Bangalore Dr.S.Beer Mohamed, Professor-MECH, B.S. Abdur Rahman University	86,000/-

### 2014-15

S.No	Name of the Program	Date	Status	Outstanding Participants	Sponsored Amount (in Rs.)
1	TNSCST	07-07-2014 to 09-07-2014 23-07-2014 to 25-07-2015	Workshop		1,00,000
2	AUTOKVINTA	09-10-2014 to 10-10-2014	Workshop		10,000
3	Advanced Industrial Tribology (AINT '15) sponsored by BRNS	11.02.2015 & 12.03.2015	Two days Workshop	Dr.A.Arokiarajan, Prof., IIT Madras Dr.-Ing.M.Duraiselvam, Production Engineering, NIT, Trichy Dr.N.L.Parthasarathy, Scientist, IGCAR Dr.T.P.D.Rajan, Senior Scientist, CSIR	1,00,000

S.No	Name of the Program	Date	Status	Outstanding Participants	Sponsored Amount (in Rs.)
				Dr.Sathish Vasu Kailas, IISc Dr.N.Selvakumar, Prof. Mepeco Schelenk Engg. College Dr.S.Venugopal, Asso. Director-GRIP, IGCAR	
4	Guest Lecture by Mr.Nargunam, Managing Director – Excel Die Castings.	18-08-2014	Guest lecture		-
5	Guest Lecture by S.Anbu Kumar Deputy Manager- Corporate – Projects ELGI Equipments Limited.	20-03-2015	Guest lecture		-
6	Guest Lecture by Mr.Ganesh	30-06-2014	Guest lecture		-

## 21. Student profile course-wise:

### U.G.Mechanical Engineering

Name of the course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
	2014-15	140	-	93.5	-
	2013-14	130	-	96.15	-
	2012-13	132	-	94.7	-

### P.G. Manufacturing Engineering

Name of the course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
	2014-15	13	1	100	100
	2013-14	16	2	100	100
	2012-13	9	-	100	100
	2011-12	18	1	100	100

### P.G. Energy Engineering

Name of the course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
	2014-15	8	-	100	-
	2013-14	5	3	100	100
	2012-13	17	-	100	-
	2011-12	15	2	100	100

### 22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
U.G. Mechanical Engineering	Not applicable			
P.G. Manufacturing Engineering	-	100	-	-
P.G. Energy Engineering	-	100	-	-

### 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Sl. No	Name of the competitive Examination	Number of students Cleared
1	GATE	5 (2013-14) 2 (2014-15)
2	MAT	1(2014-15)

### 24. Student progression

Student progression	Percentage against enrolled
UG (Mechanical Engineering) to PG	3%
PG to M.Phil.	Not applicable
PG to Ph.D.	
Manufacturing Engineering	25%
Energy Engineering	20%
Ph.D. to Post-Doctoral	Nil
Employed (B.E. Mechanical Engineering) • Campus selection	22%

• Other than campus recruitment	28%
Employed (Manufacturing Engineering)	
• Campus selection	Nil
• Other than campus recruitment	100%
Employed (Energy Engineering)	
• Campus selection	Nil
• Other than campus recruitment	100%
Entrepreneurs	2%

25. Diversity of staff

<b>Percentage of faculty who are graduates</b>	
of the same parent university	48%
from other universities within the State	48%
from other universities from other States	0.04%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

<b>Year</b>	<b>Number of faculty awarded Ph.D</b>
2012-13	3
2013-14	-
2014-15	-

27. Present details about infrastructural facilities

- a) Library
- b) Internet facilities for staff and students
- c) Total number of class rooms
- d) Class rooms with ICT facility
- e) Students' laboratories
- f) Research laboratories

<b>Sl. No.</b>	<b>Name of the Infrastructural Facility</b>	<b>Quantity/Details</b>
1	Library - Department	1259 books
2	Internet for staff	Available Wi-fi enabled campus computers to Professors, Associate Professors and Assistant Professor (SG)
3	Internet for students	a. Available b. Wi-fi enabled campus c. Using laptop at class room is permitted d. Computer lab can be used from 9.00 a.m. to 6.00 p.m. on all working days

Sl. No.	Name of the Infrastructural Facility	Quantity/Details
4	Number of Class rooms	10 (for UG and PG)
5	Classrooms with ICT facility	1+1 seminar hall
6	Students laboratories	Workshop Machine shop Thermal lab Hydraulics lab Strength of materials lab CAD lab CAM lab Automation lab Dynamics lab Metrology lab Advanced computing lab Composite lab Energy lab Energy simulation lab
7	Research lab	R & D lab, CDIO work space

**28. Number of students of the department getting financial assistance from College.**

Nil

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

- Based on the demand of the program in single window counseling.
- Considering the suggestion given by the Stake-holder.
- In order to understand the dynamic changes and recent trends, meeting and brainstorming were conducted with alumni, industrial experts and faculty members. As result of the discussion, additional value added courses and online courses relevant to the present scenario have been introduced

**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.**

All faculty members participate in curriculum development and revision. Based on the feedback curriculum was enhanced for Regulation 2013 and Regulation 2015

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Yes. Teaching evaluation is carried out by the students for each and every faculty member and the scores are given to the respective members to improve their performance.

**c. Alumni and employers on the programmes and what is the response of the department to the same?**

Yes. Feedback from the alumni and employers are obtained and their valuable suggestions are used to facilitate placement and higher study opportunities.

31. List the distinguished alumni of the department (maximum 10)

Sl. No.	Name of the Distinguished Alumni	Details of Occupation
1	Dr.K. Subburaj	Assistant Professor Engineering Product Development (EPD) Singapore University of Technology and Design (SUTD), 20 Dover Drive, Singapore 138682.
2	Mr.M.Rajkumar	Manager, Bharat Electronics Limited, Industrial Engineering Department, Bangalore
3	Mr.S.Suresh	Vice President, Manufacturing, Wheels India Limited, Chennai
4	Mr.V.Bhaskar	Project Manager, Ford Motor Company, USA
5	Mr.K.Ramesh	Deputy General Manager, M/S. TVS & Sons Ltd, Construction Equipment & Material Han
6	Mr.G.Gurusamy	General Manager, Operations, Schlumberger group of company, Mumbai
7	Dr.A.Arokiarajan	Professor, Department of Applied Mechanics, IIT Madras, Chennai
8	Mr.G.Kannan	Deputy General Manager, Ramco Cements Limited, Ariyalur.
9	Mr.P.R.Sutharsan	Proprietor, Precision storage vessels limited, Chennai
10	Mr.Inico Inbaraj	Proprietor, Bommi's Garments, Rajapalayam

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

**2012-13**

Sl.No.	Programme	Venue	Date
1.	Guest Lecture on CNC	NEC, Kovilpatti	03.10.2012

Sl.No.	Programme	Venue	Date
2.	Guest lecture on road safety awareness	NEC, Kovilpatti	04.01.2013
3.	RAMPT' 13	NEC, Kovilpatti	07.01.2013 to 09.01.2013
4.	MECHNA' 13	NEC, Kovilpatti	18.03.2013
5.	Mechmaze' 13	NEC, Kovilpatti	19.03.2013

#### 2013-14

S.No.	Name of the Program	Date	Status	Sponsored Amount
1	CAN Bus Implementation Practices for Mechanical Engineers	25-07-2013 & 26-07-2013	Workshop	
2	FDTP on "Engineering Mechanics"	16-12-2013 to 22-12-2013	Anna university sponsored FDTP	Rs 90,000
3	"Welding of Dissimilar Materials"	19-04-13& 20-04-13	CSIR Sponsored National level Workshop	Rs 20,000
4	RAIME' 13(Recent advances in Mechanical Engineering)	16-04-2013 & 17-04-2013	National level Conference	-
5	Guest Lecture on Operations of Thermal power plant	14.08.2013	Guest lecture	-
6	Guest Lecture on "Industrial Radiography"	22-07-2013	Guest lecture	-

#### 2014-15

S. No	Name of the Program	Date	Status	Sponsored Amount (in Rs.)
1	TNSCST	07-07-2014 to 09-07-2014 23-07-2014 to 25-07-2015	Workshop	1,00,000
2	AUTOKVINTA	09-10-2014 to 10-10-2014	Workshop	10,000

S. No	Name of the Program	Date	Status	Sponsored Amount (in Rs.)
3	Advanced Industrial Tribology (AINT '15) sponsored by BRNS	11.02.2015 & 12.03.2015	Two days Workshop	1,00,000
	Guest Lecture by Mr.Nargunam, Managing Director – Excel Die Castings.	18-08-2014	Guest lecture	-
	Guest Lecture by S.Anbu Kumar Deputy Manager- Corporate – Projects ELGI Equipments Limited.	20-03-2015	Guest lecture	-
	Guest Lecture by Mr.Ganesh	30-06-2014	Guest lecture	-

33. List the teaching methods adopted by the faculty for different programmes.

- Black board based teaching
- Power point presentation
- Guest lectures
- Group Discussion
- With real working model or experimental setup
- Brainstorming
- Case studies
- Simulation

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- Faculty members prepare a course plan with clear objectives, teaching methodologies to be used and learning outcomes expected with target and threshold.
- Weightage of marks for each CO is also clearly given in the course plan.
- Course plan is reviewed by the Domain coordinator and HOD.
- At the semester, course file is reviewed by the Academic Audit team.

- Class committees consisting of students and faculty members are constituted and two meetings are conducted per semester to monitor the learning outcomes.
- Continuous assessment with 30% of marks for formative assessment and 70% of the marks for the summative assessment help to ensure the learning.
- By conducting Project review meetings for final year students.

35. Highlight the participation of students and faculty in extension activities.

**Students:**

- Participation in inter and intra college symposiums, paper presentations.
- Participation in cultural competitions.
- Active participation in department level and institution level association
- Participation in NSS, NCC and life skill training, medical camps and social outreach Programmes.

**Faculty:**

- Participation in administrative activities.
- Participation in student's welfare activities.
- Helping students in association activities.

36. Give details of "beyond syllabus scholarly activities" of the department.

- Internship
- Industrial Training
- Mini project
- Industrial visits for students
- Conducting student technical symposium through association. Eg: MECHNA, MECHMAZE
- Motivational talks from eminent academicians
- Participation in intra collegiate programmes
- Energy audit activities in the campus
- Society of Automobile Engineers
- Innovation club
- Institution of Engineers
- Self development programme
- GATE forum

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

- NBA Accreditation
- IE Accreditation
- TCS Accreditation

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**Strength:**

- More number of experienced faculties from the same institute.
- Curriculum is designed based on the industrial standard and industrial requirement to meet out Graduate attributes defined by NBA/Washington Accord. Choice based credit system and Outcome based education system are followed.
- Industry oriented electives offered and the courses were handled by industrial experts.
- CDIO work space is available to implement innovative ideas by the students
- Apart from curriculum, Research and development lab, Energy Park, Energy Simulation lab, Composite lab, Tribology lab, Creep Testing lab are established.

**Weakness:**

- Lack of communication skill to the students
- Effect on culture of students of nearby rural area
- Increasing proportion of new faculty with limited teaching experience
- Lack of faculties from other state universities
- Less intake in courses of PG programmes

**Opportunities:**

- The flexibility to incorporate local needs into educational objectives
- Developments leading to a possibility of establishing A Grade from National Board for Accreditation and our influence in shaping its structure, criteria etc. to become a model institute in the region

2. Available faculty development opportunities

- Sufficient funding
- Institutional support for research and development

3. New trends in multi-disciplinary professional education and new teaching methods

- Possibility of re-designing curriculum and by-laws to allow multi-disciplinary teaching and learning.
- Possibility of utilizing advanced teaching and learning aids in class room  
Scope for advanced infrastructural facilities
- Scope for introduction of new PG courses

#### 4. Young and dynamic society

- Good scope for community services in the economically and socially backward areas
- Enhancing employability of students through Industry Institute Interaction
- A good pool for potential students
- Readiness to accept changes

#### **Challenges:**

- a. Fewer placements in public sector companies and leading MNCs.
- b. Less number of students qualifying in IES, GRE, GMAT, GATE etc.
- c. Only few number of students going for higher studies in IITs, NITs and foreign universities
- d. Lack of collaboration with International companies and institutions
- e. Lack of consulting work to the industries
- f. Lack of collaborative research with foreign universities and organizations

#### **39. Future plans of the department:**

A closer examination of the SWOC analysis reveals that Department future plan should focus on the improvements that are related to students, teaching methods and faculty. Therefore, the following strategic objectives have been developed to address the weaknesses and challenges related to various aspects of those issues.

- Strengthening teaching and learning process to impart fundamental knowledge and skill to get through in examinations like IES, GRE, GATE, GMAT etc.
- Strengthening teaching and learning process to give knowledge about basic concepts to get through selection process and get placements in public sector companies and leading MNCs.
- 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 Department

1. Name of the Department & its year of establishment – Electronics and Communication Engineering & 1984
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Sl. No.	Name of program offered	Remarks (UG/PG)
1.	B.E (Electronics and Communication Engineering)	U.G-SS(Full time)
2.	M.E(Communication systems)	P.G-SS(Full Time)
3.	M.E (Embedded Systems Technologies)	P.G-SS(Full Time)

3. Interdisciplinary courses and departments involved

Sl. No.	Name of the Subject	Name of the Department
1.	Career Development on C, C++, JAVA	Computer Science Engineering

4. Annual/ semester/choice based credit system – Semester based credit system
5. Participation of the department in the courses offered by other departments—

Sl. No.	Name of the Subject	Name of the Department
1.	Digital Signal Processing Analog and Digital Circuits	Computer Science Engineering
2.	Electric Circuits and Electron Devices	Science and Humanities
3.	Communication Engineering	Electrical and Electronics Engineering Electronics and Instrumentation

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

#### Consolidated details of faculty for all the courses except M. E. / M. Tech.

	Sanctioned	Filled
Professor	2	2
Associate Professors	5	3
Asst. Professors	17	22

**Consolidated details of faculty for M. E. / M. Tech.**

Sl. No.	Name of the Course(s)		sanctioned	Filled
1.	M.E., Communication Systems	Professor	1	1
		Asst. Professor	2	2
		<b>Total</b>	3	3
2.	M.E., Embedded Systems Technologies	Asst. Professor (SG)	1	1
		Asst. Professor	2	2
		<b>Total</b>	3	3

7. Faculty profile with name, qualification, designation, specialisation (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Sl. No.	Name	Designation	Qualification	specialization	No. of years of Experience	No. of Ph.D. students guided in the last 4 years
1.	Dr.S.Shanmugavel	Principal	Ph.D	Coded Communication	38.3	No. of scholars Awarded/ Completed Ph.D.=4 No. of scholars Pursuing Ph.D.=7
			D.M.I.T	Electronics Engineering		
			B.Sc	Mathematics		
2.	Dr.A.Shenbagavalli	Professor & Head (UG)	Ph.D	Signal Processing	28.7	No. of scholars Pursuing Ph.D.=9
			M.E.	Applied Electronics		
			B.E.	ECE		
3.	Dr. S.Tamil Selvi	Professor & Head (PG)	Ph.D	Signal Processing	27.8	No. of scholars Awarded/ Completed Ph.D.=6 No. of scholars Pursuing Ph.D.=8
			M.E.	Optical Communication		
			B.E.	ECE		

Sl. No.	Name	Designation	Qualification	specialization	No. of years of Experience	No. of Ph.D. students guided in the last 4 years
4.	Mr.N.Arumugam	Asso.Prof	Pursuing Ph.D	Wireless Sensor Network	27.6	
			M.E.	Electronics		
			B.E.	ECE		
5.	Mr. V.R.S.Mani	Asso. Prof	Pursuing Ph.D	Image Processing	26.6	
			M.E.	Communication Systems		
			B.E.	ECE		
6.	Mrs. S.D.Jayavathi	Asst.prof (Sr.Gr)	Pursuing Ph.D	Data Compression	9.1	
			M.E.	Communication Systems		
			B.E.	ECE		
7.	Mr. T.Devakumar	Asst.Prof(SG)	M.E.	Control and Instrumentation	14.6	
			B.E.	ECE		
8.	Mr. T.Vijayanandh	Asst.Prof(SG)	Pursuing Ph.D	Image Processing	12.5	
			M.E.	Communication Systems		
			B.E.	ECE		
9.	Mr. K.J.Prasanna Venkatesan	Asst.Prof(SG)	Pursuing Ph.D	Wireless Communication	12.1	
			M.E.	Communication Systems		
			B.E.	ECE		
10.	Mrs. P.Kavitha	Asst.Prof(SG)	Pursuing Ph.D	Wireless Communication	11.7	
			M.E.	Communication Systems		
			B.E.	ECE		
11.	Mr.A.Saravana Selvan	Asst.Prof(SG)	Pursuing Ph.D	Wireless Sensor Network	11.1	

Sl. No.	Name	Designation	Qualification	specialization	No. of years of Experience	No. of Ph.D. students guided in the last 4 years
			M.E.	Applied Electronics		
			B.E.	ECE		
12.	Mr.S.Cammillus	Asst.Prof(SG)	Pursuing Ph.D	Communication systems	9.6	
			B.E.	ECE		
13.	Mrs.K.Sangeetha Ananthamani	Asst.Prof(SG)	M.E.	Communication systems	9.2	
			B.E.	ECE		
14	Mr.C.Balamurugan	Asst.Prof(SG)	Pursuing Ph.D	Wireless Communication	7.7	
			M.E.	Communication systems		
			B.E.	ECE		
15	Mr.K.Subramanian	Asst.Prof(SG)	Pursuing Ph.D	Wireless Sensor Network	7.7	
			M.E.	Computer & Communication		
			B.E.	ECE		
16	Mr.V.Prithivi Rajan	Asst.Prof(SG)	Completed viva voice	RF MEMS	4.2	
			M.E.	Communication systems		
			B.E.	ECE		
17	Mrs.R.Manjula Devi	Asst.Prof	Pursuing Ph.D	Image Processing	5.7	
			M.E.	Communication systems		
			B.E.	ECE		
18	Ms.S.V.Shyamala Gayathri	Asst.Prof	M.E.	VLSI Design	5.5	
			B.E.	ECE		

Sl. No.	Name	Designation	Qualification	specialization	No. of years of Experience	No. of Ph.D. students guided in the last 4 years
19	Mr.M.Satheesh Kumar	Asst.Prof	Pursing Ph.D	Communication systems	3.7	
			B.E.	ECE		
20	Ms. R.Saranya Gandhi	Asst.Prof	M.E.	Embedded System Technologies	3.7	
			B.E.	ECE		
21	Mr.R.Ganesh	Asst.Prof	M.E	Communication systems	7.6	
			B.E	ECE		
22	Ms.J.Abisha	Asst.Prof	M.E.	Communication systems	3.7	
			B.E.	ECE		
23	Mr.L.S.Karthick	Asst.Prof	M.E.	Embedded System Technologies	3.5	
			B.E	ECE		
24	Mr.M.Sathishkumar	Asst.Prof	M.E.	Communication systems	6.3	
			B.E	ECE		
25	Mr.B.Ganapathy Ram	Asst.Prof	M.E.	Applied Electronics	4.8	
			B.E.	ECE		
26	Mr.T.Ramprakash	Asst.Prof	M.E	Embedded System Technologies	3.5	
			B.E	ECE		
27	Mrs.C.Asha Beaula	Asst.Prof	M.E	Applied Electronics	4.4	
			B.E	ECE		
28	Mrs.D.Anlet Nisha	Asst.Prof	M.E	VLSI Design	3.5	
			B.E	ECE		

Sl. No.	Name	Designation	Qualification	specialization	No. of years of Experience	No. of Ph.D. students guided in the last 4 years
29	Ms.S.Karthika	Asst.Prof	M.E	VLSI Design	2.7	
			B.E	ECE		
30.	Ms.L.Krishna Kumari	Asst.Prof	M.E	VLSI Design	1.7	
			B.E	ECE		
31.	Mr.I.Vivek Anand	Asst.Prof	M.E	VLSI Design	1.7	
			B.E	ECE		
32.	Ms.K.Arthi	Asst.Prof	M.E	Embedded System Technologies	8 months	
			B.E	ECE		
33.	Ms.S.Sangamithirai	Asst.Prof	M.E	Applied Electronics	8 months	
			B.E	ECE		

8. Percentage of classes taken by temporary faculty – programme-wise information – Nil

9. Programme-wise Student Teacher Ratio

S.No.	Degree	Course(s)	Total Sanctioned Strength *(S)	Professor	Asso. Prof.	Asst. Prof.	Total no of faculty members available	STR 1: S/T
1.	B.E	Electronics and Communication Engineering	360	2	3	22	27	1:13.33
2.	M.E	Communication Systems	36	1	-	2	3	1:12
3.	M.E	M.E., Embedded Systems Technologies	36	-	-	3	3	1:12

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

	Sanctioned	Filled
Technical Staff	9	7
Administrative Staff	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.

Sl. No	Title of project	Funding Agency	Funding agency National/ International	Principal Investigator/ Co-Investigator	Grant received	Duration
1.	Artificial Intelligence based computer aided Detection for Medical Application	IGCAR, Kalpakkam	National	1.Dr.A.Shenbagavalli, Professor and Head/ECE 2.Dr.M.Sundaram, Assistant Professor(SG)	Rs.15,83,040	3 years
2.	Modernisation and Upgradation of IC and Microprocessor Lab	AICTE, New Delhi	National	Dr.A.Shenbagavalli, Professor and Head/ECE	Rs.12,00000	1 year
3.	Fully Automated coconut harvesting machine	DST	National	1.Dr.S.Tamil Selvi, Prof&Head/ECE (PG) 2.Mr.N.Arumugam, AP(SG)/ECE 3.Mr.T.Devakumar, AP(SG)/ECE	Rs.24,41,360	3 years

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received - **Rs.24,41,360**

13. Research facility / centre with

- state recognition
- national recognition
- international recognition
- State recognition – Electronics and Communication department of National Engineering College approved as Research centre by Anna University, Chennai

14. Publications:

- number of papers published in peer reviewed journals (national / international)
- 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.)
- Citation Index – range / average
- SNIP
- SJR
- Impact factor – range / average
- h-index
- number of papers published in peer reviewed journals (national / international)

SI. No	Name of the Authors	Title of paper	Name of journal	Page No. & Volume, Year of publication	Impact Factor
1	D. Kesvaraja Dr. A. Shenbagavalli	Scalable Cloud video broadcasting as a service with enhanced quality using open stack SWIFT	International Journal of Applied Engineering Research ISSN:0973-4562	Vol.10, No. 20, 2015	-
2	D. Kesvaraja Dr. A. Shenbagavalli	Scalable video transcoding with Hadoop map reduce in open stack Juno platform	I-manager's Journal on cloud computing	Vol. 2, No. 2 ,pp.8-14 April 2015	-
3	D. Kesvaraja Dr. A. Shenbagavalli	Implementation of Hadoop video transcoding and open stack SWIFT video streaming as a service	Australian Journal of Basic and Applied Sciences	Vol. 9, No.16, pp.449-456 2015	-
4	D. Kesvaraja Dr. A. Shenbagavalli	Cloud video server (CVS): secure video storage on cloud using heterogeneous slaves	I-manager's Journal on cloud computing	Vol.2, No. 1, pp. 32-41 Jan 2015	-
5	S.Lenty Stewart Dr. S.Tamil Selvi	Zero Intersymbol Interference multiuser system: a new architecture utilizing m-sequence cyclic property	IET Journal , IET Communications	DOI: <a href="https://doi.org/10.1049/iet-com.2014.1121">10.1049/iet-com.2014.1121</a> Sep 2015	-
6	A. Milton , E.S. Nivea Ghosha, Shilpa S Mohan , Dr. S. Tamil Selvi	Analysis towards optimum features and classifiers to recognize the emotion Happiness from Speech Signals	International Journal of Applied Engineering Research	Vol.10, No.12, pp 32585-32600 2015	-
7	A. Milton Dr. S. Tamil Selvi	Higher Order Mel-frequency Cepstral and Autoregressive coefficients in recognizing three dimensions of speech Emotions	International Journal of Applied Engineering Research	Vol.10, No.10, pp26543-26558 2015	-

SI. No	Name of the Authors	Title of paper	Name of journal	Page No. & Volume, Year of publication	Impact Factor
8	M.Christobel, Dr. S.Tamil Selvi	Efficient scheduling of Scientific workflows with energy reduction using novel discrete particle swarm optimization and dynamic voltage scaling for computational grids	The Scientific World Journal Hindawi publications	Volume 2015, Article ID 791058, 11 Pages April 2015	-
9	M.Poomima Dr. S.Tamil Selvi	Study and Design of Slot-Cut Miniaturized Multiband Microstrip Antenna	International Journal of Applied Engineering Research	Vol. 10, No.9, pp.7177-7182 April 2015	-
10	G.Dhanabalan Dr. S.Tamil Selvi	Design of parallel conversion multichannel analog to digital converter for scan time reduction of Programmable Logic Controller using FPGA	International Journal of Computer Standards & interfaces	Vol.39,pg.12-21 March 2015	-
11	R.Muthu Krishnan, S.Tamil Selvi	Dual Band Square Shaped Slotted Patch Antenna for Wearable Applications	International Journal of Advanced Information Science and Technology	Vol.34,No.34,pp.466-469 Feb2015	-
12	M.Mary Helta Daisy Dr. S.Tamil Selvi, R.M.Priyanka	Extraction of shape features using Region Based and Contour based method	International Journal of Applied Engineering Research	Vol. 9 No.26 pp. 9055-9058 Feb 2015	-
13	S.Lenty Stuwart Dr. S.Tamil Selvi	Precoder based Collaborative Blind Multiuser Detection of CDMA Signals	Wireless Personal Communications , Springer Publications	Vol. 83, No. 1, pp. 138-145. Feb 2015	-
14	Lekhsmi Sree H.A, Jeba Derwin.D, Dr.S.Tamil Selvi	Detection of Non-Proliferative Diabetic Retinopathy using SVM method	International Journal of Engineering Technology Science and Research	Vol.2,No.1,pp22-26 Jan2015	-
15	J.Helina Rajani Dr. S.Tamil Selvi	Performance analysis of Hybrid Optical Amplifiers for 64 x 10 Gbps DWDM system	Asian Journal of Applied Sciences	Vol.8, pg.46-54 Dec 2014	-
16	Dr. S.Tamil Selvi K.Niranjana M.Sornaguru M.Subhasiny	Heart Disorder Diagnosis using Neural Network	Journal of Computer Science and Applications	Vol.6, no.1 pp 279-284 Oct 2014	-

SI. No	Name of the Authors	Title of paper	Name of journal	Page No. & Volume, Year of publication	Impact Factor
17	Mary Helta Daisy, Aleesha Livingston, Dr.S.Tamil Selvi	Local Tetra Pattern for Image Retrieval	International journal of Applied Environmental Sciences	Vol.9,No.5,pp 2393-2401 Oct 2014	-
18	Mr.S.Rajagopal Dr. A. Shenbagavalli	Design of On The Fly Encryption Algorithm in Video Compression Standard	International Journal of Communication and Computer Technologies. ISSN: 2278-9723	Vol. 2, Issue 7 April 2014	-
19	Dr.S.Tamil Selvi Ms.Mary Helta Daisy	Soft computing based medical image retrieval using shape and texture features	American Journal of Applied Sciences	Vol. 11, No. 2, pp 258-265 2014	0.27
20	Ms.V. Angaleswari Mr.K.Subramanian	An Efficient approach to improve the lifetime of Wireless Sensor Networks	Journal of emerging technologies image processing and networking	Vol.8, Special Issue III 2014	-
21	Mr.S.Vigneshkumar Mr.T.Vijayanandh	DCT-SVD Based Digital Watermarking Technique	Journal of emerging technologies image processing and networking	Vol.8, Special Issue III 2014	-
22	Dr.S.Tamil Selvi Ms.G.Tamil Pavai,	Color Texture classification using Hybrid features for Skin Image	Journal of Theoretical and Applied information Technology	Vol.29 , no.8 2014	-
23	Ms.S.P.Vinodhini Ms.S.D.Jayavathi	Implementation of CABAC Encoder for H.264 /AVC	Journal of emerging technologies image processing and networking	Vol.8, Special Issue II 2014	-
24	Ms.L.P.Muthulakshmi, Mr.V.R.S.Mani, Dr.S.Arivazhagan	Fusion of Hyperspectral and panchromatic image	Journal of emerging technologies image processing and networking	Vol.8, Special Issue II 2014	-
25	Ms.G.Sathya Mr.N.Arumugam	Design and implementation of area efficient carry select adder	Journal of emerging technologies image processing and networking	Vol.8, Special Issue III 2014	-

SI. No	Name of the Authors	Title of paper	Name of journal	Page No. & Volume, Year of publication	Impact Factor
26	Ms.G.Gajalaxmi, Dr.S.TamilSelvi	Key Scheduling technique for spread spectrum communication	Journal of emerging technologies image processing and networking	Vol.8, Special Issue II 2014	-
27	Ms.S.Mugunthamala Dr.S.Tamil Selvi	Energy saving transmission in Multicarrier system for green communication	Journal of emerging technologies image processing and networking	Vol.8, Special Issue III 2014	-
28	Ms.E.Golden Julie, Dr.S.Tamil Selvi, Mr.Y.Harold Robinson	Opportunistic Routing with secure coded Wireless multicast using MAS approach	International journal of Computer, Information systems and control engineering	Vol.8 No.7 2014	-
29	Ms.S.Mugunthamala Dr.S.Tamil Selvi	Energy Saving transmission for Green Communication	International journal of Research in science & Technology	Vol.1, No.2, pp.1-8 2014	-
30	Ms.M.Christobel, Dr.S.Tamil Selvi, Ms.Shajulin Benedict	Energy aware scheduling of scientific workflows using Discrete PSO in Grids	Journal of Convergence Information Technology	Vol.9, No.1, pp.153-162 2014	-
31	Mr.S.Rajagopal Dr. A. Shenbagavalli	Partial Video Encryption Using Random Permutation Based on Modification on DCT Based Transformation	International Refereed Journal of Engineering and Science. ISSN: 2319 – 183X.	Vol. 2, Issue 6 June - 2013	-
32	Mr.S.Rajagopal Dr. A. Shenbagavalli	A Survey of Video Encryption Algorithms Implemented In Various Stages of Compression	International Journal of Engineering Research & Technology. ISSN: 2278 – 0181.	Vol. 2, Issue 2 Feb - 2013	-
33	Mr.Dhanabalan Dr.S.Tamil Selvi	FPGA Implementation of 8-bit multiplier with reduced delay time	International Journal of Computer and Communication Engineering	Vol.2 No.6 2013	-
34	Ms.Priti Rishi, Dr.S.Tamil Selvi	Performance Analysis Four wave mixing crosstalk in Wavelength Division Multiplexing Systems	International journal on Information and Communication Technologies	Vol.6, No.3-4, pp. 617-626 2013	-
35	Mr.V.Vijayarangan Mr.K.J.Prasanna Venkatesan	Trust based Algorithm for Secure Spectrum Access in Cognitive Radio Networks	Elsevier Publications	60-72 2013	-

SI. No	Name of the Authors	Title of paper	Name of journal	Page No. & Volume, Year of publication	Impact Factor
36	Ms.G.Tamilpavai, Dr.S.Tamilselvi	Identification of Proliferative Diabetic Retinopathy using texture segmentation	International Journal of Computer Applications	Vol.9 358-367 2013	-
37	Dr.S.Tamilselvi Mr.A.Milton Ms.S.Sharmy Roy	SVM Scheme for Speech Emotion Recognition using MFCC Feature	International Journal of Computer Applications	Vol 69-No.9 2013	-
38	Dr.S.Tamilselvi Mr.A.Milton	A class specific multiple classifiers scheme to recognize emotions from speech signals	Elsevier publications	2013	-
39	Dr.S.Tamilselvi Ms.M.Mary helta daisy	A survey on content based image retrieval for medical application using Texture, Colour and shape features	Jokull Journal	Vol 63, 2013	-
40	Ms.G.Tamilpavai, Dr.S.Tamilselvi	Color Texture Classification using Improved DLBP for Skin Image	European Journal of Scientific Research	Vol 97, Issue : 3 Mar 2013	0.736
41	Ms.R.Umarani Mr.T.Vijayananth	Efficient algorithm for Brain tumor segmentation with minimal user interaction	International Journal of scientific & Engineering Research	Vol. 2, Issue 5 May 2013	-
42	Ms.S.D.Jayavathi Ms.S.Sathiyabama	VLSI Implementation of Error Correction Unit For TCM Decoders Using T-Algorithm	International Journal of Information and Communication Technologies	Vol 6No3-4 2013	-
43	Mr.V.R.S.Mani	A new phase based approach to multimodal image registration	Elixir International Journal	13146-13150 2013	-
44	Mr.M.Malleswaran, Mr.A.Saravana Selvan, Ms.V.Vaidehi	Performance analysis of Various Artificial Intelligent Neural Networks for GPS/INS Integration	International Journal Applied Artificial Intelligence	Vol.27, 367-407 2013	0.5
45	Ms.M.Shenbagavalli Mr.S.Rajagopal	Partial Video Encryption using Random Permutation based on Modification on DCT based transformation	International referred Journal of Engineering & Science	Vol.2 Issue 6 2013	-
46	Mr.V.R.S. Mani Mr.S.Arivazhagan	Survey of Medical Image Registration	Journal of Bio-Medical Engineering & Technology	Vol.1 No.2 Page No. 08-25 2013	-
47	Mr.V.R.S. Mani Mr.S.Arivazhagan Mr.J.Jason Braino	Multimodal Image fusion using Multiresolution Techniques	Elixir Adv.Engg. Info. 55A	Page No. 13160-13163 2013	-

SI. No	Name of the Authors	Title of paper	Name of journal	Page No. & Volume, Year of publication	Impact Factor
48	Dr.S.Tamil Selvi Mr.Milton A Ms.Ashitha Dayana.S	Voiced/unvoiced classification of speech signal using average zero crossing index difference function	International Journal of Advanced Information Science and Technology	Vol. 18, no.18, pp. 78-81 2013	-
49	Dr.S.Tamil Selvi Ms.J.Dheebe Mr.N.Albert Singh	Computer-aided Detection of Breast Cancer on Mammograms: A Swarm Intelligence Optimized Wavelet Neural Network Approach	Journal of Bioinformatics	2013	2.131
50	Dr.V.Vijayarangan Mr.K.J.Prasanna Venkatesan, Ms.P.Lingeswari	Legacy user detection in OFDM based cognitive radio	International Journal of Computer Applications	2012	0.814
51	Dr.V.Vijayarangan Mr.K.J.Prasanna Venkatesan, Ms.P.Lingeswari	Comparison of primary transmitter detection based spectrum sensing in cognitive radio system	Coimbatore institute of Information Technology, International Journal of Wireless Communication	2012	0.572
52	Dr.A.Shenbagavalli Ms.B.Narani	Image Registration by Feature based Information Fusion	International Journal of Computer Applications	Vol.1, No.2, pp.12-15 2012	0.814
53	Dr.S.Tamilselvi, Ms.J.Dheebe	A Swarm optimized Neural Network system for classification of Microcalcification in Mammograms	Journal of Medical Systems(Springer Journal)	DOI:10.1007/s10916-011-9781-3 (Published online ) sep 2011	1.132
54	Dr.S.Tamilselvi, Ms.J.Dheebe	An improved Decision support system for detection of Lesions in Mammograms using Differential Evolution Optimized Wavelet Neural network	Journal of Medical Systems (Springer Journal)	DOI:10.1007/s10916-011-9813-z (Published online) Dec 2011	1.132
55	Dr.S.Tamilselvi Ms.G.Tamilpavai	An approach for the detection of Proliferative Diabetic Retinopathy	Proceedings of the International Journal of Computer Applications	Published online june 2012	0.814
56	Dr.S.Tamilselvi Ms.G.Tamilpavai	Dominant Local Feature based Rotation invariant Texture Classification	Proceedings of the International Journal of Computer Applications	Published online and june 2012	0.814

SI. No	Name of the Authors	Title of paper	Name of journal	Page No. & Volume, Year of publication	Impact Factor
57	Dr.S.Tamil Selvi Ms.M.Mary Helta Daisy	Content based MRI Brain Image Retrieval by Combining Fourier Descriptors and Gabor filters with Morphological Operation	European Journal of Scientific Research	Vol.87,No.4,pp.469-478, oct 2012	0.483
58	Dr.S.Tamilselvi Ms.G.Tamilpavai	Color Texture Classification using Improved DLBP for Skin Image	European Journal of Scientific Research	Vol 97, Issue : 3, March 2013	0.736
59	Dr.S.Tamilselvi Ms.G.Tamilpavai	Multiple Representations of Perceptual Features for Texture Classification and Retrieval	International Journal of Computer Applications	Vol.40,No.20,pp.975-888 (Published online) june 2012	0.814
60	Dr.N.Shanthi Ms.R.Krishnaveni	An efficient signature scheme for Securing Multicast Communication	International Journal of Computer Applications	Vol No 7, pp 1-5, 2012	0.814
61	Dr.K.Ramar, Mr.N.Arumugam, Mr.G.Prabin DrM.Sundaram	Histogram Modified Local Contrast Enhancement for mammogram images	International Journal of Applied Soft Computing, Elsevier Publication.	Vol. 11, No. 8, pp.5809-5816, Nov 2011	2.084

- Monographs
- Chapter(s) in Books
- Editing Books
- Books with ISBN numbers with details of publishers

SI.No	Name of faculty Member	Monographs authored	Chapters authored in books	Books edited	Books authored in ISBN
-	-	-	-	-	-
-	-	-	-	-	-

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact factor – range / average
- h-index

SI.No	Name of faculty member	Number listed in international database	Citation Index	H-Index
-	-	-	-	-
-	-	-	-	-

15. Details of patents and income generated Nil

16. Areas of consultancy and income generated

Sl.No.	Title of the Work	Funding Agency	Amount
1.	CCTV surveillance system installation at Madurai Corporation	Madurai Corporation	Rs.6,45,770/-
2.	Biometric Attendance system with GPRS at Madurai Corporation	Madurai Corporation	Rs.3,80,000/-
3.	Wind – Form Monitoring System	COREGEN Technologies	Rs.4,00,000/-
4.	Installation and Maintenance of EPBAX system	Sigma Communication	Free of cost

17. Faculty recharging strategies

- Through regular Faculty Development Programs(FDP's)
- Staff club activities such as cultural, yoga classes etc.
- Motivating staff members to attend conferences and workshops in various institutions
- Staff club is arranging staff tour for the faculty members every year.

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

Sl.No.	Name of the Program	In-house projects including inter-departmental	Projects in collaboration with other industries/Institutes
1.	B.E(ECE)	98%	2%
2.	M.E(Communication Systems)	96%	4%
3.	M.E(Embedded System Technologies)	100%	-

19. Awards / recognitions received at the national and international level by

- Faculty - Nil
- Doctoral / post doctoral fellows –Nil
- Students

<b>Prizes and awards won for projects</b>				
<b>S.No</b>	<b>Name of Students</b>	<b>Event</b>	<b>Name of institute</b>	<b>Award/ Prize</b>
1	K Padmanaban Muthu Balasubramanian P Nallathambi G Maharaja T N	SPIRO- '12 – Project Expo	NEC	Best Project
2	Leena Hamsadvani A Rekha S Shermila Devi N	SIPRO- '12 – Project Expo	NEC	Selected in Top 5
3	Rubina J Veeralakshmi S Selvadhiviya N	SIPRO- '12 – Project Expo	NEC	Selected in Top 5
4	M.Najla Kothar	Mini Project	NEC	I <sup>st</sup> Prize
5	K.Ramasamy S.Santhosh Raja Masillamony	Project Presentation	NEC	II <sup>nd</sup> Prize
6	S.Sureka Nithila Princy	Project Presentation	NEC	I <sup>st</sup> Prize
7	S.Anand Chakkaravarthy P.Arumugam	Project Presentation	NEC	II <sup>nd</sup> Prize
8	M.Durai Murugan D.Gomathi Nayagam	Project Presentation	NEC	II <sup>nd</sup> Prize

<b>Paper Presentation</b>				
<b>S.No</b>	<b>Name of Students</b>	<b>Event</b>	<b>Name of the institution</b>	<b>Award/ Prize</b>
1	T N Maharaja T Ganesh	LIFONIX	GCE, Tirunelveli	Winner
2	S Pavithra S Somasundari	JAFOTECH	NEC	I st Prize
3	Gopalakrishnan P Alagu Soma Sundaram A Raju T	WEIN (EIE)	NEC	I st Prize
4	T.N.Maharaja	ALTAIR 2K12	MEPCO Schelenk Engg college, Sivakasi	II Prize
5	S Pavithra S Somasundari	ECE	Infant Jesus College of Engg., Tirunelveli	II Prize
6	V Srinivasan N Velmurugan	MECHNA	NEC	II Prize

<b>Paper Presentation</b>				
<b>S.No</b>	<b>Name of Students</b>	<b>Event</b>	<b>Name of the institution</b>	<b>Award/ Prize</b>
7	S. Sindhuja	ADITA '12	NEC	II Prize
8	Rubina.J Subashiny S	EIE Intra Collegiate	NEC	III Prize and cash prize Rs. 400
9	Tangibrijesh Chandra	Techbug	Bharat Institute of Engineering and Technology, Hyderabad	First Prize
10	Venkatesan K	Hi-Tech Fest	NEC	First Prize
11	Ranjith Kumar V	Paper Presentation	VKNSN College of Arts and Science	Second Prize
12	James dev	ADITA	NEC	Second Prize
13	Antony Snow Bharath	Paper Presentation	Kamaraj Arts and Science college	First Prize
14	J.Antony Snow Bharath	Paper Presentation	VV College of Engineering	I <sup>st</sup> Prize
15	S.Arunaa M.Najla Kothar	Paper Presentation	National Engineering College	I <sup>st</sup> Prize
16	A.Fahmitha Bhanu	Paper Presentation	National Engineering College	II <sup>nd</sup> Prize
17	R.Abinaya	Paper Presentation	National Engineering College	II <sup>nd</sup> Prize
18	S.Deiva Ganesan	Paper Presentation	National Engineering College	II <sup>nd</sup> Prize
19	D.Indhumathi	Paper Presentation	M.A.M. College of Engineering	III <sup>rd</sup> Prize
20	V.Gnana Sundari	Paper Presentation	Velammal College of Engineering & Technology	
21	J.Hari Priya	Paper Presentation	M.A.M. College of Engineering	III <sup>rd</sup> Prize
22	A.Karthika	Paper Presentation	National Engineering College	III <sup>rd</sup> Prize
23	R.Rohini K.SriLakshmi Maalai	Paper Presentation	National Engineering College	II <sup>nd</sup> Prize
24	S.Kausalyadevi &A.Akshaya	Paper Presentation	National Engineering College	II <sup>nd</sup> Prize
25	S.Ramalakshmi	Paper Presentation	Kamaraj College of Engineering and Technology	I <sup>st</sup> Prize

Other technical events				
S.No	Name of Students	Event	Name of institute	Award/ Prize
1	G Ashok Kumar M Madhan Raj	Circuit Debugging	Techfest' 12- Paavai Engineering College, Namakal	Ist Prize and Cash award Rs. 5000
2	M Madhan Raj T N Maharaja	Circuit Debugging	Infant Jesus College of Engineering	I Prize
3	S. Sindhuja	RAPIDO	PSR College of Engg., Sivakasi	First Prize & Won i-pod
4	T.N.Maharaja	Line follower	ALTAIR 2K12, MEPCO	II Prize
5	M Madhan Raj T N Maharaja	Technical Quiz	Infant Jesus College of Engineering	II Prize
6	R Latha S Dhivya	Technical Quiz	COMPONEC, NEC	II Prize
7	N.Revanth G.R.Sundararajan	Hardware Contest	Thiagarajar College of Engineering	II <sup>nd</sup> Prize
8	M.Nithya Priya	Circuit Debugging	National Engineering College	II <sup>nd</sup> Prize
9	J.Antony Snow Bharath	Circuit Debugging	VV College of Engineering	II <sup>nd</sup> Prize
		Techno Fair – 2015	District Science Centre, Tirunelveli	I <sup>st</sup> Prize

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Sl.No	Seminar/Conference/ Workshop	National/ International	Details of outstanding Participants	Source of funding
1.	“Network Simulator-2”	Two days Workshop	1.S.R.Naresh, Associate Prof., K.L.N College of Engg 2.S.Vetha, Asst. Prof.&HOD, Arulmigu Kalasalingam College of Arts&Scienc. 3.G.Gifta Jerith, Asst. Prof., V.V College of Engg.	Nil

Sl.No	Seminar/Conference/ Workshop	National/ International	Details of outstanding Participants	Source of funding
2.	“NECTAR 2K13”	Inter-college Technical symposium	1. A.Abubucker siddick, J.Arunpandi, Government College of Engg, TVL 2. K.Karthikeyan, B.Koushik Prashanth, Sri Sairam Engg College, Chennai. 3. Pon Rama.T, Dhanalakshmi.P, Mepco Schlenk Engg Col,Sivakasi	Nil
3.	“ADELCO 2K13”	National Level Conference	1. S.Sivasakthi 2.R. Brindha. 3.D.Benin Samuel 4. D.K.Bindhusa	Nil
4.	ICMR sponsored National Seminar on Research Issues in Thermography  04/10/2013 & 5/10/2013	National Seminar	1.Ms.J.Shamini,Lund University, Australia  2.Dr.G.Tamilpavai, Government College of Engineering, Tirunelveli.	
5.	“Network Simulator-2” 19/08/2014 to 20/08/2014	Two days Workshop	1. A.Emimanothaya, Kamaraj College of Engineering.  2.K.Krithika, Francis Xavier College of Engineering.	Nil
6.	“Network Simulator-2” 30/07/2015 to 01/08/2015	Three Days Hands-on-Training	1.D.Jayabharathi, Associate Professor, GVN college of Engineering.  2.S.Sivasakthi, Associate Professor, GVN college of Engineering	Nil
7.	Centre for Faculty Development, Anna University, Chennai Approved Faculty Development Training Programme on “Principles of Digital Signal Processing” 25/05/2015 to 01/06/2015	Faculty Development Training Programme	1.Ms.Aswathy, Assistant Professor, Dept of ECE, Dr.Sivanthi Aditanar College of Engineering, Tiruchendur.	Nil
8.	Seven Days Faculty Development Training Programme on EC6601 – VLSI Design	Faculty Development Training Programme	1. A.Alaimahal, AP/ECE Velammal College of Engineering and Technology 2.P.Aravind, AP/ECE Kamaraj College of Engineering	AICTE

Sl.No	Seminar/Conference/ Workshop	National/ International	Details of outstanding Participants	Source of funding
	01/12/2015- 08/12/2015		and Technology  3.Selvakumar.G, AP/ECE S V S College of Engineering	

21. Student profile course-wise:

Year wise	Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
2011-2015	UG	147	59	88	90.91	
2010-2014		143	54	89	90.84	
2009-2013		129	51	78	98.45	
2008-2012		131	55	76	94.65	
2013-2015	PG	30	5	25	100	
2012-2014		36	9	27	100	
2011-2013		19	2	17	100	
2010-2012		18	4	14	100	

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
M.E(CS)	13%	83%	4%	-
M.E(EST)	8%	92%	-	-

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? – about

Sl.No	Name of the competitive Examinations	No. of students cleared
1	Civil Services	1
2	Defense Services	-
3	NET	-
4	SLET	-
5	GATE	4
6	Any other	-

24. Student progression

Student progression	Percentage against enrolled
UG to PG	20%

<b>Student progression</b>	<b>Percentage against enrolled</b>
PG to M.Phil.	-
PG to Ph.D.	10%
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	45%
• Other than campus recruitment	20%
Entrepreneurs	5%

25. Diversity of staff

<b>Percentage of faculty who are graduates</b>	
of the same parent university	64%
from other universities within the State	33%
from other universities from other States	3%

26. Number of faculty who were awarded Ph.D., D.Sc. and Ph.D., D.Sc. during the assessment period.

Year	No. of Faculty awarded	Ph.D./D.Sc./ D.Sc.	Ph.D., D.Sc.
Before 2009	1		Ph.D.
2009-2010	2		Ph.D.
2010-2011	-		Ph.D.
2011-2016	1		Ph.D.

27. Present details about infrastructural facilities

- Library
- Internet facilities for staff and students
- Total number of class rooms
- Class rooms with ICT facility
- Students' laboratories
- Research laboratories

<b>Sl.No</b>	<b>Name of the Infrastructural Facility</b>	<b>Quantity / Details</b>
1	Library	1034 Books
2	Internet facilities for staff	All rooms and labs
3	Internet facilities for students	Available in campus
4	Total number of class rooms	10
5	Class rooms with ICT facility	Nil
6	Students' laboratories	8
7	Research laboratories	1

28. Number of students of the department getting financial assistance from College.  
Through Mr.Kannappan Memorial – Every year one student selected from first year for this scholarship and financial assistance will be provided to the student for the period of four years.
29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. – Yes,
- Discussion with the Management, Director, Principal, Dean and HOD's
  - Based on the demand of the program- single window counseling.
  - Considering the suggestions given by the staff members.
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
- PEO's is formulated for every programs.
  - A separate Program Educational Objectives(PEO's) is framed for every subject, PEO is constantly updated as per the feedback given by faculty members and industrial experts
  - Course Outcomes is framed for every subject based on the syllabus and is updated as per the feedback given by faculty members.
- b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same? –
- Yes, a feedback form filled by the students in software at the end of every semester that is used to evaluate the faculty, based on their skills such as syllabus completion, teaching methodology, technical knowledge, interaction with the student, clearing doubts of students etc..
  - This feedback make the staff members to improve their teaching skills
- c. Alumni and employers on the programmes and what is the response of the department to the same? – Yes
- An alumni's meet is arranged by the college every year, in this meet the department obtain feedback from alumni's on curriculum and teaching-learning evaluation.
  - Suggestions are considered from alumni exit survey.
  - Department consider the feedback obtained from alumni's in curriculum formation.
  - Our Alumni's in R&D organization and industries act as member in Board of Studies (BOS) to update the curriculum and syllabi to meet out the requirements of the industries.

31. List the distinguished alumni of the department (maximum 10)

Sl. No	Name	Year of passing	Designation	Company Name
1.	Mr.Devaraja Pandian	1988	HOD/ECE	BCM Polytechnic for women,Ettayapuram
2.	Mr.Godwin Gnanaraj	1988	Deputy Director	Doordarshan,Rameswaram
3.	Mr.J.Klutto Milleth	1990	Principal Research Engineer	Centre of Excellence in wireless Tech., IITM, Chennai
4.	Mr.K.Umasankar	1991	Associate Manager	Tyco Electronics Power system, Bangalore
5.	Mr.R.Meenakshi Sundaram	1995	System Manager	Wipro Technologies, Bangalore
6.	Dr.N.Sriram	1996	Professor & Head, Dept. of Medical Electronics,	M.S.Ramaiah Inst. Of Technology, Bangalore.
7.	Mr.R.Bright singh	1997	Project Manager,	Alcatel-Lucant,Chennai
8.	Mr.Ananda Sarangaram	1998	Project Manager	Monarch Innovative Tech., Pune
9.	P.Jeyaramachandran	1998	Software Engineer	AMS, Fairfax, Virginia
10	Mr.S.Ponnambalam	2006	IAS	Government of India

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

Sl. No	Date of program	Name of Program	Resource Person
1.	17.07.2012	Guest Lecture program on "Space Technology"	S.Ingersol, Scientist(SG), Indian Space Research Organisation,Mahendragiri
2.	4.08.2012	Networking Workshop on "Cisco Devices"	Mr.AthitheeraPandian, Network Consultant, Cisco Devices,Madurai
3.	30.08.2012	One day seminar on "Emerging Trends on EDA Tools"	Justus Gnanakumar, Head, Computer Aided Design and Drafting(CADD) Centre, Tirunelveli
4.	16.11.2012 & 17.11.2012	Workshop on "Microcontroller programming and OMAP basics"	Mr.Mumamil,Edgate Technologies, Bangalore

<b>Sl. No</b>	<b>Date of program</b>	<b>Name of Program</b>	<b>Resource Person</b>
5.	20.01.2013	Guest Lecture on “Bio-metrics”	Mr.Dashnamoorthy,Hardware Architect,Osteraut Group,USA
6.	20.01.2013	Guest Lecture on “How to sell yourself”	Mrs.Lavanya, Osteraut Group,USA
7.	15.02.2013 & 16.02.2013	Workshop on “Linux porting on cortex-8”	Mr. Rajasubramanian, System developer, Mistral Solutions, Bangalore.
8.	30.07.2014	One day workshop on “Recent trends and applications of Bio Medical Imaging	Dr.N.Sriram, Prof. And Head, Department of Medical Electronics, M.S.Ramaiah Institute of Technology, Bangalore
9.	18.10.2014	IEEE-AWP sponsored seminar on “Antennas”	Dr.P.H.Rao,Sameer,Chennai
10.	01.09.2014	Guest Lecture on “Art of Video encoding and decoding and its evolution”	Mr.P.Essakimuthu, Chief Scientist, RiverSilica.pvt.Ltd.,Banglore.
11.	05.09.2015	Motivational Talk on”Entrepreneurship”	Mr.P.Anandaraj, Naveen Alarm Systems India Pvt Ltd, Ekkattuthangal, Chennai.
12.	20.09.2014	One day workshop on “PCB design”	Mr.T.Senthil Kumar, Customer Support Engineer, Industrial electronics corporation, Madurai
13.	13.10.2014	Guest Lecture on Career Guidance	Mr.V.Shankar, Senior Technical Specialist, HCL Technologies, Chennai
14.	28.01.2015	ADITA2K15 -One day intra college technical symposium	Mr.C.Sarath,Tech Specialist, Entupule technologies pvt. Ltd. , Bangalore
15.	10.03.2015	NECTAR2K15-One day national lever intercollege technical symposium	Mr.J.Senthil Rengarajan, Scientist-'E' Electronics & Radar Development Establishment, DRDO, Bangalore
16.	06.08.2015	Technical Talk on “Extra Low Voltage”	Mr.S.Chitra Ranjan, Executive Engineer, T Y LIN International Pvt Ltd, Singapore.
17.	21.09.2015 – 22.09.2015	Two day “ Inter disciplinary workshop on Design and Development of small satellites”	Mr.P.Sai Kishore,Chief Coordinator, ESCI, Hyderabad.
18.	21.01.2016	ADITA2K16 -One day intra college technical symposium	Mr.Prabakaran Murugaiah,CEO & Founder,Techfetch, US based Global Technogy Job portal, USA

Sl. No	Date of program	Name of Program	Resource Person
19.	22.01.2016 &23.01.2016	Two Days Seminar on “Applications of Thermal Imaging”	Mrs.M.Menaka, Scientific Officer-‘E’, IGCAR Kalpakkam Dr.K.Vijay, Jai Dental Clinic.

33. List the teaching methods adopted by the faculty for different programmes.
1. By external experts
  2. Using different teaching aids(Black board, OHP, LCD projector....)
  3. By arranging field visits/Industrial visits
34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored? –
- By periodically conducting class committee meetings and getting comments from the students related with teaching and learning process.
  - By evaluating the students performance in subjects based on internal assessment tests that are conducted periodically conducted.
  - By periodically giving counseling/coaching for weaker section students to meet out the outcome.
35. Highlight the participation of students and faculty in extension activities.
- Department related club activities(special lectures / workshops / seminar) organized by ECE association and professional chapters such as IEEE,IETE,ISTE, IE(I) etc..
  - Faculties are attending national/international conferences, workshops in various institutions and that is useful for their research activities.
  - Students are motivated in participating in various technical symposiums, conferences in various institutions.
36. Give details of “beyond syllabus scholarly activities” of the department.
- By conducting workshops on
- Design of programmable system on-chip(PSOC)
  - Embedded system design using 8051 PIC using ARM processor
  - Embedded Linux
  - Network simulator-2(NS-2)
37. State whether the programme/ department is accredited/ graded by other agencies. Give details.
- Yes the department is accredited by National Board of Accreditation(NBA) and TCS
38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department
- Strengths:**
- Stable and dedicated staff members.
  - Well discipline and hard working students.

- Good Infrastructure
- Amicable Working atmosphere.
- Good staff-students relationship.

**Weakness:**

- Number of patents should be improved.
- R&D activities/Consultancy must be improved.
- Placement of the students must be improved.
- Number of students passing in GRE/TOFEL/GATE and administrative Service examinations is very feeble.
- Most of the students from rural areas, they are lagging in communication skills and it should be improved.

**Opportunities:**

- Curriculum and syllabus framed in such a way that the students have the opportunity to be placed in core companies.
- Students were participated in many co-curricular and extra-curricular activities in the campus to improve the communication skills and leadership qualities.
- Students are allowed to do their projects in R&D organizations like ISRO, DRDO,IGCAR, SAMEER etc., to improve their technical knowledge.
- Placement training programmes, GATE Coaching and counseling organized within the campus regularly for the career guidance of the students.
- Faculties are allowed to upgrade the skills by attending Faculty Development Programs, summer schools, winter schools and conferences in reputed institutions.

**Challenges:**

- More number of R&D Projects/Consultancy work to be achieved in the forth coming years.
- Number of Ph.D's holders in the department to be improved.
- Campus placement to be improved to a higher level.
- Students should be motivated to write more GATE/UPSC exams and to bring glory to the department.

39. Future plans of the department.

- Planning to organize funded seminars.
- Planning to get funded projects from government organizations such as DRDO,ISRO,CSIR etc..
- Planning to get MoU's signed from various universities and companies.
- Planning to develop a Centre of Excellence in Wireless Communication.
- Number of patents is to be increased.

## Evaluative Report of the Department

1. **Name of the Department** : Electrical and Electronics Engineering  
**Year of establishment** : 1994
  
2. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

Sl. No.	Names of the Programme offered	Remarks (UG/ PG/ Ph.D)
1.	B.E- Electrical and Electronics Engineering	Full time UG(Regular)
2.	M.E -High Voltage Engineering	Full Time & Part Time - PG
3.	Ph.D	Full Time & Part Time

### 3. Interdisciplinary courses and departments involved

Sl. No.	Interdisciplinary Courses offered	Year	Name of the Department Involved
1.	Fundamentals of Computing and Programming in C	I	Computer science and Engineering
2.	Engineering Graphics	I	Mechanical Engineering
3.	Basic Civil & Mechanical Engineering	I	Mechanical Engineering
4.	Transforms and Partial Differential Equations	II	Sciences & Humanities
5.	Numerical Methods, Mathematical Logic, Probability and Statistics	II	Sciences & Humanities
6.	Power Plant Engineering	II	Mechanical Engineering
7.	Data Structures and Algorithms	III	Computer science and Engineering
8.	Object Oriented Programming	III	Computer science and Engineering
9.	Principles of Management	IV	Mechanical Engineering
10.	Operating Systems	IV	Computer science and Engineering
11.	Bio-Medical Instrumentation	IV	Electronics and Instrumentation Engineering
12.	Professional Ethics	IV	Mechanical Engineering

**4. Annual/ semester/choice based credit system**

- UG (B.E- EEE) - Semester Based Credit System (Reg: 2011 and 2013) - Choice Based Credit System (Reg :2015)
- PG (M.E HVE) - Semester Based Credit System (Reg: 2011 and 2013) - Choice Based Credit System (Reg :2015)

**5. Participation of the department in the courses offered by other departments**

Courses offered by other department	Name of the Dept. involved
Basic Electrical and Electronics Engineering	Civil, Mechanical
Electrical Machines	EIE
Electrical Engineering	ECE
Electrical Drives and Control	Mechanical
Electrical Machines Laboratory	EIE
Electrical Engineering Laboratory	Mechanical
Engineering Practices Laboratory	All Departments

**6. Number of teaching posts sanctioned and filled  
(Professors/Associate Professors/Asst. Professors)**

	Sanctioned	Filled
Professor	2	2
Associate Professors	5	4
Asst. Professors	20	25

**7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./M.Phil., etc.)**

Name	Qualification	Designation	Specialization	Total Experience in Yrs	No. of Ph.D. students guided in the last 4 years
Dr. M.Willjuice Iruthayarajan	Ph.D	Professor & Head	Control System	14	06 - Pursuing
Dr.P.Subburaj	Ph.D	Professor	Power Systems	32	11- Pursuing
Dr.L.Kalaivani	Ph.D	Associate Professor (Sr.Grade)	Special Electrical Machines	15.8	04- Pursuing
Dr.M.Ravindran	Ph.D	Associate Professor	Energy Engineering	18.6	Nil
Dr.R.V.Maheswari	Ph.D	Associate Professor	High Voltage Engineering	15	Nil
Mr.N.B.Prakash	M.E	Associate Professor	Applied Electronics	13.7	Nil
Mr.G.Kanayeram	M.E	Assistant Professor (Sr.Grade)	Power Systems	15.4	Nil
Mr. M.P.E.Rajamani	M.E	Assistant Professor	Power Electronics	9.6	Nil

Name	Qualification	Designation	Specialization	Total Experience in Yrs	No. of Ph.D. students guided in the last 4 years
		(Sr.Grade)			
Mr. R.Muniraj	M.E	Assistant Professor (Sr.Grade)	Control System	9.6	Nil
Mr.J.Sivadasan	M.E	Assistant Professor (Sr.Grade)	Applied Electronics	9.3	Nil
Mr.S.Sankarakumar	M.E	Assistant Professor (Sr.Grade)	Power Electronics	9.6	Nil
Mr.S.Senthilkumar	M.E	Assistant Professor	High Voltage Engineering	6.6	Nil
Mr. B.Venkatasamy	M.E	Assistant Professor	Power Electronics	5.6	Nil
Mr.R.Madhavan	M.E	Assistant Professor	High Voltage Engineering	4.9	Nil
Ms.K.Gowthami	M.E	Assistant Professor	Embedded Systems	3.6	Nil
Mr.P.Samuel Pakianathan	M.E	Assistant Professor	High Voltage Engineering	4.7	Nil
Mr.M.Bakruthen	M.E	Assistant Professor	High Voltage Engineering	3.4	Nil
Mr.B.Vigneshwaran	M.E	Assistant Professor	High Voltage Engineering	2.7	Nil
Ms.S.Jayanthi	M.E	Assistant Professor	Power Systems	2.7	Nil
Mr.M.Genga Raj	M.E	Assistant Professor	Power Electronics	2.7	Nil
Ms.S.Divya	M.E	Assistant Professor	High Voltage Engineering	2.7	Nil
Ms.G.Shunmugalakshmi	M.E	Assistant Professor	High Voltage Engineering	1.7	Nil
Mr.M.Sivapalanirajan	M.E	Assistant Professor	Control and Instrumentation	1.7	Nil
Mr. S. Thirumalai kumar	M.E	Assistant Professor	Power Electronics	1.7	Nil
Mr. T. Sivakumar	M.E	Assistant Professor	Power Systems	1.7	Nil
Mr. K.Kumar	M.E	Assistant Professor	High Voltage Engineering	0.7	Nil
Ms. C.Nivetha Indumathi	M.E	Assistant Professor	Control and Instrumentation	0.7	Nil
Ms. D.Kavitha	M.E	Assistant Professor	Power Electronics	0.7	Nil
Ms A.Tamilarasi	M.E	Assistant Professor	Applied Electronics	0.7	Nil
Mr. A.Pandiyarajan	M.E	Assistant Professor	Power Systems	0.7	Nil
Ms. P.Subathra	M.E	Assistant Professor	Power Systems	0.7	Nil

8. Percentage of classes taken by temporary faculty – programme-wise information : Not Applicable

9. Programme-wise Student Teacher Ratio

Sl.No.	Name of the programme	Student-Teacher ratio
1.	B.E (Electrical and Electronics	13:1
2.	M.E(High Voltage Engineering)	12:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled:

Sl.	Staff Category	Sanctioned	Filled
1.	Academic support staff (Technical)	06	07
2.	Administrative staff	01	01

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.

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

Sl. No	Year	Project Title	Amount (in Lakhs)	Funding Agency
1	2008	Four Quadrant Operation of Switched Reluctance Motor with single Controllable Switch	6.85	DRDO
2	2010	Investigation of Critical electrical characteristics and UV response of transformer oil	7.68	DST
3	2013	Tuning of non-linear PID controller for Twin rotor MIMO system using Evolutionary algorithms	9.75	AICTE/RPS

**13. Research facility / centre with**

**State recognition** -

**National** -

**International recognition** -

Sl. No.	Name of the research facility / Centre	Type of Recognition (State National / International)
1	Anna University, Chennai	State Recognition

**14. Publications: Number of papers published in peer reviewed journals (National / International)**

Name	Total No of Journal Publications	Total No of Conferences Publications	Number Listed in International Database (Google Scholar etc)	Citation Index	SNIP	SJR	Impact Factor	h-Index
Dr. M.Willjuice Iruthayarajan	30	35	28	72	-	-	0.3-3.432	5
Dr.P.Subburaj	20	23	43	45	-	-	0.3-	11
Dr.L.Kalaivani	05	12	06	27	-	-	0.3-3.45	2
Dr.M.Ravindran	11	10	-		-	-	0.073	-
Dr.R.V.Maheswari	08	15	14	13	-	-	0.44-0.934	2
Mr.N.B.Prakash	07	10	12	-	-	-	0.72	2
Mr.G.Kanayeram	01	07	04	-	-	-	0.690	
Mr. M.P.E.Rajamani	03	08	06	15	-	-	0.3 – 1.04	2
Mr. R.Muniraj	01	04	-	-	-	-	-	-
Mr.J.Sivadasan	01	07	04	03	-	-	-	1
Mr.S.Sankarakumar	01	05	-	-	-	-	-	-
Mr.S.Senthilkumar	01	05	05	-	-	-	0.5	-
Mr. B.Venkatasamy	01	01	-	-	-	-	-	-
Mr.R.Madhavan	02	04	04	11	-	-	0.367-0.528	1
Ms.K.Gowthami	01	03	-		-	-		
Mr.P.Samuel Pakianathan	02	03	04	15	-	-	0.3-1.04	2
Mr.M.Bakruthen	3	7	12	13	-	-	0.44-0.939	1

Name	Total No of Journal Publications	Total No of Conferences Publications	Number Listed in International Database (Google Scholar etc)	Citation Index	SNIP	SJR	Impact Factor	h-Index
Mr.B.Vigneshwaran	07	07	12	13	-	-	0.44-0.939	2
Ms.S.Jayanthi	-	01	-	-	-	-	-	-
Mr.M.Genga Raj	01	05	-	-	-	-	-	-
Ms.S.Divya	02	05	-	-	-	-	-	-
Ms.G.Shunmugalakshmi	-	02	-	-	-	-	-	-
Mr.M.Sivapalanirajan	-	02	-	-	-	-	-	-
Mr. S. Thirumalai kumar	01	03	-	-	-	-	-	-
Mr. T. Sivakumar	-	01	-	-	-	-	-	-
Mr. K.Kumar	01	02	-	-	-	-	-	-
Ms. C.Nivetha Indumathi	-	01	-	-	-	-	-	-
Ms. D.Kavitha	-	02	-	-	-	-	-	-
Ms A.Tamilarasi	-	02	-	-	-	-	-	-
Mr. A.Pandiyarajan	01	-	-	-	-	-	-	-
Ms. P.Subathra	-	01	-	-	-	-	-	-

Sl. No.	Name of the faculty member	Monographs authored	Chapters authored in Books	Books edited	Books authored with ISBN
-	-	-	-	-	-

15. Details of patents and income generated Nil

16. Areas of consultancy and income generated

S.No.	Field	Amount (Rs.)		
		2012-13	2013-14	2014-15
1	Insulation Testing	16,000	14,800	2,000
2	Energy Monitoring and supply demand matching	-	1,10,000	1,20,000

### 17. Faculty recharging strategies

Sl. No	Staff Name	Courses Attended				UG Projects Guided	PG Projects Guided	PHD Guided
		FDP	Workshop	Conference	Seminar			
1	Dr.P.Subburaj	-	2	1	-	-	1	1
2	Dr.M.Willjuice Iruthayarajan	-	8	10(I)	-	4	6	8
3	Dr. L.Kalaivani	1(STC)	5	6(I)	4	4	6	5
4	Dr.M.Ravindran	2	3	6(I)	2	4	6	
5	Mrs. R.V.Maheswari	-	5	8(I)	4	4	8	
6	Mr. N.B.Prakash	3	3	2(I), 2(N)	1	4	6	
7	Mr. G.Kannayeram	2	4	6(I) 3(N)	1	4	6	
8	Mr. M.P.E.Rajamani	2	3	4 (I)	2	4	3	
9	Mr.R.Muniraj	1	4	3 (I)	1	4	1	
10	Mr. J.Sivadasan	2	5	3(I) & 2(N)	1	4	3	
11	Mr. S.Sankara Kumar	2	7	3	1	4	3	
12	Mr.S.Arun Sankar	1	1	1	1	2	2	
13	Mr. S.Senthil Kumar	3	6	3(I)	8	3	1	
14	Mr. B.Venkatasamy	2	2		3	3		
15	Mr.R.Madavan	1(SRF), 1(FDP)	2	1	-	3		
16	Ms. K.Gowthami	2	3		3	3		
17	Mr. P.Samuel Pakianathan	2	2	1(I)		2		
18	Mr. M.Bakruthen	3	2	6(I)	2	2		
19	Mr. B.Vigneshwaran	2	4		5	2		
20	Ms. S.Jayanthi	2	2		4	2		
21	Mr. M.Genga Raj	2	1			2		

Sl. No	Staff Name	Courses Attended				UG Projects Guided	PG Projects Guided	PHD Guided
		FDP	Workshop	Conference	Seminar			
22	Ms.S.Divya	2	3		1	2		
23	Ms.J.R.Deepeeha	1			2	1		
24	Mrs. G.Shunmugalakshmi	2	2			1		
25	Mr.M.SivaPalani Rajan	2	3	1(I)		1		
26	Mr.S.Thirumalai Kumar	3	1		1	1		

I – International Conference, N - National Conference, STC - Short Term Course, SRF - Summer Research Fellow

Recharged by attending/organising conferences, workshops, short term courses Guiding/Supervising U.G, P.G /Ph.D students executing sponsored projects and consultancy

### 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

Sl. No	Name of the Programme	% of students who have done in-house projects including inter-departmental			% of students doing projects in collaboration with industries / institutes		
		2013	2014	2015	2013	2014	2015
1.	B.E (Electrical and Electronics Engineering)	100	100	99	-	-	1
2.	M.E(High Voltage Engineering)	100	94	88	-	6	12

### 19. Awards / recognitions received at the National and International level by

Sl. No	Name of the Faculty Member	Awards /recognition received	
		National	International
1.	Dr.P.Subburaj, Professor/EEE	ISTE - Lifetime Achievement Award	-

- **Doctoral / post doctoral fellows**

Sl. No	Name of the Faculty Member	Name of the University	Country
1.	Dr.R.Karthik, AP (Sr.G)/EEE	University of Bologna	Italy

- **Students**

**University Rank Holders:**

Sl. No	Name of the Student	Name of the University	Rank	Year
1	Ms.M.Muppudathi, (BE/EEE)	Anna University of Technology, Tirunelveli	18	2012
2	Mr.Vinoth Kumar.M, (BE/EEE)	Anna University of Technology, Tirunelveli	24	2012
3	Mr.Sagadai Raju.G, (BE/EEE)	Anna University of Technology, Tirunelveli	28	2012
4	Ms.Shamly Gandhi.T and Ms. Aadharshini P.V	Anna University of Technology, Tirunelveli	33	2012
5	Ms.Rajapushpam.V, (BE/EEE)	Anna University of Technology, Tirunelveli	36	2012
6	Mr.Lakshmi Varahan. S, (BE/EEE)	Anna University of Technology, Tirunelveli	39	2012
7	Ms.Parveen Fathima.P (BE/EEE)	Anna University of Technology, Tirunelveli	42	2012
8	Ms.Jayanthi.G, (BE/EEE)	Anna University of Technology, Tirunelveli	47	2012
9	Ms.Geetha Devi.S (ME/HVE)	Anna University of Technology, Tirunelveli	1	2012
10	Ms. A. Pramila Banu (BE/EEE)	Anna University of Technology, Tirunelveli	2	2013
11	Ms. N.S. Jamuna (BE/EEE)	Anna University of Technology, Tirunelveli	6	2013
12	Ms. A. Sowmiya (BE/EEE)	Anna University of Technology, Tirunelveli	7	2013
13	Ms. D. Jenitta (BE/EEE)	Anna University of Technology, Tirunelveli	12	2013
14	Mr. R.Shylin Babu (BE/EEE)	Anna University of Technology, Tirunelveli	23	2013
15	Ms. K.Karpagavalli (BE/EEE)	Anna University of Technology, Tirunelveli	42	2013
16	Ms. S. Menaka (BE/EEE)	Anna University of Technology, Tirunelveli	50	2013
17	Ms.M Karthika (BE/EEE)	Anna University of Technology, Tirunelveli	7	2014
18	Ms. G.Jasmine Jeba (BE/EEE)	Anna University of Technology, Tirunelveli	12	2014

Sl. No	Name of the Student	Name of the University	Rank	Year
19	Ms. A. Muthuselvi (BE/EEE)	Anna University of Technology, Tirunelveli	21	2014
20	Mr.T. Karkuvelraja (BE/EEE)	Anna University of Technology, Tirunelveli	33	2014
21	Ms.Alice Sugunabai (BE/EEE)	Anna University of Technology, Tirunelveli	42	2014

### PROJECT:

Sl. No	Name of the Student	Name of the Project	Name of the Organisation	Year
1	Ms. M. Muppudathi, IV year EEE	Watch with Heart Attack Detection	Selection Committee of INEA 2012, New Delhi	2013
2	R.T. Arun Ram Prasath M.E (H.V.E)	Investigation on electrical & physical properties of Transformer Oil and natural ester oil using nano-composites	IE (I), Kolkata	2014
3	Mr.D.Vigneshwaran (M.E., HVE)	Investigating the Critical Properties OLEIC Natural Ester with Nano composites	IE (I), Kolkata	2015
4	Ms.S.Suganya (M.E., HVE)	Performance Analysis and Breakdown characteristics of XLPE cables under different artificial defects	IE (I), Kolkata	2015
5	Mr.K.Shivaneshwaran (M.E., HVE)	Investigation on Electrical & Physical property of mineral oil with Nano composites & Antioxidants	IE (I), Kolkata	2015
6	Mr.P.Shanmugam (B.E., III Year EEE)	Real Time Implementation of Railway Track Fault Detecting System using IR and Ultrasonic Technology	IE (I), Kolkata	2015
7	Mr.Pitchai Kumar Kannan. R Mr.Pon Esakki Raman. K Mr.Thirumani Krishnasami. R Mr.Saravanakumar. G (B.E., IV Year EEE)	Eyeball Sensor in Automatic Wheel Chair for Paralyzed Patients	IE (I), Kolkata	2015

**20. Seminars/ Conferences/Workshops organized and the source of Funding (National /International) with details of outstanding participants, if any.**

Sl. No	Name of the seminar / conference / workshop organized		Title	Source of funding	Date	Experts	No. of Participants
	National	International					
1	National level Technical Seminar	-	Energy efficient artificial intelligence drives - Recent trends and perspective EEDRTP'12	DRDO	14,15-09 2012	Shri Krishnamurthy, Associate Director(L) CVRDE, DRDO, Chennai	32
2	Technical workshop	-	"Implementation of Soft Computing Techniques using MATLAB"- ISCT '12"	Self supporting	18 to 20 -10-2012	-	40
3	National level Technical Seminar	-	"Recent advancements in the field of High Voltage Testing Techniques" RHVTT '12	(CSIR), New Delhi	23-10-2012	Dr.K.Elanseralathan, M.E., Ph.D., Associate Professor Dept. of EEE Pondicherry Engineering College, Pondicherry	35
4	National Level Technical Symposium	-	ALTANZIA' 13	Self supported	01-02-2013 02-02-2013	Er.Purushothaman, Assistant Executive Engineer, Distribution (TNEB)	35
5	National Level Conference	-	Resent trends in Renewable Energy ELCON '13	MNRE	20-03 - 2013	Dr.K.Srinivasa Reddy, Professor,IIT MAdras	40
6	National Level Technical Symposium	-	ALTANZIA' 14	Self supported	10-03-2014 11-03-2014	Er.Mohanan, Executive Engineer of TTPS	35
7	National Level Technical Symposium	-	ALTANZIA' 15	Self supported	11.03.2015	Mr.K.Jegan, Tech Lead Verizon Data services India, Chennai. Mr.N.Ramachandran, Sr. Electrical Engineer, Hussmann Services India	40

Sl. No	Name of the seminar / conference / workshop organized		Title	Source of funding	Date	Expert s	No. of Participants
	National	International					
						LLP,Bangalore	
8	National Level Conference	-	Advancement of Non Conventional Energy Resources using Intelligent Control Algorithm – ELCON'15	Self supported	20-03-2015	Mr. C. Perumal, Assistant Executive Engineer, TANGEDCO, Thiruvengadam	39
9	Technical workshop	-	“Implementation of Soft Computing Techniques using MATLAB”- ISCT '13”	Self Supported	23.10.2013 25.10.2013	Dr.M.Willjuice Iruthayarajan Dr.L.Kalaivani Dr.R.V.Maheswari	36
8	Technical workshop	-	“Implementation of Soft Computing Techniques using MATLAB”- ISCT '14”	Self Supported	25.08.2014 27.08.2014	Dr.M.Willjuice Iruthayarajan Dr.L.Kalaivani Dr.R.V.Maheswari Mr.N.B.PRakash	50
9	Technical workshop	-	“Implementation of Soft Computing Techniques using MATLAB”- ISCT '15”	Self Supported	05.08.2015 07.08.2015	Dr.N.Kumarappan, EAC chair, IEEE CIS Madras Chapter and Prof./EEE, Annamalai University	35
10	National level Technical Seminar	-	“Adaptive Control of Integrating Renewable Energy Sources with Smart Grid Using SCADA”- (ACSGS'15)	MNRE	09.01.2015 10.01.2015	Mr.Ennam Bhogeeswara Rao, Managing Director, Vincisive Solutions Private Limited, Bangalore	33
11	National Level FDP	-	High voltage Engineering	Anna University sponsored FDTP	08.12.2014 14.12.2014	P.Sivagami, Prof&HOD/EEE, Unnamalai Institute of Technology. Dr.Rajan Prakash,AP/EEE, Thiagarajar College of Engineering, Madurai. Mr.S.Sudalai Muthu	19

Sl. No	Name of the seminar / conference / workshop organized		Title	Source of funding	Date	Experts	No. of Participants
	National	International					
						AE/TNEB, Tuticorin Mr.T.Piraisoodi AE/TNEB, Tuticorin	

### 21. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.E (EEE)	-	100	-	-
M.E(HVE)	25	100	0	0

### 22. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Sl. No.	Batch	Number of students
1	2013	8
2	2014	12
3	2015	8

### 23. Student progression

Student progression	Against % enrolled		
	2013	2014	2015
UG to PG	11	17	6
PG to M.Phil.	NA		
PG to Ph.D.	17	6	-
Ph.D. to Post-Doctoral	NIL		
Employed Campus Selection	15	17	26
Other than campus recruitment	74	65	60
Entrepreneurship/Self-employment	NIL		

**24. Diversity of staff**

<b>Percentage of faculty who are graduates</b>	
of the same parent university	93.55%
from other universities within the State	NIL
from other universities from other States	6.45%

**25. Number of faculty who were awarded Ph.D. during the assessment Period.**

<b>Sl.No</b>	<b>Name of the Faculty</b>	<b>University</b>	<b>Awarded Year</b>
1.	Dr. R.Karthik	Anna University, Chennai	2013
2.	Dr. L.Kalaivani	Anna University, Chennai	2013
3.	Dr.M.Ravindran	Gandhigram University	2014
4.	Dr. R.V.Maheswari	Anna University, Chennai	2015

**26. Present details about infrastructural facilities**

<b>Sl. No.</b>	<b>Name of the Infrastructural Facility</b>	<b>Quantity / Details</b>	
1	Library	Books - 898 National & International Journals - 12 E-Journals - IEEE, Elsevier	
2	Internet for staff	No. of computers - 15 LAN facility - 62 Mbps, Wifi facility – 62 Mbps, Access points 8.	
3	Internet for students	No. of computers - 77 LAN facility - 62 Mbps Wifi facility – 62 Mbps, Access points 8.	
4	Number of class rooms	6 UG Class rooms(72 Seats) 4 Elective Halls 2 PG Class rooms (18 seats)	
5	Classrooms with ICT facility	Smart class room with internet facility and also LCD projector arrangements (150 Seats)	
6	Students' laboratories	<b>Name of the Lab</b>	<b>Major Equipment</b>
		Electrical Machines Lab	Programmable Variable Frequency Drive(VFD) Automatic voltage controller D.C.Rectifier 200V-250V/100A-3 No.s D.C.Rectifier 0V-50V/100A-1 No.s Electrical machine tutor

Sl. No.	Name of the Infrastructural Facility	Quantity / Details	
			Phase Shifting Transformer Digital load manager, Stroboscope DC motor generator set Salient pole & Cylindrical pole alternator
	Applied Electronics Lab		Embedded Developer and Programming kit, IGBT Based three phase Inverter kit, 7 Computers exclusively for Applied Electronics Lab
	Control and Instrumentation Lab		PID Controller unit, AC& DC position Control 10 Computers exclusively for Control and Instrumentation Lab.
	Microprocessor Lab		Digital Signal Processing kit, FPGA based Power Electronics Drives, 8085 and 8086 Microprocessor kits, 2 Computers exclusively for microprocessor lab.
	High Voltage Lab & Liquid Dielectrics Lab		140 kV DC and Two Stage, 280 kV/1.96 KJ Impulse Test Set, High Voltage Test and Measuring Equipment 100 KV AC, Automatic Capacitance and Tan Delta Test Set, 300 MHz Digital Storage Oscilloscopes, Harmonic Analyzer, Digital load manager and Stroboscope, 1 Computer exclusively for High Voltage Lab
	Computer Lab		With 41 computers including, 1 server, 3 LCD multimedia projector
	Research Simulation Lab		With 36 computers, 1 server.
	Electrical Workshop		Digital storage oscilloscope, CRO, Signal generator, Winding study motor, Hand driven generator.
7	Research Labs	High Voltage Lab & Liquid Dielectrics Lab Research Simulation Lab	

**28. Number of students of the department getting financial assistance from College.**

No. of Students who received financial assistance from college

S.No	Name of the Student	Name of the Award
1.	M. Indhumathy	Prof. S.Kannappan Memorial Scholarship
2.	P. Tamilarasi	Prof. S.Kannappan Memorial Scholarship

- Prof.S.Kannappan Memorial Scholarship for academically excellent and Economically poor students. Every year one student is selected from I year for this scholarship and financial assistance will be provided to the student for a period of 4 years.
- Alumni Association of the College is also providing scholarships to the needy students.

**29. Was any need assessment exercise undertaken before the Development of new program(s)? If so, give the methodology.**

Single window counseling based on the demand of the programme, considering the suggestions given by the stakeholders, Discussion with the management, Director, Principal, Deans & HODs

**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 the faculty during the preparation of the curriculum & in teaching-learning evaluation. Their feedback is placed before the Board of Studies of EEE Department and suitable changes are made to the curriculum and the teaching-learning evaluation.

**b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Student feedback about the faculty is taken every semester through a course end survey and it is evaluated by the HOD. In case of poor feedback about any faculty, the faculty is advised to overcome the drawbacks. It is a continuous process.

**c. Alumni and employers on the programmes and what is the response of the department to the same?**

Feedback is also collected from the alumni and employers every year for the progress of the department and student quality. Based on their inputs appropriate changes are made to meet out the department's objectives.

**31. List of distinguished alumni of the department**

<b>S. No.</b>	<b>Name of the Alumni</b>	<b>Year of study</b>	<b>Designation</b>	<b>Address</b>
1.	Mr. S. Balamurgan	1998	Senior Section Engineer	Indian Railways, trichy
2.	Dr.G.Venkatesan	1998	Principal	Narasu's Sarathy Institute of Technology, Salem
3.	Mr. S. Gnanagopal	1998	Senior Software Engineer	National Bank of Kuwait, Kuwait
4.	Mr. A. Muthushanmugam	1999	Director	Elidi Renewable Energy Pvt Ltd, Bangalore
5.	Mr. S. Raja Alagappan	1999	Research Development Manager	TCS, London
6.	Mr. M. Shah Nawaz Khan	2000	Senior Electrical Engineer	ABS consulting, Abu Dubai
7.	Mr. G.Gnana Prabhu	2001	HR manager	GD consulting groups, Chennai
8.	Mr. R. Immanuel	2001	Associate Director	iWave Embedded Intelligence, bengaluru
9.	Mr. P. Suresh	2002	Senior Testing Engineer	ETA- Power Projects, Dubai(Emirates Trading Agency- Power Project Division)
10.	Mr. S. M. Abdul Hurain Razi	2002	Project Engineer	ETA - Power Projects, Dubai (Emirates Trading Agency - Power Project Division)
11.	Mr. B. Vasantha Kumar Morais	2003	Senior Electrical Engineer	MOTT MACDONALD L.L.C (OIL & GAS DIVISION), Abu Dubai
12.	Mr. P. Ayyasamy	2004	E&I Engineer	IDE Technologies India Pvt. Ltd, NPCIL site, Kudankulam.
13.	Mr. V. Karthikeyan	2005	Manager Test Engineering	Tessolve Engineering Private Limited, Singapore.
14.	Mr. A. Aswath Ilango	2005	Project Manager	Alstom T&D India limited, Chennai.
15.	Mr. R. Senthil Kumar	2006	Senior Software Engineer	Xchanging, Singapore
16.	Mr. Thirumalaikumarasamy Ayyappan	2006	Senior Engineer	Mercedes Benz Research and Development, Bengaluru

S. No.	Name of the Alumni	Year of study	Designation	Address
17.	Mr. Muthusenthilkumar	2007	R&D Member	TVS Motor Company
18.	Mr. R. Brightson Devotta	2007	Lead QA Engineer	HP, San Jose, California, USA
19.	Mr. A. Arunachalam	2007	Electrical Engineer	IMCO, Kuwait
20.	Mr. G. Sivakumar	2008	Senior Engineer Testing and Commissioning	GET POWER PVT LTD, Gurgaon, Haryana
21.	Mr. R. Seenivasan	2008	Planning Manager	KPS world, Doha - Qatar
22.	Mr. V. Sam stephen	2008	Managing Director	E-Careerpluz Info India Private Limited, Madurai
23.	Mr. S. A. Judis	2009	Design Engineer	Cadence AMS Design Systems Pvt. Ltd., Bengaluru
24.	Mr. A.R. Neelakandan	2009	Electrical Engineer	Vedanta Aluminium Limited, Lanjigarh, Orissa.
25.	Mr. M. R.Venkatesh	2010	Team Lead	Amara Raja batteries Ltd, Chennai
26.	Mr. Mohamed Abuthahir	2011	Electrical Engineer	BMTS Engineering Works, UAE

**32. Give details of student enrichment programmes (special lectures / workshops / Seminar) with external experts**

**Seminar/Workshop**

Year	Programme	Name of the Experts
2011-2012	Implementation of Soft Computing Techniques using MATLAB (ISCT'11)	Internal Experts
	DRDO Sponsored Workshop on FPGA based controllers for Power Electronics and Drives Application. (FPGA-PED'11)	Shri Paramananda Jena, Scientist 'E', ARD, LRDE, DRDO, Bangalore
	DRDO Sponsored Seminar on Soft computing techniques and its applications in Electrical Engineering (SCTAEE'11)	Dr.S.Baskar, Professor/EEE department TCE, Madurai
	CSIR Sponsored Workshop on Design Modeling and Control of Electrical Machine. (DEMCEM'11)	Mr.Vijaya Rajeswaran MD, VI Micro systems, Chennai
	DST Sponsored Seminar on	Dr.P.Iyamperumal, Executive

Year	Programme	Name of the Experts
	Application of Artificial Intelligent Techniques in Renewable Energy Systems (AITRES' 12)	Director, Tamilnadu Science and Technology Centre, Chennai
2012-2013	Introduction to Programmable Logic Controller	Internal Experts
	Implementation Fuzzy Logic Controller using ARM processor	Internal Experts
	Introduction to MATLAB Simulation	Internal Experts
2013-2014	One Day Workshop on PLC	Mr. V. Sam Stephen and Mr. Sathish Kumar, E-Careerpluz Info India Private Limited, Madurai
	Workshop on Implementation of Soft Computing Techniques using MATLAB (ISCT '13)	Internal Experts
	CSIR Sponsored Seminar on Recent Advancement in the Field of High Voltage Testing Techniques (RHVTT-13)	Mr. Santhosh Annadurai R&D Chief, Alstom India Pvt Ltd
2014-2015	Workshop on Implementation of Soft Computing Techniques using MATLAB (ISCT '14)	Internal Experts
	Adaptive Control of Integrating Renewable Energy Sources with Smart Grid Using SCADA - (ACSGS' 15)	<ul style="list-style-type: none"> <li>• Mr. Ennam Bhogeeswara Rao, Managing Director, Vincisive Solutions Private Limited, Bangalore,</li> <li>• Mr. T. Pirai Soodi, Assistant Engineer, TNEB, Tuitcorin Thermal Power Stations</li> <li>• Mr. M. Sivalingarajan, Executive Engineer, TNEB, TANTRANSCO</li> </ul>

#### Special Lecture

Year	Experts	Area of Topic
2011-2012	Dr.M.A.Paneerselvam, Professor/Tagore Engineering College (Former Professor – Anna University Chennai)	High Voltage Testing And Insulation Coordination
	Dr.G.Venkatesan, Assistant Professor, Anna University, Chennai	Switched Reluctance Motor
	Er. R.Manian DGM/Training/Madurai	Sub Station

		Equipment and Reactive Power Management
2012-13	Mr. P.Seenivasan, Deputy Manager, Dharani sugar industries, Vasudevanallur	Industrial Automation
	Mr. M.Chandrasekaran, Assistant Manager, TNPL Wind Farm	Green Energy and System of Wind Energy
	Mr. S.Balamurugan, Managing Partner, Meenatchi Transformer, Madurai.	Power transformer testing and protection equipment system
	Mr.R.Vivek, VI Micro System	Introduction about DSP2812
2013-2014	Mr. Muthuraj, Senior Manager, R&D, Crompton Greaves (P) Ltd, Mumbai	Recent Trends in High Voltage Engineering
2014-2015	Dr.Mangal Sundar, Professor IIT Chennai	Online Courses

- Interactions with distinguished alumni are arranged for every year students at regular intervals.
- EEE Association is organizing an Inter College Technical Symposium every year.

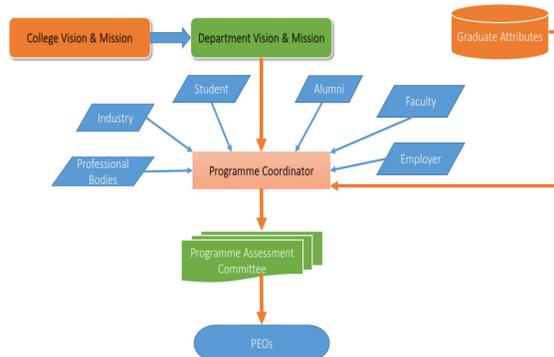
**33.List the teaching methods adopted by the faculty for different programmes.**

- Teaching Aids:
  - Smart board
  - ICT
  - LCD
  - NPTEL Videos
  - Animations
  - DEMO
- Teaching methods
  - Laboratory oriented lectures
  - Assignments on recent trends
  - Software programming sessions on specific applications
  - Mini projects
  - Guest Lectures
  - Provision to participate in conferences and symposiums in other institutes.

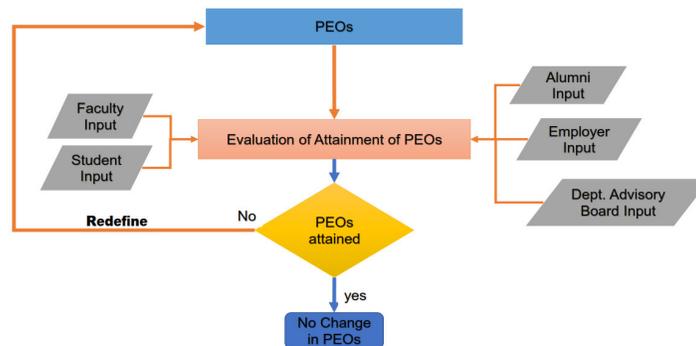
**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

❖ **Processes of Programme Educational Objectives (PEOs)**

✓ **Process for establishing the PEOs**

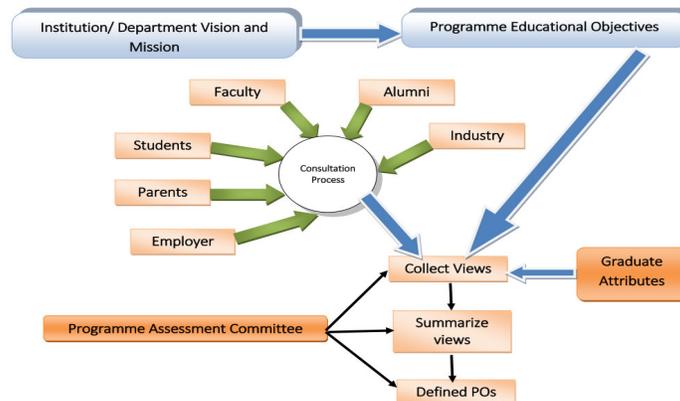


✓ **Process for redefining PEOs**

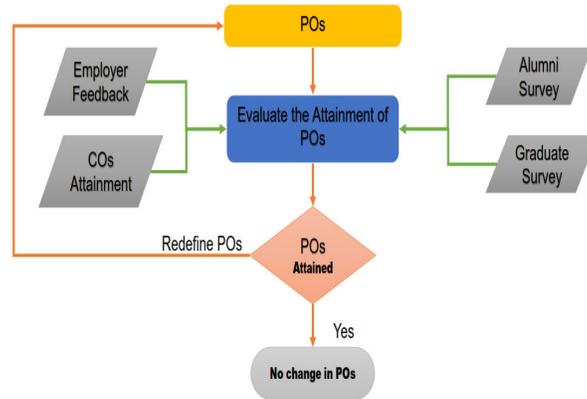


❖ **Processes of Programme Outcomes (POs)**

✓ **Process for defining Pos**

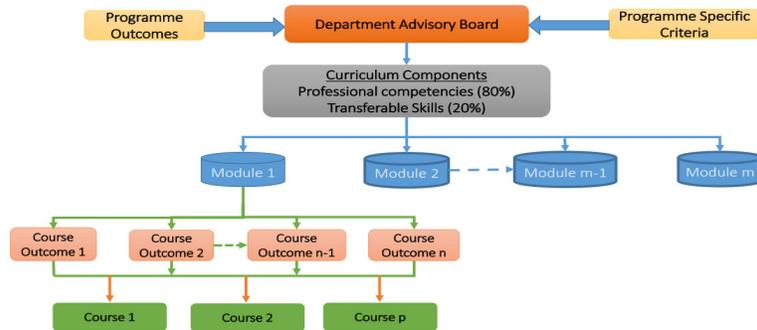


✓ Process for revising / defining POs

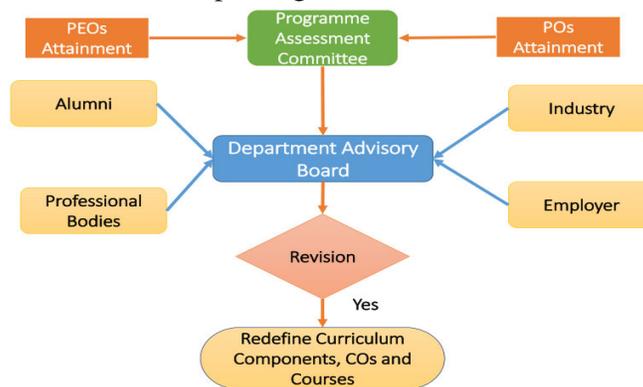


❖ Processes of the program curriculum

✓ Process for designing the program curriculum



✓ Process for improving courses and curriculum



➤ After assessment of programme outcomes, the programme assessment committee reviews the attainment level of POs and recommends the module and course coordinator to make improvement for attaining better level. Based on that, following action will be taken.

- The course coordinators analyze the performance of the students in continuous assessment tests, assignment etc. Based on that, appropriate content delivery methods are employed.
- The module coordinators monitor the performance of the students and ensure whether the targets are met successfully.
- Moreover to improve the performance of the students, alumni interaction, industrial visit, special interest activities are employed.

### 35. Highlight the participation of students and faculty in extension activities.

#### Students:

Sl. No	Name of the Student	Name of the Project	Name of the Organisation	Year
1.	P.Rajeswari & M.Kiruthika Devi	RF Navigator for Blind	TNSCST	2011-2012
2.	M. Muppudathi,	Watch with Heart Attack Detection	Selection Committee of INEA 2012, New Delhi	2011-2012
3.	M.Muppudathi & P.Punitha Valli	Electrical Wheel Chair	1 <sup>st</sup> Prize from TNSCST	2011-2012
4.	R.T. Arun Ram Prasath	Investigations on Electrical and Physical Properties of Transformer oil and Natural Ester Oil Using Nano composites	IE(I), Kolkata	2013-2014
5.	D. Vigneshwaran	Investigating the Critical Properties of Olelic Natual Ester with Nano composites	IE(I), Kolkata	2014-2015
6.	S. Suganya	Performance analysis and breakdown characteristics of XLPE cables under different artificail defects	IE(I), Kolkata	2014-2015
7.	K. Shivaneshwaran	Investigation on Electrical and Physical Properties of Mineral oil with Nano composites and Antioxidants	IE(I), Kolkata	2014-2015

<b>Sl. No</b>	<b>Name of the Student</b>	<b>Name of the Project</b>	<b>Name of the Organisation</b>	<b>Year</b>
8.	P. Shanmugam	Real time implementatioon of Railway Track Fault Detecting System using IR and Ultrasonic Technology	IE(I), Kolkata	2014-2015
9.	R. Pitchai Kumar Kannan, K. Pon Esakki Raman, R. Thirumani Krishnamani, G. Saravanakumar	Eyeball Sensor in Automatic Wheel Chiar for Paralyzed Patients	IE(I), Kolkata	2014-2015
10.	A. Venkat Subramanian	Performance Enhancement in Smart Environment using IOT	5 <sup>th</sup> International Conference on Future Information Technology, Journal of Industrial and Intelligent Information, Bangkok, Thailand	2014-2015
11.	G.Levekka G.Antany Mekala B.Deivashree G.Muthu Lakshmi	Automatic Plant Watering System using Grey water	SIPRO 2k15, National Engineering College, Kovilpatti	2014-2015
12.	S.P.Atul Krishna G.Aneruth Mani M.Balakrishnan A.BalaChandar	Stress Meter based on principle skin resistance	SIPRO 2k15, National Engineering College, Kovilpatti	2014-2015
13.	R.Felshiya Rajakumari R.Nanthini Dhanalakshmi	Automatic Plant Irrigation System using microcontroller	SIPRO 2k15, National Engineering College, Kovilpatti	2014-2015
14.	P.Amarnath M.Gurusamy K.Ashok Kumar M.Kesavamani	LPG gas leakage alarm circuit	SIPRO 2k15, National Engineering College, Kovilpatti	2014-2015

- Apart from above our students have participated in many cocurricular and extracurricular events such as paper presentations, symposiums, workshops, project exhibitions, sports, social club activities.

**Faculty:**

**Expert Committee Members:**

S. No	Name of Staff	Member
1.	Dr. P. Subburaj, Professor	International Journal/conference Reviewer, Doctral Committee Member
2.	Dr. M. Willjuice Iruthayarajan Professor/Head	Board Studies Expert Member (Sethu Institutue of Technology), International Journal/conference Reviewer, Doctral Committee Member
3.	Dr. L. Kalaivani, Asso. Prof. (SG)	International Journal/conference Reviewer, Doctral Committee Member
4.	Dr. R.V.Maheswari, Asso. Prof	International Journal Reviewer
5.	Mr. N. B. Prakash, Asso. Prof	Consulatant for K.R. Exports Ltd.
6.	Mr. M.P.E. Rajamani, Asst. Prof. (SG)	International Journal Reviewer
7.	Mr. S. Senthilkumar, Asst. Prof.	International Journal Reviewer
8.	Mr. R. Madavan, Asst. Prof.	International Journal Reviewer
9.	Mr. P. Samuel Pakianathan Asst. Prof.	International Journal Reviewer
10.	Mr. M.Bakruthen, Asst. Prof.	International Journal Reviewer

**Expert lectures delivered:**

S. No	Name of Staff	Year	Topic	Venue
1.	Dr. P. Subburaj, Professor	2014-2015	overvoltage and its Protection	National Engg. College, Kovilaptti
			Conventional grid and their challenges	National Engg. College, Kovilaptti
2.	Dr. M. Willjuice Iruthayarajan Professor/Head	2011-2012	Optimization Techniques for Communication Engg.	CSE Dept., KLN College of Engg., Madurai
			Electrical Engineering Applications for Evolutionary	National Engg. College, Kovilaptti

S. No	Name of Staff	Year	Topic	Venue
			Computation	
			Introduction to Genetic Algorithm and its implementation using MATLAB	National Engg. College, Kovilapatti
			Intelligent Controller using Evolutionary Computation	National Engg. College, Kovilapatti
			Introduction to Genetic Algorithm and its application to Renewable Energy Systems	National Engg. College, Kovilapatti
		2012-2013	Genetic Algorithm based design of SRM Controller	National Engg. College, Kovilapatti
			Introduction to Genetic Algorithm and Particle Swarm Optimization and its implementation using MATLAB	National Engg. College, Kovilapatti
			Genetic Algorithm based design of Nuclear reactor controller	CSE, National Engg. College, Kovilapatti
			Introduction to Genetic Algorithm	CSE (PG), National Engg. College, Kovilapatti
			Introduction to Evolutionary Computation, Particle Swarm Optimization and Differential Evolution and their Engg. Applications	EEE Dept., University college of Engg., Panruti.
		2013-2014	Evolutionary Algorithm and its application to Non Destructive Testing	National Engg. College, Kovilapatti
			Evolutionary Algorithm based Cost Minimization of	Central Power Research Institute, Bangalore

S. No	Name of Staff	Year	Topic	Venue	
			Hybrid Power Generation System		
			Optimization of Controllers in Hybrid Power Generation System	Central Power Research Institute, Bangalore	
			Control System Engineering	SCAD College of Engineering and Technology	
		2014-2015		Introduction of PSO	National Engg. College, Kovilpatti
				Workshop on MATLAB	St. Mary's College, Tuticorin
				Evolutionary Algorithm and its Application to Controller Tuning	Noorul Islam Center for Higher Education, Thucklay
				Evolutionary Algorithm and its Application to Control System	Kamaraj College of Engineering and Technology, Virudhunagar
				Overview of Evolutionary Algorithm	National Engg. College, Kovilpatti
3.	Dr. L. Kalaivani, Asso. Prof. (SG)	2011-2012	'Implementation of Soft Computing Techniques using MATLAB'	National Engg. College, Kovilpatti	
			CSIR Sponsored Seminar 'Design, Modelling and Control of Eletrical Machines and Drives' - DMCEM'2011	National Engg. College, Kovilpatti	
			Soft Computing Techniques using MATLAB	Government College of Engg, Tirunelveli	
		2012-2013	'Implementation of Soft Computing Techniques using	National Engg. College, Kovilpatti	

S. No	Name of Staff	Year	Topic	Venue
			MATLAB'	
			Introduction to MATLAB	National Engg. College, Kovilpatti
			Artificial Intelligence Techniques using MATLAB	Sardar Raja College of Engg, Alangulam
		2013-2014	Application of knowledge representation for Power Electronics	Govt. college Engg., Tirunelveli
		2014-2015	Introduction to GA and Implementation of ANFIS using MATLAB	National Engg. College, Kovilpatti
			FIR Filter Design using MATLAB	National Engg. College, Kovilpatti
4.	Dr. M.Ravindran Asso. Prof	2012-2013	Special Machines	SVCET, Puliankudi
			Power System Operation and Control	Chandy Engineeting College, Tuticorin
			Key note address about Energy Savings Inauguration of "Institution of Engineers"	Lakshmi Ammal Polytechnic College K.R. Nagar, Kovilpatti
		2013-2014	Magnetic Motor and Generator	Kongu Engg. College Perundurai
			Electrical Machines	Sardhar Raja college of Engineering, Alangulam
			Energy Awareness Program	TNEB, Kovilpatti
		2014-2015	Self Relaxation	National Engg. College, Kovilpatti
			"Do's and Dont's for NSS volunteers in Social Service"	National Engg. College, Kovilpatti
			Dengue Fever with	Arunachalapuram

S. No	Name of Staff	Year	Topic	Venue
			NSS volunteers in Social Service	
			Energy Awareness Program	Manthithopu, Kovilpatti
5.	Dr. R.V.Maheswari Asso. Prof	2011-2012	'Implementation of Soft Computing Techniques using MATLAB'	National Engg. College, Kovilpatti
		2012-2013	FDP on High Voltage Engg 'Partial Discharge Analysis'	KLN College of Information & Technology
			Implementation of Support Vector Machine in High Voltage	National Engg. College, Kovilpatti
			Control System – Time domain Analysis	Sardar Raja College of Engg, Alangulam
		2013-2014	High Voltage Testing Techniques	Cape Institute of Technology, Tirunelveli
		2014-2015	Introduction to MATLAB, Neural Network and Support Vector Machine	National Engg. College, Kovilpatti
			Generation of High Voltages, Insulation Coordination and Bewley's lattice diagram	National Engg. College, Kovilpatti
6.	Mr. N.B.Prakash, Asso. Prof	2014-2015	Introduction to Fuzzy Logic	National Engg. College, Kovilpatti
7.	Mr.G.Kannayeram, Asst. Prof. (SG)	2014-2015	Introduction to Smart Grid and its Topologies	
8.	Mr.M.P.E.Rajamani, Asst. Prof. (SG)	2012-2013	An Efficient Power Converter for Photovoltaic Applications	National Engg. College, Kovilpatti
		2013-2014	Condition Monitoring of High Voltage Power Apparatus	National Engg. College, Kovilpatti

<b>S. No</b>	<b>Name of Staff</b>	<b>Year</b>	<b>Topic</b>	<b>Venue</b>
9.	Mr. S. Senthilkumar, Asst. Prof.	2014- 2015	High Voltage Testing Techniques	National Engg. College, Kovilpatti
10.	Mr. R. Madavan, Asst. Prof.	2014- 2015	Measurement of High Current and Digital Techniques	National Engg. College, Kovilpatti
11.	Mr.B. Venkatasamy, Asst. Prof.	2013- 2014	A Review of Electronics and Circuit Troubleshooting [IE (I) NEC]	National Engineering College, Kovilpatti,
			PCB preparation using software [ IEEE Student Branch]	National Engineering College, Kovilpatti,
		2014- 2015	Hands on Training – PROTEUS software [ IEEE Student Branch]	National Engineering College, Kovilpatti,
12.	Mr. M.Bakruthen, Asst. Prof.	2014- 2015	Introduction to High Voltage Laboratory	National Engineering College
			Gaseous breakdown in uniform and non- uniform fields	National Engineering College
			Electric field computation using ANSYS	National Engineering College
			Conduction and breakdown in Liquid Insulations	National Engineering College
13.	Mr.B.Vigneshwaran, Asst. Prof.	2014- 2015	Introduction to High Voltage Laboratory	National Engineering College
			Electric field computation using ANSYS	National Engineering College
			Breakdown in Solid and Composite Dielectrics	National Engineering College
			Electric field computation using COMSOL	National Engineering College

- Apart from above our faculties have delivered in many expert lectures in Special Interest group (SIG) activities.

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- Students learn latest trends in the field through the following activities at regular intervals:
  - Special Interest Group (SIG) Activities
    - ✓ Seminar Presentations by Faculty and Students
    - ✓ Hands on training courses on the areas like Electrical Maintenance, PSIM, VLSI, PIC Micro controller, PCB Design, MATLAB and LABVIEW
    - ✓ Motivating students to take up real world applicatons oriented projects
    - ✓ Project Theme and Paper Presentation
  - EEE Association Activities
    - ✓ Quiz and Techincial Paper Presentation
    - ✓ Workshop and Hand on training on COMSOL, MATLAB
  - Guest lectures from eminent persons in Industry, Academia and Alumni
  - Industrial visits
  - Participating in Workshops and Conferences
  - Solving social problems through projects

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Accreditation Agency	Period of Accreditation	Remarks
NBA	2014-2016	Tier I Category
NAAC	2014-2019	Grade “B”

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

- Strengths:
  - Accredited by NBA, New Delhi under Tier – I Catergory for two years
  - Under the Autonomous scheme, curriculum and syllabus for under graduate and post graduate courses are framed by the faculties and stakeholders like industrialist, Alumni.
  - Industry oriented syllabus are formed by industries expert members and approved by department BOS
  - High Voltage Engineering, a unique PG course offered in our college among affiliated colleges of Anna University.
  - Good Faculty retention ratio
  - Recognized as Research Centre by Anna University.

- Funded Projects from various funding Agencies like DST, DRDO, AICTE, IE(I).
- Publishing Research Articles in referred journals and Conferences
- Well-equipped laboratory, library and internet Facilities
- Maintaining and upgrading facilities
- University rank holders
- Seminars/Workshops/Conferences are organized regularly every year by receiving grants from various funding agencies.
- Weaknesses:
  - Students are lagging in oral and written communication skills due to rural background
  - Less number of real world applications oriented projects
  - The tendency of research scholars to prefer computer-based research over experimental research due to inadequate funds
  - Less industry-institute interaction
- Opportunities:
 

Many alumni are offering substantial support to their Alma Mater

  - IT tools are becoming available for Technology-Enhanced Learning
  - Most real-life problems require contributions from Engineers
  - Faculty development opportunities like attending FDTP, Internship Programmes
- Challenges:
  - Making the students aware of the latest technologies in Electrical & Electronics Engineering
  - Development of products through student project

### **39. Future plans of the department.**

- To improve the faculty research publication record with real time projects.
- To improve the placement rate of the students.
- Modernization and sophistication of department laboratories with latest technological advancements.
- To improve the collaborations with other institutes within and outside India.
- To develop linkage with industry to achieve excellence in research and consultancy practices.
- Improve the Industry- Institute Interaction and to mould the students to the level of industrial needs.
- High emphasis on personality development programmes to students along with regular academics.

### Evaluative Report of the Department

1. Name of the Department & its year of establishment:  
**Department of Electronics and Instrumentation Engineering & 1994**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) -  
 U.G. – B.E. Electronics and Instrumentation Engineering (1994)  
 P.G – M.E. Control and Instrumentation (2011)  
 Ph.D. – Parttime
3. Interdisciplinary courses and departments involved : Nil
4. Annual/ semester/choice based credit system : Semester Credit System
5. Participation of the department in the courses offered by other departments: NIL
6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

	Sanctioned	Filled
Professor	1	1
Associate Professors	2	5
Asst. Professors	9	10

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 in the last 4 years
1	Dr.B.Sankaragomathi	M.E., Ph.D	Prof. & Head	Digital Image Processing	29.5	10
2	Dr.D.Santhi	M.Tech	Associate. Prof. (SG)	Bio Medical Engineering	15	-
3	Mr.Jackson Daniel	M.Tech	Associate. Prof.	Bio Medical Engineering	16.7	-
4	Mr.K.Shankar	M.Tech	Associate .Prof	Bio Medical Engineering	16.6	-
5	Mr.V.Suresh	M.E	Asst.Prof.	Process Control	13	-

S. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
6	Dr.S.Manikandan	M.E	Asst.Prof.	Medical Electronics	14.4	-
7	Mr.T.Ramakrishnan	M.Tech	Asst.Prof.	Bio Medical Engineering	14.7	-
8	Mrs.M.CarmelSobia	M.E	Asst.Prof.	Control and Instrumentation	15.7	-
9	Mrs.A.Geetha	M.E	Asst.Prof.	Power Electronics & Drives	10.7	-
10	Mrs.J.BabithaThangamalar	M.E	Asst.Prof.	Applied Electronics	12.1	-
11	Ms.PritheeMadan	M.E	Asst.Prof.	Applied Electronics	6.8	-
12	Mr.S.Siva Suriya Narayanan	M.E	Asst.Prof.	Power Electronics & Drives	3.7	-
13	Mr.N.Chermakani	M.E.	Asst.Prof.	Control and Instrumentation	2.7	-
14	Ms.J.JanetPaulin	M.E.	Asst.Prof.	Control and Instrumentation	0.8	-
15	Mr.N.MohamedAthil	M.E.	Asst.Prof.	Embedded System technologies	0.8	-
16	Ms.P.X.Nancy Grace	M.E.	Asst.Prof.	Control and Instrumentation	0.7	-

8. Percentage of classes taken by temporary faculty - programme - wise information : Nil

9. Programme - wise Student Teacher Ratio

Sl.No.	Name of the programme	Student-Teacher ratio
1.	B.E (Electronics and Instrumentation Engineering)	15:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Support staff (technical) : 03

Administrative staff : 02

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 -FIST; DBT, ICSSR, etc.; total grants received

S. No.	Name of the faculty	Project Title	Duration	Amount (Rs)	Status
1	<b>Principal Investigator:</b> Dr.D.Manimegalai <b>Co- Investigator:</b> Mrs.D.Santhi	Diagnosis of Diabetic Retinopathy by feature extraction from retinal images sanctioned by ICMR, New Delhi	3 Yrs 2012 - 2015	13,09,271/-	Completed
2	<b>Chief Coordinators</b> Dr. A. Abudhahir	Modernization of Measurements and Instrumentation laboratory sanctioned by All India council of for Technical Education (AICTE)	2012 – 2013	6,00,000/-	Completed
3	<b>Principal Investigator:</b> Dr.A.Abudhahir, <b>Co- Investigator:</b> Mr.Jackson Daniel Mr.V.Suresh	Development of Hall Sensor array based Magnetic Flux Leakage(MFL) system for non-destructive image and evaluation of localized defects in ferromagnetic steam generator tube sanctioned by Board of Research in Nuclear Sciences (BRNS), Mumbai	3 Yrs 2011 - 2013	23,56,900/-	Completed

13. Research centre with :

**Staterecognition** -

**National** -

**International recognition** -

Sl. No.	Name of the research facility / Centre	Type of Recognition (State National / International)
1	Anna University, Chennai	State Recognition

14. Publications: \* number of papers published in peer reviewed journals (national / international)

#### International Journal

S. No.	Name of the Authors	Title of Paper	Name of Journal	Page No. & Volume	Year of Publication	Impact Factor
1	Dr.B.Sankaragomathi	MRI Brain Images Healthy and Pathological Tissues Classification with the Aid of Improved Particle Swarm Optimization and Neural Network	Hindawi Publishing Corporation, Computational and Mathematical Methods in Medicine	Volume 2015, Article ID 807826, 12 pages	2015	
2	Dr.B.Sankaragomathi Ms.K.R.Kanagavalli	A Bluetooth Mobile AdHoc Network Communication Topologies	Journal of Global Research in Computer Science	Volume 5, No. 1, pp.12-15	2014	
3	Dr.B.Sankaragomathi Ms.M.AntonyFreeda Rani	Auto-tuning of PID Controller for PMDC Motor Drives using Genetic Algorithm	European Journal of Scientific Research	Vol.95, No.4, pp.469-474	2013	
4	Dr.B.Sankaragomathi Ms.J.Umadevi&Dr.B.Sasikumar	An effective Color face recognition based on best color feature selection algorithm using weighted features Fusion System	International Journal of Computers & Technology	Vol.8, No.2, pp.787 – 795	2013	
5	Dr.B.Sankaragomathi Ms.M.AntonyFreeda Rani	Strategic Comparison Of PMDC	International Journal of Engineering	Vol. 2 Issue 7, pp.310 – 322	2013	

S. No.	Name of the Authors	Title of Paper	Name of Journal	Page No. & Volume	Year of Publication	Impact Factor
		Drive Performance Based On conventional And Genetic Algorithm Based Tuning Of PID	Research & Technology (IJERT)			
6	Dr.B.Sankaragomathi Mr.V.Arunachalam, Mr.I.Sorimuthu&Mr.V.R ajagopal	Automatic fast Video object deduction and tracking on video surveillance system	ICTACT Journal on Image and Video Processing	Vol. 3, No.1, pp. 479-484	2012	
7	Dr.B.Sankaragomathi Ms.V.Sheejakumari	Healthy and Pathological Tissues Classification in MRI Brain Images using Hybrid Genetic Algorithm - Neural Network (HGANN) Approach	European Journal of Scientific Research	Vol.87, No.2, pp.212-226	2012	
8	Dr.A.Abudhahir A.H.Ragamathunisa Begum D.Manimegalai	Optimum coefficients of discrete orthogonal TCHEBICH EF moment Transform to improve the performance of image compression	Malaysian Journal of Computer Science	Vol.26(1), No.1, pp.60-75.	2013	0.167
9	Dr.A.Abudhahir N.Chermakani, V.Suresh, PritheeMadan	Frequency Response based PID Controller Design with Set point Filter	International Journal of Computer Applications	(0975 – 8887) PP:25-28	2013	
10	Dr.A.Abudhahir R.Jayakumari, K.shankar	Fabrication and Testing of Thermal Pain Inducer	International Journal of Computer Applications	(0975 – 8887) PP:10-12	2013	
11	Dr.A.Abudhahir S.Sangeetha, Jackson Daniel	Characterization of Defects in Magnetic	International Journal of Computer Applications	(0975 – 8887) PP:10-12	2013	

S. No.	Name of the Authors	Title of Paper	Name of Journal	Page No. & Volume	Year of Publication	Impact Factor
		Flux Leakage Images				
12	Mr.Jackson Daniel Ms.J.JanetPaulin	Krawtchouk Moment Based Characterization of Defects in Magnetic Flux Leakage (MFL) Images	IJAER - International Journal of Applied Engineering Research	Vol.10 No.20 ISSN 0973-4562	2015	
13	Dr.D.Santhi Dr.D.Manimegalai, and S.Karkuzhali	Diagnosis of Diabetic Retinopathy by Exudates detection using Clustering Techniques.	Biomedical Engineering-applications, Basics and Communications		2014	
14	D.Santhi Dr.D.Manimegalai	An Efficient approach to locate optic disc center , blood vessels and macula in Retinal Image	Biomedical Engineering-applications, Basics and Communications		2012	
15	D.Santhi Dr.D.Manimegalai, Mrs.S.Karkuzhali	Locating Optic Disc center and Segmenting Blood vessels in Retinal Images for screening system of Diabetic Retinopathy	International journal of Research Review in information Technology	Vol.1, Page. No. 21 - 27	2011	
16	V.Suresh V.K.GopperundeviDr.A. Abudhahir R.Antonysamy K.Muthukkutti	Simple Algorithm for the Magnetic Field Computation in Bobbin Coil Arrangement	International Journal of Innovative Research in Computer and Communication Engineering	Vol.2, Special Issue 1	2014	
17	Dr.S.Manikandan Dr.Ramar	Liver tumor segmentation using single level set method	International Journal of Applied Engineering Research	Vol. 10, No. 20 (2015) Special Issues pp.15717-	MAY 2015	-

S. No.	Name of the Authors	Title of Paper	Name of Journal	Page No. & Volume	Year of Publication	Impact Factor
		with shape and intensity prior	(IJAER)	15721.		
18	Dr.S.Manikandan Dr.Ramar	Multilevel thresholding for Segmentation of medical brain images using real coded algorithm	Elsevier-Measurement	Vol. 47 & PP. 558-568	January 2014	1.484
19	Mrs.M.CarmelSobia Mrs.A.Geetha	Facial Expression Recognition using DLBP and GLCM to control a wheelchair	International journal of applied engineering research	vol.10 no.19	2015	
20	Mrs.M.CarmelSobia Mrs.A.Geetha	Appraising the profundity of facial action recognition for time sequential facial expression image analysis	International journal of applied engineering research	vol.10 no.20	2015	
21	Mrs.A.Geetha Mrs.M.CarmelSobia	Studies on NDT Curve establishment of AA 5052 Honey Comb Sandwich Panel using Fokker Bond Tester	International Journal of Applied Engineering Research	Vol.10, no. 15	2015	
22	Mrs.J.BabithaThangamalar, AP(SG)	Implementation of Transducer Linearization Using Tanner EDA Tool	International Journal of Applied Engineering Research, Research India Publications (Annexure - II)	ISSN 0973-4562 Volume 10 Number 19(2015), PP. 14947-14950	2015	
23	Mrs.PritheeMadan, AP	Frequency Response based PID Controller Design with	International Journal of Computer Applications	0975 – 8887	2014	

S. No.	Name of the Authors	Title of Paper	Name of Journal	Page No. & Volume	Year of Publication	Impact Factor
		Set point Filter				

### National Journal

S. No.	Name of the Authors	Title of Paper	Name of Journal	Page No. & Volume	Year of Publication	Impact Factor
1	S. Manikandan K. Ramar, M. WilljuiceIruthayaran, K.G. Srinivasagan	Multilevel thresholding for segmentation of medical brain images using real coded genetic algorithm	Measurement	Volume 47 Pages 558-568	2014	
2	Dr.B.Sankaragomathi Ms.M.S.Anandhi& Mr.T.Ramakrishnan	A Novel Approach for the Classification of Brain Computed Tomography Images	National Journal of Technology		2013	
3	Dr.A.Abudhahir A.N.AbdulHaque, V.Suresh	Simulation Study of Different Magnetizers for MFL Testing in Steel Tubes	Journal of Emerging Technologies – Electrical Engineering	Vol :1 No.1 Special Issue – ICBDM PP:86-90.	2013	

\* Monographs - NIL

\* Chapter(s) in Books - NIL

\* Editing Books – NIL

\* Books with ISBN numbers with details of publishers:

**1.Dr.B.Sankaragomathi, Prof. & Head**

***Dept. of Electronics and Instrumentation Engg.***

(i) Authored a Text Book on ‘Process Control Principles and Applications’

Year of Publication : April, 2000

Publisher : JJ Publications, Madurai.

(ii) Authored a Text Book on ‘Signal Processing and Networks

Year of Publication : April, 2000

Publisher : JJ Publications, Madurai.

\* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

\* Citation Index – range / average

\* SNIP

\* SJR

\* Impact factor – range / average

\* h-index

S. No	Name of the faculty member	Number listed in Intl. database (Web of science, scopes science directory etc.	Citation index	h-index
1	Dr.B.Sankaragomathi	Scopus ID 23092229500	1	1

15. Details of patents and income generated - Nil

16. Areas of consultancy and income generated - Nil

17. Faculty recharging strategies

Faculty are motivated to attend Workshop, Seminar and International Conference

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

Sl.No.	Name of the Project	Sponsoring Authority
1.	Automatic Wet Grinder	Alumini Association NEC Rs.10,000/-

19. Awards / recognitions received at the national and international level by

- Faculty - Dr.B.Sankaragomathi achieved following awards
  - ❖ Best Faculty award through Nehru Group of Institutions - 2011
  - ❖ Periyar award through ISTE - 2011
- Doctoral / post doctoral fellows - 3
- Students

S. No.	Name of the Student	Name of the Event	Award / Prize	Venue & Date
1	N.Jagadeesan (2011 – 2015 Batch)	14 <sup>th</sup> ISTE TN&P Section Annual Convention	Best student award	12.09.2014 NEC
2	K.Tamilselvi (2010 – 2014 Batch)	Engineers & Scientists Association (E&SA) Student	Consolation Prize	26.04.2014, Neyveli.

		Engineer Award 2014		
3	Ms.M.S. Anandhi, (2012-2014 Batch, M.E. Control and Instrumentation)	International Conference on	Best Paper Award	12.12.2013 to 14.12.2013 PSG College of Technology, Coimbatore

20. Seminars/ Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.

Sl. No.	Name of the facility	Amount of Grant	Authority granted
1	National level Seminar on“Advancements in medical Engineering towards Research”- AMER ‘11	Rs.30,000/-	CSIR
2	National level Seminar on“Advancements in medical Engineering towards Research”- AMER ‘11	Rs.35,000/-	DRDO
3	Issues on Non Destructive Evaluation “RINDE 13”	Rs.40,000/-	BRNS

21. Student profile course-wise:

	Year	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
B.E. EIE	2011-12	-	22	43	100	100
	2012-13	-	30	35	100	100
	2013-14	-	35	34	97.14	100
	2014-15	-	32	40	81.25	97.5

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.E.(EIE)	100	-	-	-

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? GATE –

- Mr.S.ArulManikandan, (2009 - 2013) IV Year EIE has secured a score of 77 Percentile in CAT 2013 Examination.

- Ms.M.Sukanya Lakshmi, (2009 - 2013) has secured a score of 17.67 Percentile in GATE 2013 Examination.
- V.Sankarraj,(2001 - 2005 Batch) has secured a score of 96.37 Percentile in GATE 2005 examination.
- S. Manikandan from (1995-1999) batch secured 94.53 percentile in GATE 2004.
- T.Vijayaragavan from (1999-2003) batch secured ALL INDIA THIRD RANK in GATE 2003.

24. Student progression

Student progression	Percentage against enrolled
UG to PG	5.5%
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	23.2%
• Other than campus recruitment	5%
Entrepreneurs	-

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	68.75
from other universities within the State	31.25
from other universities from other States	-

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. **Ph.D – 3**

1. Dr.B.Sankaragomathi, Prof. & Head
2. Dr.D.Santhi, Asso.Prof. (SG)
3. Dr.S.Manikandan, Asso.Prof.

27. Present details about infrastructural facilities

a) Library - Available

Main Library

S.No.	Library	No. of Books		No. of Journals	
		Volumes	Titles	National	International
1.	EIE division	5,488	2,548	11	08

b) Internet facilities for staff and students - Available

c) Total number of class rooms-(5 Class Rooms + 1 Elective Hall+ 1 seminar Hall )

d) Class rooms with ICT facility- NIL

e) Students' laboratories

- ❖ Analog Electronics Lab

- ❖ Digital Electronics Lab
  - ❖ Measurements and Instrumentation Lab
  - ❖ Computer Centre
  - ❖ Process Control Lab
  - ❖ Embedded Systems Lab
- f) Research laboratories –NDT Lab-BRNS
28. Number of students of the department getting financial assistance from College.– Nil
29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.  
Feed Back Taken form the students
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
  - b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?  
Yes.
  - c. Alumni and employers on the programmes and what is the response of the department to the same?
    1. Through Internship Program, Inplant training and Recruitments
    2. Guest Lectures, Resource Persons in Seminars, Conference and Ect
    3. Participation in Association Activities
31. List the distinguished alumni of the department (maximum 10)

S. No.	Name	Year of Passing	Name of the Company	Designation
1	Mr.MuralidharanSankaralingam	1998	Boston Media Tech, Chennai	CEO
2	Mrs.Angelin Davis	1999	AJ & J Tech Solutions Pvt. Ltd., Bengaluru	Managing Director
3	Mr.GopalakrishnanSethuraj	2001	SVCS Technology SDN BHD, Kualalumpur, Malaysia	Managing Director
4	Mr.BharathSankar	2003	IMI Promoz&Eventz Service Pvt. Ltd., Chennai	Founder
5	Mr.Dheenadhayalan	2003	IGCAR, Kalpakkam	Scientist
6	Mr.B.RameshMoorthi	2003	IGCAR, Kalpakkam	Scientist
7	Mr.Selvakumar	2003	CTO, mCruncher, Malaysia	Founder
8	Mr. K.T. Gandhi Karuna	2005	Watsinit Technologies Pvt. Ltd.”, Chennai	Founder
9	Mr.T.K.M.Senthil Kumar	2007	Trident SQA	Founder
10	Mr.Senthilkumar	2009	iGreen Technologies, Kovilpatti	Founder
11	Mr.Karuppasamy	2006	Indian Police Service, Kerala	ASP

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

S.No.	Name of the Event	Description	Date
1	workshop	EMBEDDED & ARDUINO controller with hands on training	07.03.2015
2	RETINA '15	Recent Trends in Instrumentation Applications	26.02.2015& 27.02.2015
3	Expert lecture	Mr.Andrews Johnson, Project Manager, ABB – Singapore, delivered the titled “Role of Instrumentation Engineers in Industries”	09.01.2015
4	Workshop	Fundamentals of Virtual Instrumentation and LabVIEW” in different spells for students of II year EIE	Jan – Feb 2015
5	Expert Lecture	Mr.VenkateshSelvaraj, DCS Engineer, Shell Oil, Iraq	06.01.2015
6	Motivational Programme	Entrepreneurs Mr.Ramajayam and Mr.R.P.Vasanthan delivered the motivational talk to EIE students	08.10.2014
7	Training Programme	Fundamental of PCB for II Year EIE Students	19.07.2014
8	INTESY' 14	National Level Technical Symposium	18.03.2014
9	Hands on Training	Embedded System Design	03.03.2014 to 08.03.2014
10	JAM	Just A Minute event was conducted for students	07.02.2014
11	Workshop	NI Multisim 11.0 – Simulation software for 2 <sup>nd</sup> & 3 <sup>rd</sup> year students	18.02.2014
12	Workshop	Industrial Automation for the final year EIE students	17.02.2014
13	RINDE' 13	Research Issues on Non Destructive Evaluation	19.09.2013 to 21.09.2013
14	INTESY' 13	National Level Technical Symposium	19.02.2013 20.02.2013
15	JUMP' 13	Mini project competition for II <sup>nd</sup> and III <sup>rd</sup> year EIE students.	20.02.2013
16	Motivation talk	Mr.Karuppasamy, IPS delivered a motivation talk on Civil Service Examination	23.02.2013
17	MOCK IN' 13	Mock Interview was conducted for final year students by our Alumni	12.10.2012
18	C Programming	Session on ‘C’ Language for III Year EIE students was handled by department faculty	29.09.2012
19	Training Program	PLC Programming	24.02.2012

S.No.	Name of the Event	Description	Date
20	INTESY '12	National Level Technical Symposium	28.02.2012 & 29.02.2012
21	JUMP' 12	Mini project competition for II <sup>nd</sup> and III <sup>rd</sup> year EIE students.	28.02.2012
22	AMER '11	DRDO Sponsored Seminar on "Advancements in medical Engineering towards Research "	05.08.2011 To 06.08.2011
23	EIEA (2011-2012)	Inaugural Function	09.08.2011
24	AMER '11	CSIR Sponsored Seminar on "Advancements in medical Engineering towards Research"	17.03.2011 To 19.03.2011
25	INTESY '11	National Level Technical Symposium	04.03. 2011
26	JUMP' 11	Mini project competition for II <sup>nd</sup> and III <sup>rd</sup> year EIE students.	04.03. 2011

33. List the teaching methods adopted by the faculty for different programmes.
1. Power Point Presentation
  2. Over Head Projector (OHP)
  3. Activity Based
  4. Group Discussions
  5. Quiz Program
  6. Referring Internet for Demonstration
  7. Smart Board
34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
1. Five Unit Tests
  2. For Practical Classes Two Model Tests Conducted
  3. Outcome Based Education (OBE) Assessment (Quiz, Slip Test, Assignment, Seminar, etc.)
35. Highlight the participation of students and faculty in extension activities.  
Attending Symposium, Workshops, Seminars and National & International Conferences.
36. Give details of "beyond syllabus scholarly activities" of the department.
- College motivates the students to attend Value added courses.
  - Institution allows the students for inplant-Training, Internship Programs.
  - Course wise Industrial Visit.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details. – NBA

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

**STRENGTH**

- HOD is the Senior faculty member with valuable experience
- 03 Doctorates amongst the department faculties
- Knowledge, Skills and attitude levels of the students are enhanced and assessed through outcome based education.
- Services of Faculty Members with diversified specializations and from Premier Institutions of India are availed
- Separate building for the department and well equipped laboratories.
- Established Non Destructive Testing research laboratory around Eleven Lakhs approximately.

**WEAKNESS**

- Consultancy and interaction with industry is needed

**OPPURTUNITIES**

Placement and Training Cell	Students were placed in core companies and software companies through campus placement
PLASTAN	PLAcement for Students Through Alumni Network
SIG	Special Interest Group
GATE IN	Preparing students for GATE examination
Extra Curricular Activities	Club Activities – ROTARACT, Jr.JC, Fine Arts, YRC, RRC, Quiz,ISTE (Students Chapter), IEEE (Students)
Co Curricular Activities	NSS, NCC

**CHALLENGES**

- Improving placement more in core companies
  - Bringing more Entrepreneurs
  - Deputizing more employees in Civil and Public services
  - Setting up a calibration and testing centre
39. Future plans of the department.
- ❖ Considerable no. of Publications in refereed journals
  - ❖ More Funded projects
  - ❖ Consultancy Works
  - ❖ Patents

## Evaluative Report of the Department

**1. Name of the Department & its year of establishment :**

Information Technology & 2001

**2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

Sl.No	Name of the programmes offered	Remarks (UG/PG.Ph.D)
1.	B.Tech (Information Technology)	UG-Regular
2.	M.E (Communication and Networking)	PG-Regular
3.	Ph.D	Part Time

**3. Interdisciplinary courses and departments involved:**

Sl.No	Inter disciplinary Courses Offered	Name of the departments involved
1.	Principles of Management	Mechanical Engineering

**4. Annual/ semester/choice based credit system :**

Semester Based Credit System

**5. Participation of the department in the courses offered by other departments:**

Sl. No	Courses Offered by other Department	Name of the departments involved
1.	C Programming for Engineers	ECE
2.	C Programming for Engineers	EEE
3.	C Programming for Engineers	CIVIL

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)**

Sl.No	Name of the Teaching Post	Sanctioned	Filled
1.	Professor	2	3
2.	Associate Professor	-	1
3.	Assistant professor	13	13

**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 in the last 4 years
Dr.D.Manimegalai	Ph.D	Professor & head	Image Processing	30.5	8
Dr.V.Seenivasagam	Ph.D	Professor	Image Restoration	26.3	1
Dr.K.G.Srinivasagan	Ph.D	Professor	Image Processing	26.2	1
Dr.S.Sankar Ganesh	Ph.D	Associate Professor (Sr.Gr)	Image Retrieval	17	-
Mr.R.Muthukkumar	M.E	Assistant Professor (Sr.Gr)	Computer Science and Engineering	13	-
Dr.M.Kaliappan	Ph.D	Assistant Professor (Sr.Gr)	Adhoc Networks, Big Data	14.4	-
Mr.S.Chidambaram	M.E	Assistant Professor (Sr.Gr)	Computer Science and Engineering	8.6	-
Mr.S.Rajagopal	M.E	Assistant Professor (Sr.Gr)	Computer and Communication	6.6	-
Mr.V.Jackins	M.E	Assistant Professor	Computer and Communication	5.6	-
Mr.V.Manimaran	M.E	Assistant Professor (Sr.Gr)	Computer Science and Engineering	10	-
Mr.L.JerartJulus	M.E	Assistant Professor	Computer and Communication	5.6	-
Ms.P.Subbulakshmi	M.E	Assistant Professor	Computer Science and Engineering	4.7	-
Mr.S.Vimal	M.E	Assistant Professor	Computer and Communication	8.9	-
Mr.G.Pandiyarajan	M.E	Assistant Professor	Computer and Communication	3.8	-
Ms.V.Anitha	M.E	Assistant Professor	Computer Science and Engineering	2.8	-
Ms.R.Lakshmi Devi	M.E	Assistant Professor	Computer Science and Engineering	2.8	-
Ms.N.Gowthami	M.E	Assistant Professor	Computer Science and Engineering	2.8	-

**8. Percentage of classes taken by temporary faculty – programme-wise information :**

Nil

**9. Programme-wise Student Teacher Ratio**

Sl.No	Name of the Programme	Student Teacher Ratio
1.	B.Tech (InformationTechnology)	13:1
2.	M.E(Communication and Networking)	12:1

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled:**

Staff category	Sanctioned	Filled
<b>Administrative support staff (Technical)</b>		
Technician	2	2
<b>Administrative Staff</b>		
Assistant	1	1
Office Assistant	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
- National recognition
- International recognition

Sl.No	Name of the research facility / Centre	Type of Recognition(State/National/International)
1.	Applied for Research CentreRecognition	

**14. Publications:**

- number of papers published in peer reviewed journals (national /international) :

Sl. No	Name of the Authors	Title of the Paper	Name of the Journal	Page No & Vol	Year of Publications	Impact Factor
1.	Ms.A.Shameem Fathima Dr. D.Manimegalai	Analysis of Significant Factors for Dengue Infection Prognosis Using the Random Forest Classifier	International Journal of Advanced Computer Science and Applications	Vol.6, No. 2, pp 240 – 245	2015	1.32
2.	Mr.G.AravindSwaminathan Dr.D.Manimegalai Mr. S.Murugeswari	Enhancing Energy Efficiency in Visual Sensor Networks through Actor Node	International Journal of Applied Engineering Research	Vol 10, No 2, pp. 2279-2290	2015	-

Sl. No	Name of the Authors	Title of the Paper	Name of the Journal	Page No & Vol	Year of Publications	Impact Factor
3.	Ms.S.Selvi Dr. D.Manimegalai	Task Scheduling using Two-Phase Variable Neighborhood Search Algorithm on Heterogeneous Computing and Grid Environments	Arabian Journal for Science and Engineering	Vol. 40, No.3, pp 817-844	2015	0.367
4.	Ms.K.PradhepaMs.S.KarkuzhaliDr.D.Manimegalai	Segmentation and Localization of Optic Disc using Feature Match and Medial Axis Detection in Retinal Images	Biomedical & Pharmacology Journal	pp 55-61	2015	-
5.	Ms.S.KarkuzhaliDr.D.ManimegalaiDr.D.Santhi	Effective Segmentation of Optic Disc in Retinal Images for Diagnosing Eye Diseases that leads to Blindness	Biomedical & Pharmacology Journal	pp 7-12	2015	-
6.	Mr.J. Ida Christy Dr.V. Seenivasagam	Feed Forward Networks in Color Extended Visual Cryptography to Generate Meaningful Shares	International Journal of Security and Its Applications	Vol.9, No.1	2015	0.273
7.	Mr.M.Mohideen Fatima alias NiramathiDr.V. Seenivasagam	Radial Tracing Method of Cytoplasm Segmentation in Overlapped Cervical Cell Images	IETE Journal of Research	Vol. 61, No. 4	2015	0.185
8.	Ms.S.ArumugadeviDr.V. Seenivasagam	Comparison of Clustering Methods for Segmenting Color Images	Indian Journal of Science and Technology	Vol. 8, No.7,	2015	-
9.	Dr.S.Sankar Ganesh	Hierarchical Vertebral Body Segmentation using cuts and statistical shape modeling	IJTET	Vol. 3, No. 1, pp.129-133	2015	-
10.	R. Muthukkumar Dr. D. ManimegalaiA.SivaSanthiya	Detecting Selfish Attack in Cognitive Radio Networks Using Game-Theoretic Approach	International Journal of Applied Engineering Research	Vol. 10, No.20	2015	-
11.	R. Muthukkumar Dr. D. ManimegalaiV.Sidheswari	Energy Efficient Cooperative Spectrum Sensing using Entropy based detector in Cognitive Radio	International Journal of Applied Engineering Research	Vol. 10, No.20	2015	-
12.	Mr.M.KaliappanDr.B.Paramasivan	Enhancing Secure routing in Mobile	Computers Electrical	Vol.41, pp.301-	2015	0.992

Sl. No	Name of the Authors	Title of the Paper	Name of the Journal	Page No & Vol	Year of Publications	Impact Factor
		Adhoc Networks using a Dynamic Bayesian Signaling model	Engineering	313		
13.	Dr.B.Paramasivan Mr.VijuPrakash Mr.M.Kaliappa n	Development of a Secure Routing Protocol using Game Theory Model in Mobile Adhoc Networks	Journal Communications and Networks	Vol. 17, No. 1, pp.75-83	2015	0.747
14.	Ms.D.MarySugantharath nam Dr.D.Manimegalai	Removal of Poisson Noise in Medical Images using FDCT Integrated with RUDIN-OSHER-FATEMI Model	Biomedical Engineering: Applications , Basics and Communications	Vol. 26, No. 6	2014	-
15.	Ms.C.Prema Dr.D.Manimegalai	Fusion of Color and Modified Weber's Law Descriptor based Human Skin Detection	Journal of Computer Science	Vol. 10, pp 1680-1691	2014	0.269
16.	Ms.D. Santhi Dr.D. Manimegalai Ms.S. Karkuzhali	Diagnosis of diabetic retinopathy by exudates detection using clustering techniques	Biomedical Engineering: Applications , Basics and Communications	Vol. 26, pp 21-28	2014	-
17.	Ms.C.Prema Dr.D.Manimegalai	Adaptive color image Steganography using Intra Color Pixel value differencing	Australian Journal of basic and Applied Science	Vol. 8, pp 161-167	2014	-
18.	Ms.S.Vijaylakshmi, Dr.D.Manimegalai	Text Document Clustering with Flocking Algorithm using Specific Crimes Judgement Corpus	Asian Journal of Information Technology	Vol. 13, pp 21-28	2014	-
19.	Mr.R.Velayutham, Dr.D.Manimegalai, Mr.E.Siva Ganesh	Enhancing the security of AES Algorithm in Wireless Network	Springer India	Chapter 125	2014	-
20.	Ms.D. PushpaRanjini, Dr.D.Manimegalai	Mining ScemanticPaatterns in Cricket Videos Using Fuzzy Based Classification	Asian Journal of Information Technology	Vol. 13, Issue 3, pp 112-118	2014	-
21.	Mr.M. Victor Jose Dr.V. Seenivasagam	Four Factor Secure Authentication and Authorization for Economic Grid	Research Journal of Applied Sciences, Engineering and Technology	Vol. 7, No. 11	2014	0.501

Sl. No	Name of the Authors	Title of the Paper	Name of the Journal	Page No & Vol	Year of Publications	Impact Factor
22.	Mr.M. Victor Jose Dr.V. Seenivasagam	Enhancing Security in Resource Sharing Using Key Holding Mechanism	International Journal of Computer, Information, Systems and Control Engineering	vol. 8, no. 10	2014	-
23.	Mr.R. Velumani Dr.V. Seenivasagam	Study of QR code zero Watermarking systems in Contourlet-SVD and SVD Domains under Noise Attacks	Research Journals of Information Technology	Volume 6: Issue 4	2014	-
24.	Mr.S. Sudhakar Dr.V. Seenivasagam	Wavelet Based Image Compression Using Soft Computing Techniques	Applied Mechanics and Materials	Vol. 573	2014	1.624
25.	Mr.M. Victor Jose Dr.V. Seenivasagam	An Amplified Self-Destructing Data System derived from Active Storage for Grid or Cloud Services	Australian Journal of Basic and Applied Sciences	Vol. 8, No. 18	2014	0.786
26.	Mr.M.Kaliappan, Dr.B.Paramasivan	Secure and Fair Cluster Head Selection Protocol for Enhancing Security in Mobile Ad Hoc Networks	Scientific World Journal	Vol 2014	2014	1.219
27.	Mr.S.RajaGopal, S.Ramalakshmi	Design of On The Fly Encryption Algorithm in Video Compression Standard	International Journal of Communication and Computer Technologies	Vol. 2, Issue 7	2014	3.233
28.	Mr.S.Chidambaram Ms. B.Revathi	Sequential Covering Strategy Based Classification Approach using Ant Colony Optimization	International Journal of Innovative Research in Science Engineering and Technology	Vol3, Issue 3	2014	-
29.	Mr.S.Chidambaram Ms. R.Kalaivani	Additive Gaussian Noise Based data Perturbation in Multi-level trust privacy preserving data mining	International Journal of Data Mining & Knowledge management Process(IJDKP)	Vol.4, No.3	2014	-
30.	Ms.R.Lakshmi Devi Dr.V.Kalaivani	A Review of Feature Selection Techniques for	Journal of Advances in Electronics	Vol 1, Pp 59-70	2014	-

Sl. No	Name of the Authors	Title of the Paper	Name of the Journal	Page No & Vol	Year of Publications	Impact Factor
		Classification of Arrhythmia Disease	and Communication Engineering			
31.	Dr.D.Manimegalai, Dr.A.Jegatheesan	Common key sharing mechanism for mobile adhoc network based on authenticated symmetric key	Pensee Journal	Vol 75, No 11, pp 294-303	2013	0.063
32.	Dr.D.Manimegalai, A.SakthiBharathi SanjeevKubakaddi	Segmentation modeling and 3D Reconstruction of brain tumors – A Review	Jokull Journal	Vol 63, No 9 pp 316-329	2013	1.604
33.	Dr.D.Manimegalai, Dr.S.Gomathi	Keyword search parser using encrypted text in Grid Computing Architecture	International Journal of Advanced Research in Computer Science and Software Engineering	Vol 3, Issue 7, pp 771-777	2013	2.08
34.	Dr.D.ManimegalaiD.Jaya shri	Semantic Similarity Measures on Different Ontologies: Survey and a Proposal of Cross Ontology based Similarity Measure	International Journal of Science and Research	Vol 2 Issue 2, pp 455-461	2013	-
35.	Dr.D.ManimegalaiG.Rajakumar	Design and VLSI Implementation of DIP Based Rod Quality Inspection	International journal of Advanced Research in Computer Engineering and Technology	Vol 2, Issue 3, pp 891-896	2013	2.793
36.	Dr.D.ManimegalaiD.MarysuganthaRathnamB.Ganapathy Ram	Wavelets and Ridgelets for Biomedical Image Denoising	WSEAS Transactions on Systems	Vol 12, Issue 3, pp 165-178	2013	1.3
37.	Dr.D.ManimegalaiT.GuruBaskar	Secured Routing with Authentication in Mobile AD HOC Networks	Journal of computer science , Science Publications	Vol 9, No .3, pp 439-448	2013	1.35

Sl. No	Name of the Authors	Title of the Paper	Name of the Journal	Page No & Vol	Year of Publications	Impact Factor
38.	Dr.D.ManimegalaiG.Rajakumar	VLSI Implementation of DIP Based Edible Oil Adulteration Identification	International Journal of Advanced Research in Computer Science and Software Engineering	Vol 3, Issue 5, pp 771-777	2013	2.08
39.	Ms.R.ChitraDr.V.Seenivasagam	Heart Disease Prediction System Using Supervised Learning Classifier	Bonfring International Journal of Software Engineering and Soft Computing	Vol. 3, No. 1	2013	-
40.	Mr.R. VelumaniDr.V. Seenivasagam	A QR Code Based Zero-Watermarking Scheme for Authentication of Medical Images in Teleradiology Cloud	International journal on Computational and Mathematical Methods in Medicine	Vol. 2013	2013	-
41.	Mr.M. Victor Jose Dr.V. Seenivasagam	An Enhanced O pass With Modified Elliptic Curve Cryptography-Based User Authentication Scheme For Grid Computing	Life Science Journal	Vol. 10 No 3	2013	-
42.	Ms.R.ChitraDr.V.Seenivasagam	Review of heart disease prediction system using data mining and hybrid intelligent techniques	ICTACT Journal on Soft Computing	Volume: 03, Issue: 04	2013	-
43.	Ms.R.ChitraDr.V.Seenivasagam	Heart Attack Prediction System Using Fuzzy C Means Classifier	IOSR Journal of Computer Engineering	Volume 14, Issue 2	2013	-
44.	Ms.A.H. Ragamathunisa Begum, Dr.D.Manimegalai, Dr.A.Abudhahir	Optimum coefficients of discrete orthogonal tchebichef moment transform to improve the performance of image compression	Malaysian journal of computer science	Vol 26 No: 1 PP. 60 – 75	2013	0.167
45.	Mr.R.Muthukkumar, T.Kumar, Dr.N.Shanthi	Review of Mobility Aware Clustering Scheme in Mobile Adhoc Network	International Journal of Computer Applications	Vol: 1, Pp: 19-24,	2013	-
46.	Mr.R.Muthukkumar, T.Kumar, Dr.N.Shanthi	Survey of Mobility Prediction Scheme In Mobile Adhoc	International Journal of Engineering	Pp: 131-137	2013	-

Sl. No	Name of the Authors	Title of the Paper	Name of the Journal	Page No & Vol	Year of Publications	Impact Factor
		Network	Science and Technology			
47.	Mr.S.RajaGopal, M.Shenbagavalli	Partial Video encryption using random permutation based on modification on dct based transformation	International referred journal of engineering and science	Vol. 2, Issue 6	2013	-
48.	Mr.L.JerartJulus S.RimlonShibi Mr.M.Kaliappan	IP Sec provisioning in WIMAX Networks to enhance the security	International Journal of Computer Applications		2012	0.821
49.	Dr.D.ManimegalaiC.Prema	A Novel Skin Tone Detection Using Hybrid Approach by New Color Space	International Journal of Computer Applications	Vol 3 Issue 5 pp 502-508	2012	0.821
50.	Dr.D.ManimegalaiC.Prema	Survey of Skin Tone Detection Using Color Spaces	International Journal of Applied Information Systems	Vol. 2, No. 2, pp18-25	2012	1.187
51.	Dr.D.ManimegalaiN.Suresh	A novel approach in cost estimation based on Algorithmic Model	International journal of Computer Trends and Technology	Vol 3 Issue 5 pp 502-508	2012	0.569
52.	Dr.D.ManimegalaiG.AravindSwaminathan	Energy Efficiency in Visual Sensor Networks: A Survey	European Journal of Scientific Research	Vol 86 No 4 , pp 685-693	2012	0.75
53.	Dr.D.ManimegalaiDr.S.Santhi	An Efficient Approach to Locate Optic Disc Center, Blood Vessels and Macula in Retinal Images	Biomedical Engineering: Applications , basic and communications	Vol 24 No.5, pp 1 – 10	2012	0.23
54.	Dr.D.ManimegalaiA.Jegatheesaan	Symmetric Key Management for Mobile Ad hoc Networks using Novel Secure and Authenticated Key Distribution Protocol	European Journal of Scientific Research	Vol 88, No 3, pp 334-345	2012	0.75
55.	Ms.S.ArumugadeviDr.V. Seenivasagam	A Survey of Image Segmentation Methods using Conventional and Soft Computing Techniques for Color Images	International Journal of Advanced Research in Computer Science and Electronics Engineering	Volume 1, Issue 6	2012	-
56.	Mr.M.KaliappanDr.B.Par	Enhancement of	CIIT	Vol.4,	2012	-

Sl. No	Name of the Authors	Title of the Paper	Name of the Journal	Page No & Vol	Year of Publications	Impact Factor
	amasivan K.MohaideenPitchai M.Bhuvaneshwari	security and congestion adaptiveness in dynamic source routing protocol	International Journal of Networking and Communication Engineering	No.7, Pp 266-370		
57.	Mr.M.Kaliappan R Sujitha P. Subbulakshmi	A Comprehensive Survey On Security Enhancement In Mobile Adhoc Networks Using Game Theory Approaches	International Journal of Computer Applications	-	2012	-
58.	Mr.S.Chidambaram Mr. V.Manimaran Ms. S.Renugadevi	Secure transaction in online banking system using IB-MRSA	International Journal of Engineering Research & Technology	Vol. 2 Issue 1	2012	-
59.	Mr.S.Chidambaram Mr. S.Esakki Raj	A predictive approach for fraud detection using hidden markov model	International Journal of Engineering Research & Technology	Vol. 2 Issue 1	2012	-
60.	Mr.V.JackinsS.Vimal Mr.R.Laxminarayanan Mr.L.JerartJulus	Analysis of Reliable secure transmission for Unobservable Secure Table Driven Protocol.	International Journal of Wireless Communication	Vol 04, No:16 PP:963-966	2012	-
61.	Mr.V.JackinsS.Vimal	The Efficient M-D algorithm - Pattern Discovery in Sequence dataset.	TANTECH - International Journal of Engineering and Technology in Tanzania	Vol 01 Issue:02	2012	-

- **Monographs**
- **Chapter(s) in Books**
- **Editing Books**
- **Books with ISBN numbers with details of publishers**

Sl.No	Name of the Faculty Member	Monographs Authored	Chapters authored in books	Books Edited	Books authored with ISBN
1.	Dr.D.Manimegalai	-	Chapter 125	-	978-81-322-2119-7

- **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare**

Database - International Social Sciences Directory, EBSCO host, etc.)

- Citation Index – range / average
- SNIP
- SJR
- Impact factor – range / average
- h-index

Sl.No	Name of the faculty member	Number listed in International Database	Citation index Total No	h-index
1.	Dr.D.Manimegalai	6507691860	187	6
2.	Dr.V.Seenivasagam	-	75	6
3.	Dr.M.Kaliappan	-	9	2

**15. Details of patents and income generated: Nil**

Sl.No	Name of the faculty member	Patent received	Income generated in Rs.
-	-	-	-

**16. Areas of consultancy and income generated: Nil**

Sl.No	Name of the faculty member	Areas of consultancy carried out	Income generated in Rs.
-	-	-	-

**17. Faculty recharging strategies**

- Conducting and Attending Faculty development
- Programmes/Seminars, Workshops, Summer/Winter short term courses
- Orientation Programmes, Refresher Courses
- Paper presentation in Conferences
- Special lectures/Guest lectures
- Attending E-content workshops, NPTEL online courses

**18. Student projects**

Percentage of students who have done in-house projects including inter-departmental projects

Sl.No	Name of the Programme	% of Students
1.	B.Tech (Information Tecnology)	100%
2.	M.E (Communication and Networking)	100%

Percentage of students doing projects in collaboration with industries / institutes

Sl.No	Name of the Programme	% of Students
1.	B.Tech (Information Tecnology)	4.47%
2.	M.E (Communication and Networking)	-

**19. Awards / recognitions received at the national and international level by**

- Faculty: Nil
- Doctoral / post doctoralfellows:

Sl.No	Name of the Faculty	Award	Year
1.	Dr.S.Sankar Ganesh	Doctoral	2013
2.	Dr.M.Kaliappan	Doctoral	2015

- Students:

Sl. No	Name of the Student	Sponsored By	Award	Year
1.	I. Abubakkar Siddique	CSI	Highest Committed Student Branch Activist Award	2016
2.	S.Gayathri	CSI	Highest Committed Student Branch Activist Award	2016
3.	G.Hema	CSI	Highest Committed Student Branch Activist Award	2016
4.	P.Sangilipandi	CSI	Highest Committed Student Branch Activist Award	2016
5.	M.Shunmugapriyan	CSI	Highest Committed Student Branch Activist Award	2013

**University Ranking:**

Year	Ranking (From the beginning of the Department)			
	UG		PG	
	Name of the Student	Univ. Rank	Name of The Student	Univ. Rank
2011	Shanmugapriya. L	10 <sup>th</sup>	Karkuzhali.S	1 <sup>st</sup>
	RameesFathima. P	16 <sup>th</sup>		
	Ramya. T	21 <sup>st</sup>		
	SuriyaPrakash. K	28 <sup>th</sup>		
	Selvaiaamperumal. E	42 <sup>nd</sup>		

Year	Ranking (From the beginning of the Department)			
	UG		PG	
	Name of the Student	Univ. Rank	Name of The Student	Univ. Rank
2012	Janani. R	5 <sup>th</sup>	Deepika.R	2 <sup>nd</sup>
	Krishna Devi.M	19 <sup>th</sup>		
	Hannah Merlin. S	21 <sup>st</sup>		
	Nanthini.N	23 <sup>rd</sup>		
	Sahana.G	25 <sup>th</sup>		
	Aganya.M	28 <sup>th</sup>		
	Sowmya.A	46 <sup>th</sup>		
2013	X.SahayaJerwin Singh	9 <sup>th</sup>	-	-
	S.Subbulakshmi	24 <sup>th</sup>		
	G.Vaishnavi	28 <sup>th</sup>		
	N.Divya	30 <sup>th</sup>		
	S.SelvaParvathy	35 <sup>th</sup>		
	M.Anniesoundari	37 <sup>th</sup>		
	T. ThangaVinothini	38 <sup>th</sup>		
2014	Bramanayaki S	3 <sup>rd</sup>	-	-
	Smilienrophie A	10 <sup>th</sup>		
	Fathimarizwana M	21 <sup>st</sup>		
	Sri nandhini S	37 <sup>th</sup>		
	Muthumeera A	38 <sup>th</sup>		
	Gayathri G	39 <sup>th</sup>		
	Deepika M	44 <sup>th</sup>		
	Apoorva S	46 <sup>th</sup>		

**20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

Sl. No	Name of the Seminar/Conference/ Workshop with date organized	Sources of funding	Type	Convener/ Coordinator	Details of Participants
<b>2014-2015</b>					
1.	Faculty development training program (FDTP) on "it2401-service oriented architecture"	Anna University	National	Mr.M.Kaliappan Mr.S.Vimal	23
2.	Network Simulator – NS2	NEC	National	Mr.R.Muthukumar Mr.M.Kaliappan	40

Sl. No	Name of the Seminar/Conference/ Workshop with date organized	Sources of funding	Type	Convener/ Coordinator	Details of Participants
3.	Research Approaches and Contemporary Issues of Functional Genomics, Proteomics & Micro array biological Modeling using machine learning in Bioinformatics Applications	DBT	National	Mr.M.Kaliappan Mr.S.Vimal Mr.L.JerartJulus	50
4.	Entrepreneurship Awareness Camp	DST (NIMAT)	National	Mr.M.Kaliappan Mr.S.Vimal Mr.L.JerartJulus Mr.V.Jackins	70
<b>2013-2014</b>					
1.	Programming Practice on Image Processing using MATLAB	NEC	National	Dr.S.Sankar Ganesh Mr.G.Pandiya Rajan	34
2.	Workshop on Network Simulator (NS2)	NEC	National	Mr.R.Muthukumar Mr.M.Kaliappan	88
3.	International Conference on "Explorations and iNnovations in Adanced Computing" (ENIAC' 14)	INST	Internati onal	Dr.D.Manime galai	72
4.	Entrepreneurship Awareness Camp	DST (NSTEB)	National	Mr.M.Kaliappan Mr.S.Vimal Mr.L.JerartJulus Mr.V.Jackins	70
<b>2012-2013</b>					
1.	Research & Pragmatic Issues of Cloud computing Genomic Analysis bioinformatics Applications 14 & 15.03.2013	DBT	National	Dr.D.Manime galai Mr.M.Kalliappan Mr.S.Vimal	79
2.	Conference -ENIAC '12 12.10.2012	NEC	National	Dr.D.Manime galai Mr.M.Kalliappan Mr.V.Manim aran	32

Sl. No	Name of the Seminar/Conference/ Workshop with date organized	Sources of funding	Type	Convener/ Coordinator	Details of Participants
3.	Technical Paper Writing using LATEX 30.11.2012	NEC	National	Dr.D.Manimegalai Mr.S.Rajagopal	36
4.	Image Processing Using MATLAB 19&20.10.2012	NEC	National	Dr.D.Manimegalai Mr.S.Sankar Ganesh Mr.S.Rajagopal	47
<b>2011-2012</b>					
1.	Conference -ENIAC '11 16.09.2011	BRNS	National	Dr.D.Manimegalai Mr.R.Muthukumar	27

### 21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Admitted		Pass percentage	
		Male	Female	Male	Female
B.Tech (Information Technology)	-	37.5%	62.5%	20.28%	66.66%
M.E (Communication and Networking)	-	-	-	25%	75%

### 22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
M.E (Communication and Networking)	50%	50%	-	-

### 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Sl.No	Name of the Competitive Examination	Number of Students Cleared
1.	Civil Services	-
2.	Defense Services	-
3.	GATE	-
4.	Any other competitive examination(CAT/GRE/BEC)	BEC:27

## 24. Student progression

Student progression	Percentage against enrolled			
UG to PG	11.59%			
PG to M.Phil.	-			
PG to Ph.D.	-			
Ph.D. to Post-Doctoral	-			
Employed	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>	<b>2011-12</b>
• Campus selection	26	20	19	38
• Other than campus recruitment	18	23	25	15
Entrepreneurs	-	-	-	1

## 25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	82.36%
from other universities within the State	17.64%
from other universities from other States	-

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Year	Number of Faculty awarded Ph.D
2014-2015	1
2013-2014	1
2013-2012	-
2011-2012	-

## 27. Present details of infrastructural facilities

- Library
- Internet facilities for staff and students
- Total number of class rooms
- Class rooms with ICT facility
- Students' laboratories
- Research laboratories

Sl.No	Name of the Infrastructural Facility	Quantity/Details
1.	Library – Department	769 Books
2.	Internet for staff	All Rooms
3.	Internet for students	Wi-Fi
4.	Number of class rooms	9
5.	Classrooms with ICT facility	1
6.	Students' laboratories	4
7.	Research Labs	1

**28. Number of students of the department getting financial assistance from College: Nil**

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

- Based on the demand of the program in single window counselling.
- Considering the suggestions given by the Stake-holders.
- Discussion with the Management, Director, Principal, Deans and Heads of 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 the feedback?

All faculty members participate in curriculum development and revision every year.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Teaching evaluation is carried out by the students and the scores are given to the respective staff members to improve their performance.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Informal feedback obtained and utilized to improve the content and offer new courses to facilitate placement and opportunities for higher studies.

**31. List the distinguished alumni of the department (maximum 10)**

Sl. No	Name of the distinguished Alumni	Details of Occupation
1.	A.Velayutham	Tata Consultancy Services, USA
2.	G.Aravind	Tata Consultancy Services, USA
3.	S.Parvathavarthini	iGate Global Solutions, Chennai
4.	N.Vinusankar	Senior Business Analyst, Exilant Technologies Pvt.Ltd, Malaysia
5.	K.Hari Prasad	HCL, Chennai
6.	J.Erastus Philips	Infosys, Chennai
7.	A.K. GuhaAnand	Wipro Technologies, Bangalore
8.	K.SuriyaPrakash	Software Engineer, Ford Technologies Services India, Chennai.
9.	S.Venkatesh	Veryx Technologies, Chennai
10.	T.Ramya	Verizon Data services (India Limited). Chennai.

**32. Give details of student enrichment programmes (special lectures /workshops / seminar) with external experts**

Sl.No	Title of the special lecture / workshop / seminar organized	Details of the external expert
1.	Green Computing – Overview, Challenges & Initiatives	<b>Dr. Kai Sang LOCK</b> Adjunct Professor, Singapore University of Technology and Design President, PQR Technologies Pte Ltd Vice-President, ASEAN Academy of Engineering and Technology
2.	Mobility Engineering	<b>Dr. ChandrasekarDharuman</b> Founder & CEO SriSeshaa Technologies Pvt Ltd, Chennai
3.	Cloud Computing	<b>Dr. K.Muneeswaran M.E.,Ph.D.,</b> Sr. Professor & HOD, Department of CSE, MEPCO Schlenk Engineering College, Sivakasi.
4.	Distributed Computing	<b>Dr.N Raja</b> Faculty member School of Technology and Computer Science, Tata Institute of Fundamental Research, Mumbai
5.	Concurrent and Interactive Processes	<b>Dr.N Raja</b> Faculty member School of Technology and Computer Science, Tata Institute of Fundamental Research, Mumbai
6.	Service Oriented Architecture	Dr.S.Swamynathan Anna University Chennai
7.	Biomedical	Er.N.Senthil Kumar Service Manager Najmal Burgan Medical Equipment & Supplies Kuwait
8.	Big Data	Dr.S.P.Shantharajah CSI State Student Co-ordinator Sona College of Technology, Salem
9.	Personal Skill Development	Ms.Vijayalakshmi Founder of VijayaInfotech Pvt., Ltd.,

**33. List the teaching methods adopted by the faculty for different programmes.**

- Black board based teaching
- Presentations and hands-on-sessions in smart class room
- Mini projects in individual subjects
- Full projects in final year/semester
- Guest lectures
- Industrial visits
- In-plant training
- Student's internships

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

- Class committees consisting of students and faculty members teaching the courses are constituted and three meetings are conducted per semester to ensure that the objectives are met.
- Project review committee constituted for each programme and a set of four reviews conducted for the full year projects.
- Continuous assessment with 30% of marks for internals helps to ensure the learning.
- Special classes for weak students.
- The learning outcomes are evaluated through Course end survey and Program Outcomes are measured through Exit Survey

**35. Highlight the participation of students and faculty in extension activities. The extension activities were carried out based on the club activities**

- Red Ribbon Club
- Youth Red Cross Club
- Rotaract Club
- NSS
- NCC
- ISTE Student Chapter
- CSI Student's Branch
- IEI Student's Chapter

**Students:**

- Participation in inter and intra-college symposiums – programming contest, paper presentations, project presentations 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

**36. Give details of “beyond syllabus scholarly activities” of the department.**

Advanced topics in relevant areas are chosen and the resource persons for the various areas like pervasive computing, Grid Computing, Autonomic Computing, Ubiquitous Computing, J2EE, Networking, Image Processing, social Networking, Big data and Hadoop, Cloud Computing and Mobility with Android applications were identified. The topics were covered through

workshops, seminars and Guest lectures to cater to the needs of the students. The department conducts various programmes under the banner of IT association, CSI Student's Forum, FOSS Club, EMC Forum, ISTE chapter and IE chapter for expanding the technical knowledge of the students. Apart from the curriculum laboratory courses to give a fill up to the student's technical knowledge to fulfill the expectations of the companies and industries various courses like

- PHP
- Linux
- My SQL
- Open Source lab
- MATLAB applications
- NS2 simulators
- Android Applications
- ARM & PIC

were conducted and the students gained enough practical knowledge and training to do projects. Apart from that they were asked to submit miniprojects in their pre-final year. The following additional Courses are given to train our students

Sl.No	Name of the Course
1.	CCNA
2.	C & C ++ Programming
3.	Information Storage Management
4.	Free Open Source Software
5.	PHP
6.	My SQL
7.	Advanced java & Internet Programming
8.	Mobility Engineering
9.	Android Applications
10.	GATE Coaching
11.	Placement Training

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Accredited by NBA: 2007 for 3 years (File No: NBA/ACCR-265/2003, Dt.15/6/2007) Accredited by Institution of Engineers (India)

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**Strengths:**

- Very Good result and placement
- University Rank holders
- Qualified, dedicated and co-operative Faculty
- Good support from non-teaching staff
- Organizing Seminars, Workshops, and Conferences by receiving grants from funding agencies.

**Weakness:**

- Lack of adequate industry institute interaction
- Consultancy work to be improved
- Lack of Inter-disciplinary projects
- Quality publications to be increased

**Opportunities:**

- Revision of Curriculum (Whenever needed)
- Student participation in club activities, inter college competitions, etc.,
- Placement in Private sector
- Continuous knowledge updation
- Innovation in teaching learning process

**Challenges**

- Students with diverse background
- Constant changes in technology
- Adapting to changing student expectations

**39. Future plans of the department.**

- To encourage faculty to pursue research in their field of interest
- To encourage faculty to apply for Major/Minor Research Projects to various funding agencies
- To offer consultancy services
- To improve placement
- To collaborate with software companies for student internship and projects.

## Evaluative Report of the Department

1. Name of the Department & its year of establishment:  
**Department of Civil Engineering & 2012**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) -  
U.G.– B.E. Civil Engineering (2012)
3. Interdisciplinary courses and departments involved: Nil
4. Annual/ semester/choice based credit system  
Semester Credit System
5. Participation of the department in the courses offered by other departments  
NIL
6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

	Sanctioned	Filled
Professor	1	1
Associate Professors	2	0
Asst. Professors	9	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 in the last 4 years
1	Dr.C.Puthiyasekar	M.E., Ph.D	Prof. & Head	Structural Engineering	27.6	-
2	Mrs.R.Venkada Lakshmi	M.E	Asst.Prof.	Structural Engineering	4	-
3	Mr.G.Petchiappan @ Balaji	M.E	Asst.Prof.	Structural Engineering	2.6	-
4	Mr.S.Sebastin	M.E	Asst.Prof.	Structural Engineering	3	-
5	Ms.A.Kanimozhi	M.E	Asst.Prof.	Geo tech Engineering	1.7	-
6	Ms.A.LillyJoice	M.E	Asst.Prof.	Environmental Engineering	2	-
7	Ms.P.Kiruthika	M.E	Asst.Prof.	Structural Engineering	8 months	-

S. No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
8	Ms.R.Vigneswari	M.E	Asst.Prof.	Transportation Engineering	2	-
9	Mr.P.S.NaufalRizwan	M.E	Asst.Prof.	Structural Engineering	8 months	-
10	Ms.J.Anupriya	M.Tech.	Asst.Prof.	Environmental Engineering	8 months	-
11	Ms.N.Karpagavalli	M.E	Asst.Prof.	GeotechEngineering	8 months	-
12	Ms.S.Jansi sheela	M.E	Asst.Prof.	Structural Engineering	1	-

8. Percentage of classes taken by temporary faculty -programme-wise information : Nil

9. Programme-wise Student Teacher Ratio

Sl.No.	Name of the programme	Student-Teacher ratio
1.	B.E CivilEngineering	15:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Support staff (technical) : 02

Administrative staff : Nil

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 -FIST; DBT, ICSSR, etc.; total grants received : NIL

13. Research facility/centre with

- Staterecognition
- National
- International recognition

**NIL**

14. Publications: \* number of papers published in peer reviewed journals  
(national / international)

**International Journal**

S. No.	Name of the authors	Title of the paper	Name of journal	Page No. & Volume	Year of publications	Impact factor
1.	C. PuthiyaSekar	Heavy Metal Contamination in Bore Water due to Industrial pollution and polluted and non-polluted sea water intrusion in Tirunelveli and Thoothukudi of South Tamil Nadu, India	Bulletin of Environmental Contamination and Toxicology	85 & 598 -60	2010	1.216
2.	P.S.NaufalRizwan	Feasibility and application of sulfur in concrete structures	International Journal of Engineering Research and Technology	108-111 Vol. 3 - Issue 8 (August - 2014)	2014	1.76
3.	Kiruthika.P	Strengthening of concrete filled steel tubular columns using FRP composites	International Journal of Innovative Research in Science Engineering and Technolgy,	2250-2259 Vol. 4, Issue 4.	2015	0.998
4	Vigneswari.R	Study on Road Accident Data Management System”	International journal of Science, Engineering and Technology Research,	ISSN: 2278 – 7798 Volume 2, Issue 11,	2013	-
5	Vigneswari.R	Critical Evaluation of Traffic behavior at uncontrolled intersection of major road	International Journal of Engineering research	-	2015	-
6	Vigneswari.R	Replacement of Glass and Rubber particles as Aggregates in concrete	International Journal of Engineering research	-	2015	-

**National Journal**

S. No .	Name of the authors	Title of the paper	Name of journal	Page No. & Volume	Year of publications
1.	C. PuthiyaSekar	Impact of Industrial Pollution on the Physicochemical Characteristics of sea water in Thoothukudi Coastal Area	Rasayan journal of Chemistry	2 & 912-919	2009

- \* Monographs - NIL
- \* Chapter(s) in Books - NIL
- \* Editing Books – NIL
- \* Books with ISBN numbers with details of publishers - NIL
- \* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) - NIL
- \* Citation Index – range / average -NIL
- \* SNIP - NIL
- \* SJR - NIL
- \* Impact factor – range / average
- \* h-index - NIL

15. Details of patents and income generated - Nil

16. Areas of consultancy and income generated - Nil

17. Faculty recharging strategies : Faculty are motivated to attend Workshop, Seminar and International Conference  
Details of staff members deputed to attend the programmes during the academic year 2015

S.No	Name	Programmes attended	Venue	Date	Duration
1	Mr.C.PuthiyaSekar	Intellectual Property rights	NEC	07.11.2015	1day
2	Mrs.R.Venkada Lakshmi	Infrastructure Management for developing India	TCE, Madurai	12.09.2015	1day
		Intellectual Property rights	NEC	07.11.2015	1day
3	Mr.G.Petchiappan @ Balaji	NPTEL workshop , “ Mordern Construction Materials” by Prof.RavindraGetttu	IIT, Madras	15.07.2015	1day
		Intellectual Property rights	NEC	07.11.2015	1day
		Formulation of Research and Development grant proposals by Scientists and Technologists “	NEC	18.11.2015 to 20.11.2015	3 days
4	Mr.S.Sebastin	Intellectual Property rights	NEC	07.11.2015	1day
5	Ms.A.Kanimozhi	NPTEL workshop , “Geosynthetics and reinforced soil structures “	IIT, Madras	15.07.2015	1day

S.No	Name	Programmes attended	Venue	Date	Duration
		Intellectual Property rights	NEC	07.11.2015	1 day
6	Ms.A.LillyJoice	Intellectual Property rights	NEC	07.11.2015	1 day
		Environmental Studies	IIT , Bombay	02.06.2015 to 12.06.2015	10 days
7	Ms.R.Vigneswari	Formulation of Research and Development grant proposals by Scientists and Technologists “	NEC	18.11.2015 to 20.11.2015	3 days
8.	Mr.P.S.NaufalRizwan	Formulation of Research and Development grant proposals by Scientists and Technologists “	NEC	18.11.2015 to 20.11.2015	3 days
9	Ms.N.Karpagavalli	Formulation of Research and Development grant proposals by Scientists and Technologists “	NEC	18.11.2015 to 20.11.2015	3 days
10.	Ms.J.AnuPriya	Formulation of Research and Development grant proposals by Scientists and Technologists “	NEC	18.11.2015 to 20.11.2015	3 days

18. Student projects –Nil

19. Awards / recognitions received at the national and international level by

- Faculty– Nil
- Doctoral/ Post doctoral fellow– Nil
- Students

S. No.	Name of the Student	Award / Prize	Venue
1	L.Mahalakshmi (2012 – 2016 Batch)	First Prize in Model & Quiz	PeriyarManiammai College, Thanjavur.
2	S.Vinithajerome (2012 – 2016 Batch)	First Prize in Modelling ( Treasure )	Ramco Engineering and Technology, Rajapalayam.
3	S.Vinitha419jerome (2012 – 2016 Batch)	Second Prize in Paper presentation ( Bridge Construction)	Ramco Engineering and Technology, Rajapalayam.
4	A.Kaucikka (2013 – 2017 Batch)	Second Prize in Paper presentation	KalasalingamEngg. College, Krishnankoil.
5	V.R.Kavya (2013 – 2017 Batch)	Second Prize in Paper presentation	KalasalingamEngg. College, Krishnankoil.
6	M.Renuka (2013 – 2017 Batch)	First Prize in Technical Short film	SRM university, Chennai.
7	G.Kirubakaran (2013 – 2017 Batch)	First Prize in Technical Short film	SRM university, Chennai.

8	S.Tharunkumar (2013 – 2017 Batch)	First Prize in Technical Short film	SRM university, Chennai.
9	M.Renuka (2013 – 2017 Batch)	Second Prize in Auto CADD	SRM university, Chennai.
10	S.Suganya (2013 – 2017 Batch)	First Prize in Paper presentation	Ramco Engineering and Technology, Rajapalayam.
11	G.SugirthaMurugalakshmi (2013 – 2017 Batch)	First Prize in Paper presentation	Ramco Engineering and Technology, Rajapalayam.
12	ReskallaMohaideen (2013 – 2017 Batch)	Second Prize in Auto CADD	Ramco Engineering and Technology, Rajapalayam.
13	M.Renuka (2013 – 2017 Batch)	First Prize in Poster presentation	Ramco Engineering and Technology, Rajapalayam.
14	M.Kannan (2013 – 2017 Batch)	First Prize in Poster presentation	Ramco Engineering and Technology, Rajapalayam.
15	M.Kannan (2013 – 2017 Batch)	First Prize in Quiz	KalasalingamEngg. College, Krishnankoil.
16	E.Arun Raja (2013 – 2017 Batch)	First Prize in Quiz	KalasalingamEngg. College, Krishnankoil.
17	S.A.ThalavaiRagavan (2013 – 2017 Batch)	Third Prize in Model Making	KalasalingamEngg. College, Krishnankoil.

20. Seminars/ Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.

- NIL

21. Student profile course-wise - NIL

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.E.(CIVIL)	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
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	-
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	-
• Other than campus recruitment	
Entrepreneurs	-

25. Diversity of staff

<b>Percentage of faculty who are graduates</b>	
of the same parent university	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. **Ph.D – 1**

1. Dr.C.PuthiyaSekar, Prof. & Head

27. Present details about infrastructural facilities

a) Library - Available

Main Library

S.No.	Library	No. of Books		No. of Journals	
		Volumes	Titles	National	International
1.	CIVIL division	1587	670	07	06

b) Internet facilities for staff and students - Available

c) Total number of class rooms–(3Class Rooms + 2 Elective Hall+ 1 seminar Hall + 1 Smart class room)

d) Class rooms with ICT facility- NIL

e) Students' laboratories

❖ Concrete and Highway Engineering Lab

❖ Environmental Engineering Lab

❖ Survey Lab

❖ Soil Mechanics Lab

f) Research laboratories –NIL

28. Number of students of the department getting financial assistance from College. – NIL

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Feed Back Taken form the students

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

b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Yes.

c. Alumni and employers on the programmes and what is the response

of the department to the same?

1. Through Internship Program, Inplant training and Recruitments
2. Guest Lectures, Resource Persons in Seminars, Conference and Ect
3. Participation in Association Activities

31. List the distinguished alumni of the department (maximum 10) - NIL
32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts. - NIL
33. List the teaching methods adopted by the faculty for different programmes.
  1. Power Point Presentation
  2. Activity Based
  3. Group Discussions
  4. Quiz Program
  5. Referring Internet for Demonstration
  6. Smart Board
34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
  1. Five Unit Tests
  2. For Practical Classes Two Model Tests Conducted
  3. Outcome Based Education (OBE) Assessment (Quiz, Assignment, Seminar, etc.)
35. Highlight the participation of students and faculty in extension activities. Attending Symposium, Workshops, Seminars and National & International Conferences.
36. Give details of “beyond syllabus scholarly activities” of the department.
  - College motivates the students to attend Value added courses.
  - Institution allows the students for inplant-Training, Internship Programs.
  - Course wise Industrial Visit.
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

**STRENGTHH**

- HOD is the Senior faculty member with valuable experience
- Knowledge, Skills and attitude levels of the students are enhanced and assessed through outcome based education.

- Services of Faculty Members with diversified specializations and from Premier Institutions of India are availed
- Separate building for the department and well equipped laboratories.
- WiFi enabled internet facility is available in department.

### **WEAKNESS**

- Consultancy and interaction with industry is needed

### **OPPURTUNITIES**

Placement and Training Cell	Students were placed in core companies and software companies through campus placement
SIG	Special Interest Group
GATE IN	Preparing students for GATE examination
Extra Curricular Activities	Club Activities – ROTARACT, Jr.JC, Fine Arts, YRC, RRC, Quiz,ISTE (Students Chapter), IEEE (Students)
Co Curricular Activities	NSS, NCC

### **CHALLENGES**

- Improving placement more in core companies
- Bringing more Entrepreneurs
- Deputizing more employees in Civil and Public services
- Setting up a calibration and testing centre

39. Future plans of the department.

- ❖ Considerable no. of Publications in refereed journals
- ❖ More Funded projects
- ❖ Consultancy Works

## Evaluative Report of the Department

1. Name of the Department & its year of establishment –  
**Science and Humanities & 1984**
2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D.,  
Integrated Masters; Integrated Ph.D., etc.) - U.G, Ph.D

Sl.No.	Name of the Programme offered	Remarks (UG/PG/ M.Phil/Ph.D.)
1	Mechanical Engineering Electronics and communication Engineering Computer science Engineering Electrical and Electronics Engineering Electronics and Instrumentation Engineering Civil Engineering Information Technology	UG
2	Chemistry	Ph.D

3. Interdisciplinary courses and departments involved – Regulations - 2011

Sl. No.	Interdisciplinary courses offered	Names of the Departments involved
<b>I – Semester</b>		
1	i) Fundamentals of Computing and Programming ii) Engineering Graphics iii) Computer Practice Laboratory – I iv) Engineering Practices Laboratory	Common to all B.E/ B.Tech Degree Courses
<b>II – Semester</b>		
	Computer Practice Laboratory – II	Common to all B.E/B.Tech Degree Courses
	i) Engineering Mechanics ii) Basic Electrical & Electronics Engineering iii) Computer Aided Drafting and Modeling Laboratory	MECH, CIVIL
	i) Circuit Theory ii) Electrical Circuits Laboratory	EEE & EIE

	i) Electric Circuits and Electron Devices ii) Circuits and Devices Laboratory	CSE, IT & ECE
	Basic Civil & Mechanical Engineering	CSE, IT, EEE, EIE & ECE

**Regulations - 2013**

<b>Sl.No.</b>	<b>Interdisciplinary courses offered</b>	<b>Names of the Departments involved</b>
<b>I – Semester</b>		
1	i) Fundamentals of Computing and programming in C ii) Engineering Graphics iii) C Programming Laboratory iv) Engineering Practices Laboratory	Common to all B.E/B.Tech Degree Courses
<b>II – Semester</b>		
2	i) Engineering Mechanics ii) Basic Electrical & Electronics Engineering iii) Computer Aided Drafting and Modeling Laboratory	MECH, CIVIL
3	i) Circuit Theory and Electron Devices ii) Circuits and Devices Laboratory	ECE
4	i) Electric Circuits and Electron Devices ii) Electronic Devices and Circuits Laboratory	CSE, IT
5	Circuit Theory	EEE
6	Electric Circuits	EIE
7	Electric Circuits Laboratory	EEE, EIE
8	Basic Civil & Mechanical Engineering	ECE, CSE, EEE, EIE & IT
9	Computer Programming Laboratory	Common to all B.E/B.Tech Degree Courses

**Regulations – 2015**

<b>Sl.No.</b>	<b>Interdisciplinary courses offered</b>	<b>Names of the Departments involved</b>
<b>I – Semester</b>		
1	i) Introduction to Engineering ii) Engineering Graphics iii) Engineering Practice Laboratory	Common to all B.E/B.Tech Degree Courses
<b>II – Semester</b>		
2	i) C Programming for Engineers ii) C Programming Laboratory	Common to all B.E/B.Tech Degree Courses
3	i) Mechanics of Rigid Body ii) Introduction to Mechanical Engineering and Design	MECH
4	i) Circuit Analysis ii) Circuits and Devices Laboratory	ECE
5	i) Problem Solving Techniques ii) Applied Numerical Analysis Laboratory	CSE
6	i) Circuit Theory ii) Electric Circuits Laboratory	EEE
7	i) Electric Circuits Analysis ii) Electric Circuit Analysis Laboratory	EIE
8	i) Digital Systems ii) Digital Laboratory	IT
9	i) Engineering Mechanics ii) Computer Aided Building drawing Laboratory	CIVIL

4. Annual/ semester/choice based credit system:

- Regulations – 2011 Semester system
- Regulations – 2011 Semester system
- Regulations – 2015 Semester system (Choice Based Credit System)

5. Participation of the department in the courses offered by other departments  
– Regulations – 2011

Sl. No.	Name of the courses handled for other departments	Name of the other department
<b>Mathematics for all UG Courses</b>		
<b>III Semester</b>		
1	Transforms and Partial Differential Equations	Common to all B.E/B.Tech Degree
<b>IV Semester</b>		
2	Statistics and Numerical Methods	MECH
3	Probability and Random Processes	ECE
4	Probability and Queuing Theory	CSE, IT
5	Numerical Methods	EEE,CIVIL
<b>V Semester</b>		
6	Discrete Mathematics	CSE
<b>Mathematics for all PG Courses</b>		
<b>I Semester</b>		
7	Applied Mathematics for Communication Engineers	Communication Systems, Computer and Communication
8	Applied Mathematics for Electrical Engineers	High Voltage Engineering, Control and Instrumentation Engineering and Embedded System Technologies
9	Numerical Methods and Graph Theory	Production Engineering
<b>II Semester</b>		
10	Mathematical Foundations of Computer Science	MCA
<b>English for all UG Courses</b>		
<b>III Semester</b>		
11	Communication Skills and Technical Seminar- I	Common to all B.E/B.Tech Degree Courses

<b>IV Semester</b>		
12	Communication Skills and Technical Seminar- II	Common to all B.E/B.Tech Degree Courses
<b>Humanities for all UG &amp; PG Courses</b>		
<b>VII Semester</b>		
13	Engineering Economics and Financial Accounting	CSE
14	Marketing Management	MECH
15	Total Quality Management	MECH, IT
<b>VIII Semester</b>		
16	Principles of Management	ECE, CSE, MECH, CIVIL, EIE
17	Operations Management	MECH
18	Resource Management	MCA

**Regulations – 2013**

<b>Sl.No.</b>	<b>Name of the courses handled for other departments</b>	<b>Name of the other department</b>
<b>Mathematics for all UG Courses</b>		
<b>III Semester</b>		
1	Fourier Transforms and Complex Analysis	MECH, ECE, EEE, CIVIL, IT
2	Complex Analysis and Numerical Methods	CSE
3	Transforms and Complex Analysis	EIE
<b>IV Semester</b>		
4	Probability, Statistics and Numerical Methods	MECH, CIVIL
5	Probability and Random Processes	ECE
6	Probability and Queuing Theory	CSE, IT
7	Numerical Methods, Mathematical logic, Probability and Statistics	EEE
8	Numerical Methods and Probability	EIE
<b>V Semester</b>		
9	Discrete Mathematics	CSE

<b>Mathematics for all PG Courses</b>		
<b>I Semester</b>		
10	Applied Mathematics for Communication Engineers	Communication and Networking
11	Applied Mathematics for Electrical Engineers	High Voltage Engineering, Control and Instrumentation
12	Discrete Structures and Formal Languages	Computer Science and
13	Numerical Methods and Graph Theory	Manufacturing
14	Mathematical Foundations of Computer Science	MCA
<b>English for all UG &amp; PG Courses</b>		
<b>III Semester</b>		
15	Communication Skills and Technical Seminar	MECH, CSE, CIVIL.
<b>IV Semester</b>		
16	Communication Skills and Technical Seminar	ECE, EEE, EIE, IT
<b>II Semester</b>		
17	Communication Skills Laboratory	MCA
<b>Humanities for all UG &amp; PG Courses</b>		
<b>VI Semester</b>		
18	Principles of Management	CSE
<b>III Semester</b>		
19	Resource Management Techniques	MCA

**Regulations – 2015**

<b>Sl.No.</b>	<b>Name of the courses handled for other departments</b>	<b>Name of the other department</b>
<b>Mathematics for all PG Courses</b>		
<b>I Semester</b>		
1	Higher Engineering Mathematics	For High Voltage Engineering & Control and Instrumentation
2	Applied Mathematics for Communication Engineers	For Communication Systems

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

	Sanctioned	Filled
Professor		2
Associate Professors		4
Asst. Professors (SG)		4
Asst. Professors		30

7. Faculty profile with name, qualification, designation, specialisation (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
<b>CHEMISTRY</b>					
Dr.M.A.Neelakantan	M.Sc.,M.Phil., B.Ed.,Ph.D.,	Professor / HOD	Inorganic Chemistry	31 Y 6 M	6
Dr.S.S. Mariappan	M.Sc.,M.Phil., MCA.,Ph.D.,	Asso. Prof(SG)	Inorganic Chemistry	29Y 5M	
Ms.V. Latha	M.Sc.,M.Phil., B.Ed.,	Asso.Prof	Inorganic Chemistry	15Y 4M	
Dr.S. Thalamuthu	M.Sc.,M.Phil., Ph.D.,	Asst.Prof	Inorganic Chemistry	5Y 8M	
Mr.V.Saravanapperumal	M.Sc.,M.Phil., B.Ed.,	Asst.Prof	Chemistry	5Y 3M	
Mr.R.Sankardoss	M.Sc.,M.Phil.,	Asst.Prof	Chemistry	4Y 7M	
Mr.S. Chithirai kumar	M.Sc.,M.Phil.,	Asst.Prof	Chemistry	7Y 5M	
Mr.J.Thamba	M.Sc.,M.Phil.,	Asst.Prof	Chemistry	2Y 6 M	
<b>ENGLISH</b>					
Mrs.S.D.Selvasundari	M.A.,M.Phil.,	Asst. Prof	English	4Y 5M	
Mrs.S.Gajalakshmi	M.A., M.Phil.,	Asst. Prof	English	4Y 6M	
Ms.P.Annalakshmi	M.A., M.Phil.,	Asst. Prof	English	4Y 6M	
Mr.S.Pradeep Kumar	M.A., M.Phil., B.Ed.,	Asst. Prof	English	2Y 6M	
Ms.S.Ananthalakshmi	M.A., M.Phil.,	Asst. Prof	English	7M	
Ms.T.Rathimunisri	M.A., M.Phil.,	Asst. Prof	English	4M	
Mr.P. Abukaniba Meeran	M.A., M.Phil., PGCTE	Asst. Prof	English	9 Y 1M	
Ms.M.Sundara Kamalam	M.Sc.,	Softs Skill Trainer	Computer Science	5 Y	
<b>MATHS</b>					
Mr.S. Rammurthy	M.Sc., M.Phil.,	Professor	Mathematics	31Y 1M	
Dr.M.A. Perumal	M.Sc.,M.Phil., B.Ed., Ph.D.,	Asso.Prof (SG)	Mathematics	31Y 1M	
Ms.S. Geetha	M.Sc., M.Phil.,B.Ed	Asst. Prof (SG)	Mathematics	15Y 5M	
Ms.V. Ramalakshmi	M.Sc., M.Phil.,PGDCA	Asst. Prof (SG)	Mathematics	14Y 10M	
Mr.S.K. Sriramkalyan	M.Sc., M.Phil.,PGDCA	Asst. Prof (SG)	Mathematics	15Y 6M	
Mr.R. Antonyamy	M.Sc., M.Phil.,	Asst. Prof (SG)	Mathematics	13Y 6M	

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
Mr.G. Vijayan	M.Sc., M.Phil.,	Asst. Prof	Mathematics	6Y 6M	
Ms.S. Rajeswari	M.Sc., M.Phil.,	Asst. Prof	Mathematics	6Y 4M	
Ms.S. Sasireka	M.Sc., M.Phil.,	Asst. Prof	Mathematics	9Y 6M	
Ms.M. Annapoopathi	M.Sc., M.Phil.,	Asst. Prof	Mathematics	7Y 9M	
Mr.M. Arul	M.Sc., M.Phil.,B.Ed	Asst. Prof	Mathematics	6Y 2M	
Mr.M. Manivannan	M.Sc., M.Phil.,	Asst. Prof	Mathematics	5Y 5M	
Ms.S.P.Kamniga Devi	M.Sc., M.Phil., B.Ed	Asst. Prof	Mathematics	2Y 5M	
Ms.M.Anitha	M.Sc., M.Phil.,	Asst. Prof	Mathematics	1M	
Mr.J.George Barnabas	M.Sc., M.Phil.,	Asst. Prof	Mathematics	1M	
Ms.S.Divya	M.Sc., M.Phil.,	Asst. Prof	Mathematics	1M	
<b>PHYSICS</b>					
Ms.P. Gomathy	M.Sc., M.Phil., PGDCA	Asst. Prof	Physics	15Y 7M	
Ms.S. Bagavathi	M.Sc., M.Phil.,	Asst. Prof	Physics	11Y	
Mr.J.Ashok kumar	M.Sc.,M.Phil., B.Ed.,	Asst. Prof	Materials Science	10Y 8M	
Ms.M. Suriyakala	M.Sc., M.Phil.,	Asst. Prof	Physics	3Y 6M	
Dr. R. Anitha	M.Sc., M.Phil.,	Asst. Prof	Physics	4Y 5M	
Mr.J.Jegan	M.Sc., M.Phil., B.Ed.,	Asst. Prof	Physics	1M	
<b>HUMANITIES</b>					
Dr.R.Sundararaj	M.Com.,M.Phil, P.G.D.P.M.,Ph.D,	Asso.Prof	Rural Banking	25Y 6M	
Dr.T.Sakthi	M.Com.,Ph.D,	Asst. Prof	Marketing	4Y 6M	

8. Percentage of classes taken by temporary faculty – programme-wise information

Sl. No.	Name of the Programme	% of classes taken by temporary Faculty members
1	UG Programme	Not Applicable
2	PG Programme	Not Applicable

9. Programme-wise Student Teacher Ratio: 16.5: 1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

Sl. No.	Designation	Sanctioned	Filled
Administrative Staff			
1	Department Assistant		1
Academic Support Staff(Technical )			
1	English Lab Technician		1
2	Lab. Assistant		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.

Sl.No.	Name	Title of the Project	Funding Agency	Duration and Amount
1	Dr.M.A.Neelakantan	Molecular design, Chemical synthesis and biological evolution of Zinc and Vanadium complexes	CSIR (National)	May 2013-2016 On going Rs.11,45,000
2	Dr.M.A.Neelakantan	Syntheses of novel bifunctional chelating agents and biomolecule - BPCA conjugates for complexation with copper, rhenium, gallium, technetium and lutetium radionuclide's for possible applications in radiopharmaceutical applications	BRNS(DAE) (National)	JUN -2014 On going Rs.24,24,500
3	Dr.M.A.Neelakantan	Synthesis, Structural Characterization, Stability and Chemical nuclease activity of some Cu(II) and Zn(II) complexes containing imidazole and pyridine moiety with multiple ligation	DST (National)	AUG – 2015 On going Rs.44,25,000
4	Dr.M.A.Neelakantan	Spacial Distribution of Uranium and Associated water Quality parameters in five Districts of Tamil Nadu (Viruthunagar, Ramanathapuram, Thoothukudi, Tirunelveli and Kanyakumari)	BRNS(DAE) (National)	AUG – 2015 On going Rs.25,24,650

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

Sl.No.	Name	Title of the Project	Funding Agency	Duration and Amount
1	Dr.M.A.Neelakantan	Synthesis, Characterization and Stability of Bifunctional Chelate Ga(III), Cu(II) and Zn (II) complexes	Board of Research in Nuclear Sciences (BRNS) (National)	March 2007 – March 2010 (3years) (completed) Rs. 28, 18,550/=

2	Dr.M.A.Neelakantan	Cu(II) and Zn(II) Complexes of Imidazole and Amino acid Donors: Synthesis, Characterization, Stability and Biological Activities	Department of Science and Technology (DST) New Delhi (National)	Nov 2010 – Nov 2013 (3years) (completed) Rs. 29,00,000/=
Total grant Received				Rs.1,62,37,700/-

13. Research facility /centre with

- State recognition - Yes
- National recognition - Yes
- International recognition - No

14. Publications:

\* Publications:(Chemistry)

a) Number of papers published in peer reviewed journals (national / international)

\* **International – 36**

**National- 21**

**List of International Journals:**

S. No.	Authors	Title of the Paper	Name of the Journal	Page No. & Vol.	Year of Publication	Impact Factor
1	M.A. Neelakantan S.Chithiraikumar	Experimental and theoretical investigation of a pyridine containing Schiff base: Hirshfeld analysis of crystal structure, interaction with biomolecules and cytotoxicity	Journal of Molecular Structure,	1108, 654-666	2016	1.602
2	M.A. Neelakantan B.Annaraj, L. Mitu,	Synthesis and crystal structure of imidazole containing amide as a turn on fluorescent probe for nickel ion in aqueous media. An experimental and theoretical investigation	Journal of Molecular Structure,	1104, 1-6	2016	1.602
3	M.A.Neelakantan L.Subha,C.Balakrishnan, SatheeshNatarajan, M.Theetharappan,Balane hru Subramanian,	Water soluble and efficient amino acid Schiff base receptor for reversible fluorescence turn-on detection of Zn <sup>2+</sup> ions: Quantum chemical calculations and detection of bacteria	Spectrochim. Acta Part A	153, 249-256	2016	2.098

S. No.	Authors	Title of the Paper	Name of the Journal	Page No. & Vol.	Year of Publication	Impact Factor
4	M.A.Neelakantan C.Balakrishnan, M.Theetharappan, SatheeshNatarajan, S.Thalamuthu,	Fluorescence response of a thiazolidine carboxylic acid derivative for the selective and nanomolar detection of Zn(II) ions: quantum chemical calculations and application in real samples	RSC Advances	5, 105453 - 105463	2015,	3.84
5	M.A.Neelakantan Balakrishnan, L.Subha, S.S. Mariappan	Synthesis, spectroscopy, X-ray crystallography, DFT calculations, DNA binding and molecular docking of a propargyl arms containing Schiff base	Spectrochim. Acta Part A,	150 pp. 161–171	2015	2.098
6	M.A.Neelakantan B. Annaraj	Synthesis, crystal structure and biological exploration of water soluble Cu(II) complexes of vitamin B6 derivative	European Journal of Medicinal Chemistry,	102 & 1-8.	2015	3.447
7	M.A.Neelakantan V.Latha, C.Balakrishnan	Synthesis, crystal structure and DFT studies of a dual fluorescent ketamine: Structural changes in the ground and excited states	Journal of Molecular Structure,	1092 & 63-71.	2015	1.602
8	M.A.Neelakantan L.Subha, C.Balakrishnan S.Thalamuthu	Mixed ligand cu(II) complexes containing o-vanillin-L-tryptophan Schiff base and heterocyclic nitrogen bases: Synthesis, structural characterization and biological properties	Journal of coordination chemistry	68 & 1021-1039	2015	2.2
9	M.A.Neelakantan B. Annaraj	Water-soluble pyridine based colorimetric chemosensor for naked eye detection of silver ion: Design, Synthesis, Spectral and theoretical	Analytical methods	6 & 9610-9615	2014	1.938

S. No.	Authors	Title of the Paper	Name of the Journal	Page No. & Vol.	Year of Publication	Impact Factor
		investigation				
10	M.A.Neelakantan V.Latha, B.Annaraj	ESIPT inspired dual fluorescent probe (Z)-3-((4-(4-aminobenzyl)phenyl) amino)-1,3-diphenylprop-2-en-1-one: Experimental and DFT based approach to photophysical properties	Spectrochimica Acta Part A	133 & 45-53.	2014	2.129
11	M.A. Neelakantan A. W. Jeevadason K. K.Murugavel	Review on Schiff bases and their metal complexes as organic photovoltaic materials	Renewable and Sustainable Energy Reviews	36 & 220-227	2014	5.63
12	M.A. Neelakantan, V. Selvarani, T. Srinivasan D. Velmurugan	1-[2-Hydroxy-4-(prop-2-yn-1-yloxy)-phenyl]ethanone	Acta Cryst. Section E	E70 & 024	2014	0.347
13	M.A. Neelakantan B. Annaraj, Sudip Pan P.K. Chattaraj	DFT study on the ground state and excited state intramolecular proton transfer of propargyl arm containing Schiff bases in solution and gas phases,	Computational and Theoretical Chemistry	1028 & 19-26.	2014	1.30
14	M.A. Neelakantan S. Thalamuthu, B. Annaraj	A systematic investigation on biological activities of a novel double zwitterionic Schiff base Cu(II) complex.	Spectrochimica Acta Part A	118 & 120-129	2014	2.129
15	M.A. Neelakantan P. J. Kanaga Inba, B. Annaraj S. Thalamuthu	Cu(II), Ni(II) and Zn(II) complexes of salan type ligand containing ester groups: Synthesis, characterization, electrochemical properties and invitro biological activities	Bioionorganic Chemistry Applied	-	2013	1.167
16	M.A. Neelakantan S.Thalamuthu,B. Annaraj, S. Vasudevan S. Sengupta	DNA binding, nuclease and colon cancer cell inhibitory activity of Cu(II) complex of a thiazolidine-4-carboxylic acid derivative	Journal of Coordination Chemistry	66 & 1805-1820	2013	1.801

S. No.	Authors	Title of the Paper	Name of the Journal	Page No. & Vol.	Year of Publication	Impact Factor
17	M.A. Neelakantan V. Selvarani, B. Annaraj S.S.Moorthy, D. Velmurugan	Synthesis, characterization and crystal structures of copper(II) and nickel(II) complexes of propargyl arm containing N2O2 ligands: Antimicrobial activity and DNA binding	Polyhedron	54 & 74-83	2013	1.946
18	M.A. Neelakantan P.J.KanagaInba, B. Annaraj, S. Thalamuthu	Salen, reduced Salen and N-alkylated Salen type compounds: Spectral characterization, theoretical investigation and biological studies	Spectrochimica Acta Part A	104 & 300-309	2013	2.129
19	M.A. Neelakantan V.Selvarani, V. Silambarasan D. Velmurugan	2-Hydroxy-4-(prop-2-ynyloxy)benzaldehyde	Acta Cry. Section E	E69 & o64	2013	0.347
20	V.Selvarani, B.Annaraj, M.A. Neelakantan*, S. Sundaramoorthy, D. Velmurugan	Synthesis, characterization and crystal structures of copper(II) and nickel(II) complexes of propargyl arm containing N2O2 ligands: Antimicrobial activity and DNA binding	Polyhedron	74-83 & 5	2013	2.057
21	M. Esakkiammal, V. Selvarani, M.A. Neelakantan, V. Silambarasan and D. Velmurugan	2,4-Bis[(prop-2-ynyl)oxy]benzaldehyde	Acta Cryst.	o2465 & E68	2012	-
22	F. Rusal Raj, <b>M.A. Neelakantan</b>	Synthesis, Spectral, Electrochemical and Biological studies of VO(II) Schiff base complexes	World Academy of Science and Engineering Technology,	1244-1248 & 64	<b>2012</b>	-
23	<b>M.A. Neelakantan,</b> V.Selvarani, B.Annaraj, S.Sundaramoorthy, D. Velmurugan	Synthesis and crystal structure of hydroxyacetophenone Schiff bases containing propargyl moiety: Solvent effects on UV-visible spectra	Spectrochimica Acta Part A	329-337 & 91	2012	2.098

S. No.	Authors	Title of the Paper	Name of the Journal	Page No. & Vol.	Year of Publication	Impact Factor
24	<b>M.A. Neelakantan,</b> M.Sundaram, M.S. Nair	Solution Equilibria of Ni (II), Cu (II) and Zn (II) Complexes Involving Pyridoxine and Imidazole Containing ligands: pH metric, Spectral, Electrochemical, and Biological Studies	Journal of Chemical Engineering Data	2527–2535&56	2011	1.693
25	<b>M.A. Neelakantan,</b> M.Sundaram, M.S. Nair	Synthesis, Spectral and thermal studies of some transition metal mixed ligand complexes: Modeling of equilibrium composition and biological activity	Spectrochim. Acta Part A	1693-1703&79	2011	2.098
26	<b>M.A. Neelakantan,</b> A.C.Chamayou, C.Janiak, S.Thalamuthu	The first vitamin B <sub>6</sub> zinc complex, pyridoxinato-zinc acetate: A 1D coordination polymer with polar packing through strong interchain hydrogen bonding.	Inorg. Chim. Acta	447-450 & 365	2011	1.846
27	<b>M.A. Neelakantan,</b> C. Puthiyasekar and S. Poongothai	Heavy Metal Contamination in Bore Water due to Industrial Pollution and Polluted and Non Polluted Sea Water Intrusion in Thoothukudi and Tirunelveli of South Tamil Nadu, India	<u>Bulletin of Environmental Contamination and Toxicology</u>	598 – 601 & 85	2010	1.018
28	<b>M.A. Neelakantan,</b> B.M.Draskovic, G.A.Bogdanovic, A.C.Chamayou, Y.S.Avaghut,J.S.Gunne, SharmilaBanerjee, C. Janiak	N-o-Vanillidene-L-histidine: Experimental charge density analysis of a double zwitterionic amino acid Schiff-base compound	Crystal Growth & Design,	1665-1667&10	2010	4.720
29	<b>M.A. Neelakantan,</b> M.Sundaram, S.Thalamuthu, M.S.Nair,	Synthesis, Characterization, Thermal and redox behavior and biological activity of Ni(II), Cu(II) and Zn(II) complexes containing Pyridoxine and Imidazole moieties	J. Coord. Chem	1969 – 1985&.63	2010	1.547

S. No.	Authors	Title of the Paper	Name of the Journal	Page No. & Vol.	Year of Publication	Impact Factor
30	M.A.Neelakantan, S.S.Mariappan, J. Dharmaraja, K. Muthukumar	pH Metric, Spectroscopic and Thermodynamic Study of Complexation Behavior of 2-aminobenzothiazole with Ni (II) in Presence of Amino Acids	Acta Chim. Slovenica	198-205 & 57	2010	1.328
31	M.A.Neelakantan, F. Rusal Raj, J. Dharmaraja, S. Johnson Raja, T.Jeyakumar, M. S. Pillai	Spectral characterization, cyclic voltammetry, morphology, biological activities and DNA cleaving studies of amino acid Schiff base metal(II) complexes.	Spectrochim. Acta Part A	1599-1609 & 71	2008	2.098
32	M.A.Neelakantan, S.S. Marriappan, J.Dharmaraja,T. Jeyakumar, K. Muthukumar	Spectral, XRD, SEM and biological activities of transition metal complexes of polydentate ligands containing thiazole moiety.	Spectrochim. Acta Part A	628-635 & 71	2008	2.098
33	M.A.Neelakantan, N.Raman,S. Thalamuthu, J.D.Raja, Sharmila Banerjee	DNA Cleavage and Antimicrobial studies on Transition metal (II) complexes of 4-aminoantipyrine derivative.	J. Chil. Chem. Soc.	1314-1318 & 52	2007	0.532
34	M.A.Neelakantan, M.S.Nair, S.Suda Kumari	Studies on some novel Schiff base complexes in solution and solid state.	J. Coord. Chem	1291 & 60	2007	1.547
35	M.A.Neelakantan, S. Karthikeyan	Characteristics of Electroless Ni-P-graphite composite coatings.	Electroplating and finishing	1-4 & 4	2006	--
36	M.A.Neelakantan, M.S. Nair	Studies on Nickel(II)-Pyridoxamine-Imidazole containing Mixed Ligand Complex Systems.	Iran. J. Chem. & Chem. Eng	97-102 & 23	2004	0.25

### List of National Journals:

S. No	Name of the Authors	Title of the paper	Name of the Journal	Page No & Vol	Year Publication	Impact Factor
1.	<i>M.A. Neelakantan,</i> M.Esakkiammal, S.S.Mariappan, J. Dharmaraj, T. Jeyakumar	Synthesis, characterization and biological screening of some transition metal complexes derived from <i>o</i> -vanillidene-2-aminobenzothiazole and <i>o</i> -vanillidene-2-amino-N-(2-pyridyl)-benzene sulfonamide.	<i>Indian J. Pharm. Sci.</i>	216-222 & 72	2010	0.626
2.	<i>M.A. Neelakantan,</i> C.Puthiyasekar, S.Poongothai	Impact of industrial pollution on the physicochemical characteristics of sea water in Thoothukudi coastal area	<i>Rasayan J. Chem.,</i>	912-919 & 4	2009	0.745
3.	<i>M.A. Neelakantan,</i> K.Sirajudeen, P.T. Arasu, C.PuthiyaSekar, S.Poongothai	Correlation study on physicochemical parameters of ground water in and around coastal area, Tirunelveli district	<i>Int. J. Chem. Sci.</i>	1421-1426 & 7	2009	--
4.	<i>M.A. Neelakantan</i> F. Russal Raj, M. S. Pillai	Spectroscopy, electrochemistry and biocidal activity of amino acid Schiff base metal complexes.	<i>J. Indian Chem. Soc.</i>	100-104 & 85	2008	0.192
5.	<i>M.A. Neelakantan,</i> P. T. Arasu, S. Hema	Physico-chemical analysis of Tamirabarani river water in South area	<i>Indian J. Sci. &amp; Technol.,</i>	1-7 & 1	2007	--
6.	<i>M.A. Neelakantan,</i> S. Karthikeyan	Diacetyl thiourea as an inhibitor for the corrosion of mild steel in acidic solutions	<i>J. Electrochem. Soc.</i>	151	2005	2.42
7.	<i>M.A. Neelakantan,</i> M.S. Nair	Ternary complexes of Ni(II) involving 6-aminopenicillanic acid and some potentially bidentate or tridentate ligands.	<i>Indian J. Chem.</i>	2088-2091 & 41A	2002	0.891

S. No	Name of the Authors	Title of the paper	Name of the Journal	Page No & Vol	Year Publication	Impact Factor
8.	<i>M.A.Neelakantan,</i> M.S. Nair, A. Dhanalakshmi, P. Vijaya, P. T. Arasu	Studies on ternary complexes of Ni(II) involving ligands with nitrogen, sulfur or oxygen as donor groups.	<i>J.Indian Chem. Soc.</i>	81-83 & 79	2002	0.382
9.	<i>M.A.Neelakantan,</i> M.S. Nair	Ternary complexes of Ni(II) involving ampicillin and some potentially bi- and tridentate ligands.	<i>J.Indian Chem. Soc.</i>	394-396 & 77,	2000	0.382
10.	<i>M.A.Neelakantan,</i> M.S. Nair	Solution behaviour of mixed ligand complexes of Ni(II) involving penicillin group drugs and sulfur containing ligands under physiological conditions.	<i>J.Indian Chem. Soc.,</i>	373-375 & 77	2000	0.382
11.	<i>M.A.Neelakantan,</i> M.S. Nair	Ligational behaviour of pyridine-2,3-dicarboxylic acid with nickel(II) in presence of imidazoles.	<i>J.Indian Chem. Soc.</i>	23-25 & 77	2000	0.382
12.	<i>M.A.Neelakantan,</i> M.S. Nair, S.S. Sunu	Potentiometric study of the multiple equilibria in nickel (II) and copper (II) mixed ligand complexes containing nicotonic acid and imidazoles.	<i>Indian J. Chem.</i>	1307-1309 & 38A	1999	0.891
13.	<i>M.A.Neelakantan,</i> M.S. Nair	Potentiometric and spectral studies of the solution equilibria in Nickel (II)-6-aminopenicillanic acid-imidazole containing ligand systems.	<i>Indian J. Chem.,</i>	575-578 & 38A	1999	0.891
14.	<i>M.A.Neelakantan,</i> M.S. Nair, J.Pauline Anbarasi, P. Thillai Arasu	Structural influence on the stability of some nickel (II) ternary complex chelates.	<i>Indian J. Chem.</i>	166-169 & 38A	1999	0.891

S. No	Name of the Authors	Title of the paper	Name of the Journal	Page No & Vol	Year Publication	Impact Factor
15.	<i>M.A.Neelakantan,</i> M.S. Nair, P. T. Arasu, S. Gnana Sutha, M. S. Pillai	pH-metric and spectroscopic studies on some ternary complex systems of nickel(II).	<i>Indian J. Chem.</i>	1084-1089 & 37A	1998	0.891
16.	<i>M.A.Neelakantan,</i> M.S. Nair, P. T. Arasu, M. S. Pillai	Thermodynamic parameters of imidazole containing mixed ligand complexes of nickel (II).	<i>Indian J. Chem.,</i>	512-516 & 37A	1998	0.891
17.	<i>M.A.Neelakantan,</i> M.S. Nair, P. T. Arasu, M. Vincent, M. S. Pillai	Potentiometric and visible Spectral Studies of Mixed ligand Complexes of Nickel (II) containing 1,2-Diaminopropane and some amino acids.	<i>J. Indian Chem. Soc.</i>	95-97 & 75	1998	0.382
18.	<i>M.A.Neelakantan,</i> M.S. Nair, P. T. Arasu	Computer based stability constants and absorption maximum values for the copper(II) ternary complexes containing L-cysteic acid and some selected ligands.	<i>Indian J. Chem.</i>	879-886 & 36A	1997	0.891
19.	<i>M.A.Neelakantan,</i> M.S. Nair, B.V.Persis Gnanaselvi, P. Shenbagavalli	Effect of nickel (II) ternary complex formation on the coordination behaviour of glycyglycine in aqueous solution.	<i>Indian J. Chem.</i>	576-579 & 34A,	1995	0.891
20.	<i>M.A.Neelakantan,</i> M.S. Nair, P. T. Arasu, S. Sheik Mansoor, P. Shenbagavalli	Stability and structure of copper(II), nickel(II) and Zinc(II) hetero binuclear complexes containing some biologically important ligands.	<i>Indian J. Chem.</i>	365-369 & 34A	1995	0.891

S. No	Name of the Authors	Title of the paper	Name of the Journal	Page No & Vol	Year Publication	Impact Factor
21.	<i>M.A.Neelakantan,</i> M.S. Nair, P.T. Arasu, P. Thilagavathi	Structural influence on the stability of mixed ligand complexes of copper (II) with aliphatic diamines and amino acids.	<i>Indian J. Chem.</i>	429-431 & 33A	1994	0.891

\* Publications:(Mathematics)

Number of papers published in peer reviewed journals (national / international)

\* **International – 6**

**List of International Journals: (Mathematics)**

S. No	Name of Authors	Title of the Paper	Name of the journal	Page No & Volume	Year of Publication	Impact factor
1	M.A.Perumal, S.Navaneethakrishn, A.Nagarajan	Lucas gracefulness labeling for some graphs	International journal of Mathematical Combinatorics	1-19 & Vol-1	2011	--
2	M.A.Perumal S.Navaneethakrish, A.Nagarajan	Lucas gracefulness of almost and nearly for some graphs	International journal of Mathematical Combinatorics	88 -106 & Vol-3	2011	--
3	M.A.Perumal, S.Navaneethakrishnan A.Nagarajan, S.Arockiaraj	Super graceful labeling for some special graphs	International Journal of Research and Reviews in Applied Sciences	382-404 & Vol-9(3)	2011	--
4	M.A.Perumal, S.Navaneethakrishnan A.Nagarajan, S.Arockiaraj	Super graceful labeling for some simple graphs	International Journal of Mathematics and soft Computing	35-49 & Vol-2(1)	2012	--
5	M.A.Perumal, S.Navaneethakrishnan A.Nagarajan	Strong Lucas graceful labeling for some graphs	Scientia Magna	94-123 & Vol-7(3)	2012	--
6	M.A.Perumal, S.Navaneethakrishnan A.Nagarajan, S.Arockiaraj	Super graceful labeling for H-class of graphs	International Journal of Engineering Science Advanced Computing and Bio-Technology,	42-66 & Vol-3(1)	2012	--

\* Publications:(Physics)

Number of papers published in peer reviewed journals (national / international)

\* **International – 7 National - 2**

### List of International Journals: (Physics)

S. No.	Authors	Title of the Paper	Name of the Journal	Page No. & Vol.	Year of Publication	Impact Factor
1	Ashok kumar .J Dr.S.Perumal	Brush Electrodeposited AgGaSe thin films	International Journal of applied Engg. Research	10 (2) 1602-1605	2015	-
2	R. Anitha, M. Gunasekaran, S. Suresh Kumar and S. Athimoolam	Structural and vibrational spectral studies on hydrogen bonded salts: 4-chloroanilinium maleate and nitrate,	J. Chem. Sci.	accepted	2015	1.191
3	R. Anitha, M. Gunasekaran, S. Suresh Kumar, S. Athimoolam and B. Sridhar	Single crystal XRD, vibrational and quantum chemical calculation of pharmaceutical drug paracetamol: A new synthesis form	Spectro. Chim. Acta. A	vol. 150, 488-498	2015	2.353
4	R. Anitha, S. Athimoolam, and M. Gunasekaran	A strong N-H...Br hydrogen bonding behaviour of an isomorphous crystal 2-nitroanilinium bromide studied through structure, vibration and quantum chemical calculations	Spectro. Chim. Acta. A	vol.138, pp. 753-762	2015	2.353
5	R. Anitha, S. Athimoolam, M. Gunasekaran and K. Anitha	X-ray, vibrational spectra and quantum chemical studies on a new semiorganic crystal: 4-chloroanilinium perchlorate,	J. Mol. Struct.	vol. 1076, pp. 115-125.	2014	1.605
6	R. Anitha, S. Athimoolam, M. Gunasekaran and B. Sridhar	4-Sulfamoylanilinium perchlorate	Acta Cryst. E69	o1236	2013	0.347
7	R. Anitha, S. Athimoolam, S. Asath Bahadur and M. Gunasekaran	4-Chloroanilinium 3-carboxyprop-2-enoate,	Acta Cryst. E68	o959	2013	0.347

### List of National Journals:

S. No.	Authors	Title of the Paper	Name of the Journal	Page No. & Vol.	Year of Publication	Impact Factor
1	Ashok kumar .J Dr.S.Perumal	Brush electrodeposited silver indium selenide films and their optical	Materials Science in Semiconductor Processing	27 412-417	2014	1.72

S. No.	Authors	Title of the Paper	Name of the Journal	Page No. & Vol.	Year of Publication	Impact Factor
		characteristics				
2	Ashok kumar .J Dr.S.Perumal	Brush Electrodeposited AgGaSe2 Films and Their Optical Characteristics	Chinese Journal of Physics	VOL. 53, NO. 2	2014	0.4

\* Publications:(Humanities)

Number of papers published in peer reviewed journals (national / international)

\* **National – 4**

**List of National Journals : (Humanities)**

S. No	Name of Authors	Title of the Paper	Name of the journal	Page No. & Vol.	Year of Publication	Impact factor
1	Dr.R.Sundararaj Dr.A.Subbiah	SWOT Analysis of foreign direct Investment	Readers shelf	4 to 6 & 2	2005	...
2	Dr.R.Sundararaj Dr.A.Subbiah	“Agricultural credit by the Pandiyan Grama Bank – An empirical study of utilization by the borrowers at Kovilpatti Taluk”	Journal of Southern Economist	17 to 18 & 44	2006	...
3	Dr.R.Sundararaj Dr.A.Subbiah	“Socio – Economic factors influencing the Utilization of Agricultural credit by the borrowers of Pandiyan Grama Bank – A study with reference to Thoothukudi District”	Journal of Southern Economist	31 & 3	2007	...
4	Dr.R.Sundararaj Dr.A.Subbiah	“Benefits accruing to the borrowers of Pandiyan Grama Bank – An empirical study”	Readers shelf	39 & 46	2007	...

\* (b). Monographs, Chapters in Books, Edited Books

Sl. No.	Name of the faculty member	Monographs authored	Chapters authored in Books	Books edited
-	-	-	-	-

List of books published : (Chemistry)

S.No	Name of the Author	Name of the Co-author	Title of the Book	Name of the Publication	Year of Publication
1	M.A. Neelakantan	-	Engineering Chemistry	JTN Publications, Palayamkottai	2013
2	M.A. Neelakantan	-	Engineering Chemistry-II	JTN Publications, Palayamkottai	2013

\* Books with ISBN with details of publishers:

List of Books Published (Mathematics)

S.No.	Name of the Author	Name of the Co-authors	Title of the Book	Name of the Publication	Year of Publication	Books with ISBN number
1	S. Rammurthy	Dr.B. Rajendran V. Seerengasamy R. Ganesan	Engineering Mathematics	Anuradha Publication	2005	978-81-8472-056-3

\* c) Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCOhost, etc.) Citation Index – range / average, h index

Citation Index:

Sl. No.	Name of the Faculty	No listed in International data base	Citation Index Total number	h-index
1	Dr.M.A. Neelakantan	6701537493	583	12
2	Dr.S.S. Mariappan	36016990900	5	1
3	Ms.V.Latha	15750990900	11	2
4	Dr.S. Thalamuthu	24470118900	47	2
5	Dr.R.Anitha	55903131700	13	2

15. Details of patents and income generated - NIL

16. Areas of consultancy and income generated - NIL

17. Faculty recharging strategies

- \* Faculty members are encouraged and motivated to attend and present papers in seminars, workshops and conferences conducted by other colleges.
- \* Faculty development programs are conducted in various disciplines every year.

18. Student projects

- Percentage of students who have done in-house projects including inter-departmental  
Not Applicable

- Percentage of students doing projects in collaboration with industries / institutes  
Not Applicable

19. Awards / recognitions received at the national and international level by

Sl. No.	Name of the Faculty	Awards / Recognition received	
		National	International
	---	---	---

Sl. No.	Doctoral/Post Doctoral Fellows	Awards / Recognition received	
		National	International
	---	---	---

Sl. No.	Students	Awards / Recognition received	
		National	International
	---	---	---

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Sl. No.	Name of the seminar / conference / workshop organized	Source of funding	Details of Outstanding participants
1	Environmental & Pollution control	AICTE Sponsored, New Delhi 2002	54
2	Emerging Concepts and Trends in Bioinorganic Chemistry	DST, New Delhi, 2011	72
3	Recent Trends in inorganic materials	DRDO, New Delhi, 2012	60
4	Environmental Challenges in Diffusing Pollution	MoEF Sponsored, New Delhi-2013	48
5	Emerging Concepts and Trends in Bioinorganic Chemistry - 2014	National (DST sponsored) - 2014	120

21. Student profile course-wise:

B.E	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
--	NA	--	--	--	--
--	NA	--	--	--	--

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
--	--	NA	--	--

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations? Not Applicable

24. Student progression

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	NA
Entrepreneurs	NA

25. Diversity of staff

Percentage of faculty who are graduates	
Of the same parent university	NA
From other universities within the State	NA
From other universities from other States	NA

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Year	Number of Faculty awarded Ph.D / D.Sc., D.Litt
2010-11	3
2011-12	-
2012-13	2
2013-14	-
2014-15	1

27. Present details about infrastructural facilities:

Sl.No	Name of the infrastructural facilities	Quantity/Details	
a)	Department Library	Books are available in department library. Students and faculty members use the facilities	
		Subject	No.of Books
		English	168
		Mathematics	490
		Chemistry	189
		Physics	364
		Other (FOC,EG,CT,BCME)	50
		Total	1261
b)	Internet facilities for staff	Computer provided in Staff room with internet facilities	
	Internet facilities for students	Computer available in Laboratory with Internet facilities	
c)	Total number of class rooms	21	
d)	Class rooms with ICT facility	Yes	
e)	Students' laboratories	Chemistry Laboratory, Physics Laboratory English Language Laboratory, Computer Laboratory	
f)	Research laboratories	Chemistry Research Center	

28. Number of students of the department getting financial assistance from College.

Prof.S.Kannappan Memorial Scholarship – 1 Student from 1<sup>st</sup> Year

S.No	Student name	Branch	Academic year
1	M.Karthikeyan	ECE	2008-2009
2	K.Kodeeswari	IT	2009-2010
3	K.Dhivya	CSE	2010-2011
4	M.Chandra	ECE	2011-2012
5	M.Indhumathy	EEE	2012-2013
6	S.Subbulakshmi	CSE	2013-2014
7	P.Tamilarasi	EEE	2014-2015

Every year, a student is selected for this scholarship. Through this scholarship, the student gets benefited for all the four years

29. Was any need assessment exercise undertaken before the development of new program(s)?

If so, give the methodology.

- (i) Based on the demand of the programme- Single window- Counseling
- (ii) Discussion with the Management, Director, Principal, Deans and HOD'S
- (iii) Considering the suggestions given by the stakeholders

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, To Update and Redesign the curriculum and regulations.

b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

The students feedback is considered by the department for improving the teaching-learning process.

c. Alumni and employers on the programmes and what is the response of the department to the same?

Not Applicable

31. List the distinguished alumni of the department (maximum 10) – Not Applicable

32. Give details of student enrichment programmes (special lectures /workshops / seminar) with external experts.

Sl. No.	Title of the special lecture/ workshop / seminar organized	Details of the external expert	Date
Academic year 2010-2011			
1	Aptitude and Mental Skills Development Program	Prof.N.P.Santhi Maheswari, HOD,G.V.N.College,Kovilpatti	20.10.2010
2	A One day Intra collegiate Technical Symposium "SCINEC-'10"	Dr. R.T. Sabapathy Mohan, Vice- Chancellor, M.S. University	16.11.2010
3	A One day Awareness program on 'Marine Engineering'	Mr.A.Ramasubramania Pillai, Chief Engineer & Principal, Chennai school of Ship Management.	02.12.2010
4	An Aptitude Training Program	Mr.A.K. Balakrishna Mohan, Special Assistant,SBI, Sattur.	17.12.2010
5	A One day National Level Technical Symposium 'CHENMAPH-NEC 2011'	Dr.S.Vincent, Member Secretary, TNSCST, Chennai	11.03.2011

Sl. No.	Title of the special lecture/ workshop / seminar organized	Details of the external expert	Date
6.	Communication Class for I Year Student (Weekly 6 hours for 7weeks)	ASKUS Solutions,Chennai	
Academic year 2011-2012			
7	A One Day Orientation Program	Mr.Jeya Prakash A Gandhi, Educational Analyst & Career Consultant	11.11.2011.
8	The BEC Course awareness program	Mr.Joshua Gnanakkan from British Council, Chennai	14.11.2011
9	A One Day Technical Symposium SCINEC'11	Dr.V.Murugesan, Director (Research), Anna University, Chennai.	15.11.2011
10	A one day Inter Collegiate technicalsymposium "CHENMAPH 12"	Dr.Gautham, Chairman, Faculty of Technology, Anna University Chennai.	30.03.2012
11	Communication Class for I Year Student (Weekly 6 hours for 7weeks)	ASKUS Solutions,Chennai	
Academic year 2012-2013			
12	A State level Intercollegiate Competition LITNEC'12	Mr.S.Annamalai, Deputy Editor and Chief of Bureau THE HINDU	08.10.2012
13	The BEC Course awareness program	Mr.Joshua Gnanakkan from Cambridge ESOL, Cambridge University, British Council, Chennai	24.01.2013
14	A One Day Orientation Program	Mr.Jeya Prakash A Gandhi, Educational Analyst & Career Consultant.	01.03.2013
15	A Special Aptitude Training Program	Mr.V.Parthiban, Educare, Educational consultant and Coaching, Kovilpatti	18.03.2013
16	Communication Class for I Year Student (Weekly 6 hours for 7weeks)	ASKUS Solutions,Chennai	
Academic year 2013-14			
17	A One Day State Level Symposium for School Students	Mr.R.Karuppasamy, Trainee IPS, Alumini of NEC, K.R.Nagar, Kovilpatti	23.08.2013
18	A One Day Orientation Program	Mr.Jeya Prakash A Gandhi, Educational Analyst & Career Consultant.	14.09.2013
19	NEC Spark ( A Cultural Competition for all I year B.E., B.Tech.,	Thiru. K.R. Arunachalam, Member Managing Committee NEC, K.R.Nagar, Kovilpatti	01.10.2013

Sl. No.	Title of the special lecture/ workshop / seminar organized	Details of the external expert	Date
	Students)		
20	A One Day Seminar on Advanced Theory In Matrices – ATM'13	Dr.S.Paul Raj, Department of Mathamatics, Anna University, Chennai.	25.10.2013
Academic year 2014-15			
21	TESENEC'14	Dr.K.Vijayakarhikeyan. IAS Sub Collector, Kovilpatti	15.10.2014, 16.10.2014
22	A One Day Orientation Program	Mr.Jeya Prakash A Gandhi, Educational Analyst & Career Consultant.	30.10.2014
23	A One Day Orientation Program for all I year B.E., B.Tech., Students	Mr. Somavalliappan, Educationist, Chennai.	26.11.2014
24	BEC Teachers Support programme for BEC Trainers in and around Tuticorin and Tirunelveli	Mrs.Shantha Mathai, BEC Trainer, Cambridge English Assessment Department	29.01.2015, 30.01.2015
25	NECFYUTSAV'15 A One Day Cultural Programme	-	27.02.2015
26	CHENMAPH'15 A One Day State Level Sympoaium	Shri. A.K. Sukumar Manager Project, CTS, Chennai	13.03.2015

33. List the teaching methods adopted by the faculty for different programmes.

- Conventional Class Room Teaching
- White Board and Marker
- Power Point presentation
- Smart class Room
- Video Lecture

34. How does the department ensure that programme objectives are constantly met and learning

Outcomes monitored?

- (i) Continuous assessment tests are conducted to monitor the learning outcome of the students.
- (ii) By giving assignments
- (iii) Faculty advisors periodically monitor the students
- (iv) Regular interaction with the parents
- (v) By way of Class Committee Meeting, Tutor-Student meeting, Feed back from the students.

35. Highlight the participation of students and faculty in extension activities.
- National Service Scheme(NSS)
  - Youth Red Cross(YRC)
  - Red Ribbon Club(RRC)
36. Give details of “beyond syllabus scholarly activities” of the department.
- \* Encourage the Students to participate in seminars, workshops and various competitions conducted by other colleges.
  - \* The department frequently organizes workshops, conferences, seminars on various topics for the benefit of the students and the faculty members.
  - \* Science club, Maths club, Literary club and Quiz club are periodically organizing the technical events, Aptitude training programming, Competitions related to literary Activities and quiz competitions for the students.
  - \* The department nurtures the students with communication classes paving way for their betterment in their English Speaking skills.
37. State whether the programme/ department is accredited/ graded by other agencies.  
Give details. – Not Applicable
38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

**Strength:**

- ❖ Highly qualified, experienced and committed faculty members.
- ❖ Well equipped laboratories.
- ❖ Updated curriculum to impart futuristic technical education and install high pattern of discipline to improve the student’s standard in today’s global arena.
- ❖ Creating a teaching – learning environment conducive to the pursuit of higher knowledge, relevant skills and experience.
- ❖ Funded research projects in association with the foremost funding agencies like BRNS, BARC, DST, etc., have made a mark for itself in R&D as well.
- ❖ Constant encouragement given for the faculty members in research activities has got a significant production of PhDs.
- ❖ Facilitating students with comfort zone which allows them to showcase their individuality in all aspects.

**Weakness:**

- 30% of the students are first graduates.
- 50% of the students are from rural areas.
- 25% of the students are from Tamil medium.

**Opportunities:**

- The department introduces and offers training to attend the worldwide English proficiency Test, Business English Certificate Course (BEC) conducted by the Cambridge ESOL.
- Department features library facility for the student's utilization.
- A special trainer is arranged to help the students in developing their communication skill by the training programme
- The students are given opportunities to develop their interpersonal skills through the visual shows and by providing awareness and orientation programmes.
- The department also offers aptitude training in order to help them in appearing for competitive exams like SAT, GATE, IES , UPSC, etc.,
- The students are encouraged to present the seminars and motivated with prizes for the best. They also participate in seminars and workshops conducted by other colleges.
- The campus is Wi-Fi enabled and it is highly beneficial for students in terms of their academical activities.

**Challenges:**

- √ Enriching the quality of the students especially belonging to rural background.
- √ To develop the academic standard of the students in international level.

39. Future plans of the department.

**Future Plans:**

- \* To develop research and developmental activities which furnish the technical needs of the technical scenario.
- \* To facilitate students with training for IELTS & TOEFEL exams that lays out path for their international exposure.
- \* To enlighten students with soft skills programme and training that works to sharpen their personality traits.
- \* To provide a constructive training for final year students that aids them to attain better placement.



# NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution Affiliated to Anna University, Chennai)

K.R. Nagar, Kovilpatti - 628 503, Thoothukudi District., Tamilnadu.

Phone : 04632 - 222502, 230227

Fax : 04632 - 232749

Email : Principal@nec.edu.in

Web : www.nec.edu.in

**Dr. S. SHANMUGAVEL, Ph.D.,**

Principal

## 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.

*Shanmugavel*  
11/3/16

Signature of the Head of the institution

**Dr. S. SHANMUGAVEL, Ph.D.,**

with **PRINCIPAL**

**NATIONAL ENGINEERING COLLEGE**

**K.R. NAGAR, KOVILPATTI - 628 503.**

**THOOTHUKUDI - DIST.**

Place:

Date:





**National Engineering College**  
K.R.Nagar, Kovilpatti-628 503,  
Tamilnadu

Ph: 04632- 222502, 230227

Fax:04632-232749

Email:principal@nec.edu.in

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03/15/2011

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