# SELF STUDY REPORT

## FOR

## 1$^{st}$ CYCLE OF ACCREDITATION

## COIMBATORE INSTITUTE OF TECHNOLOGY

COIMBATORE INSTITUTE OF TECHNOLOGY, CIVIL AERODROME POST,
AVINASHI ROAD
641014
www.cit.edu.in

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**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**January 2018**

# 1. EXECUTIVE SUMMARY

## 1.1 INTRODUCTION

Coimbatore Institute of Technology (CIT), is a Government Aided Autonomous Institution established in the year 1956. The Institute offers UG, PG and Ph.D programmes in Science, Engineering and Technology. The Institute is approved by AICTE, Affiliated to Anna University, Chennai and Accredited by NBA. The UGC has conferred the Autonomous status to the Institute since 1987. The NIRF, Govt. of India, has ranked CIT with 34th All India Rank and 1st place in Graduate Outcome in Tamil Nadu during 2016. During 2017, CIT has been ranked with 51th Place by NIRF. The demand for admission is very high and it is the first institution getting filled up all seats during Tamil Nadu Engineering Admissions single window counseling every year. Graduates from CIT acquire minimum one job with reputed national/multi-national companies. CIT focuses on cutting edge technology in terms of research and consultancy.

**Vision**

The Institute strives to inculcate a sound knowledge in engineering along with realized social responsibilities to enable its students to combat the current and impending challenges faced by our country and to extend their expertise to the global arena.

**Mission**

The mission of CIT is to "impart high quality education and training to its students to make them World-class engineers with a foresight to the changes and problems, and pioneers to offer innovative solutions to benefit the nation and the world at large".

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

**Institutional Strength**

- Attracts and retains talented and diverse faculty members to achieve its goals and the atmosphere makes to feel that every faculty members is part of the management system.
- Campus environment is highly motivating, collaborative and commitment oriented towards excellence.
- Formation of Core Group headed by the Chairman to propel teaching-learning process and research activities – bimonthly meetings conducted to review the progress.
- Convergence of technology identification to solve problems faced by industry, government and society.
- The academic process aims to scale up the out-of-box thinking.
- The Faculty and students are motivated to present their research findings in national and international conferences, workshops and seminars.
- Promotes Industrial visits / Internships & training of students to face the competitive examinations – Four weeks industrial training is mandatory before the beginning of the eighth semester in order to become eligible for the award of degree.
- Freedom given to the students to plan, schedule, conduct / organize programs in Co-curricular and

Extracurricular activities – Students Union is constituted by selecting the meritorius students.

- E-learning, E-library, E-governance by interfacing state-of-art digital technology to enhance good teaching learning process, self learning and transparency.

- Academic autonomy in teaching – learning process.
- Choice Based Credit System (CBCS) has been introduced since 2015.

## Institutional Weakness

- International linkages needed for mobility of faculty and students with higher ranking institutions.
- Rigorous government procedure for recruitment.
- Lack of interaction by institutions of National importance in terms of collaborative research, curriculum development, pedagogy, faculty exchange programs for research and consultancy.

## Institutional Opportunity

- CIT looks forward to introduce new professional programmes for value added certificate courses.
- Rigorous method of interaction to tap knowledge resources of alumni who are pursuing successful careers in industry or as entrepreneurs.
- Creating more digital facilities in terms of e-books and e-learning applications.
- More opportunities for innovations through pedagogy.
- Strengthening of curriculum development process to meet the global challenges.
- To move forward for better commercialization of patents.

## Institutional Challenge

- To incubate successful start-ups creating innovative products and business models through Business Incubation centre established in CIT.
- To be a model institute in terms of sustainability, energy and water.
- To establish Industry sponsored research laboratory.
- To enhance the consultancy potential through research & sponsored projects.

# 1.3 CRITERIA WISE SUMMARY

**Curricular Aspects**

Design and development of curriculum / syllabi is carried out by each department, in alignment with the Institute and Department Vision, Mission based on outcome based education (OBE). The academic programs offered by the Institution are planned to meet the global requirements.

Our graduates are enabled to take up highly-valuable and versatile roles as creative designers, innovators, entrepreneurs, and leaders of change (out-of-box thinking). The combined approaches equip our graduates with

high-level strategic thinking, and enable them to translate problems and ideas to tangible, desirable solutions and problem solving skills.

- Establishment of laboratory in collaboration with Industry for state of the art Learning
- Interdisciplinary and professional core courses.
- Presentation of research / technical papers in conferences, symposiums, workshops and seminars.
- Industrial training / internship / mini project – the students are persuaded to do mini projects in individual subjects as well as in pre-final year, which is a mandatory course.
- Language laboratory taught in first and second year classes.
- Fast-track programme - to attend internship, in higher learning institutions, R&D establishments, international universities and multi-national companies.
- Nomination of members to statutory bodies – Scientists, experts from industry & academia, alumni and faculty from nearby institutes.
- The students and members of faculty are motivated to submit research proposals to various funding agencies.

Suggestions offered by the stakeholders who are invited as members in various statutory bodies are deliberated in the program advisory board, board of studies and parents interactions and considered for the development of curriculum and syllabi.

## Teaching-learning and Evaluation

- Conduct of bridge courses – Induction programme for first year students in English, mathematics, physics, chemistry, fundamentals in engineering subjects, human values and interaction of alumni.
- Good faculty-student ratio.
- E-learning – QEEE, NPTEL and MOOC – separate online interactive computing systems available.
- Autonomous management system – Scheduling of timetable, attendance posting and continuous assessment. The students can view all above records through their portal.
- Student counseling system – Each student is assigned to the care of a faculty member called Tutor, who will be available for consultation and advice on all matters, academic and social. Tutor ward meetings (TWM) are held every week.

## Research, Innovations and Extension

The institute has a well formulated research board with senior professors and experienced faculty members in various domains. All the departments are recognized as Research Centers by Anna University, Chennai. The management encourages faculty members to pursue Ph.D for their career growth and advancement. **191 research scholars** have successfully completed their Ph.D programme from the institute. The faculty members and students are also motivated to publish papers in journals. Research centers possess necessary hardware and software facilities to support the faculty and student community. Conferences, symposiums, seminars and workshops are regularly organized every year to promote the research culture among the faculty and students.

The institute has Virtualization center of Excellence in collaboration with Novell, OpenCL Technology, AMD and High Performance Computing with IBM. The institution has signed MoUs with academia, R&D establishments and industries for improving placement, and training. Students are motivated to be a member of any one of the social activity forums like Rotaract Club, Youth Red Cross, Space Club, Nature Club and other

16 Clubs. Student's self development is enriched through Entrepreneur Development Cell and Women Empowerment Cell.

## Infrastructure and Learning Resources

The institute has an exclusive system to monitor and supervise the progress of the activities related to infrastructure and their maintenance. The institution has adequate facilities like classrooms, laboratories, computing equipments, facilities for sports, games and cultural activities and details of the same has been provided. The data requirements of budget allocated for infrastructure augmentation during the last five years are also provided.

Library has a collection of rare books, manuscripts, special reports and knowledge resource in all required disciplines. Library has integrated library management system software facilitating search and accession to books. The average annual expenditure for purchase of books and journals are provided. Library has subscribed to many online journals of open access available to reputed journals. Wi-Fi facilities are provided to all students, faculty members and staff inside the campus. The average expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component as a percentage is provided.

## Student Support and Progression

The college has an independent system for student support and mentoring. It concentrates on students' progression through various committees. The college has **structural characteristics** for the benefit of students such as good infrastructure with ample space, computer labs – with necessary software, Internet and Wi-Fi, cafeteria, laboratory facilities in all the departments with equipment's catering the requirements, gym, facilities for games and sports and library. Comparison with peer institutions shows that CIT is on par with top ranked institutions in terms of the quality of education provided, scope for opportunities and growth and development. CIT has been identified as **"role model"** Institute for effectively offering QEEE courses by IITM. In the last two years, 84 courses have been offered and participated in MOOC courses conducted by Microsoft, Edx.

Financial assistance is offered to the students with government and non-government scholarships. To improve the capabilities of the students in social activities, they are encouraged to contribute their ideas in institute magazines (Shristi, Ilamparavai and Department technical magazines). The placement officer contacts the industries, and organizes campus interviews for the students. Senior students organize mock interviews and group discussion practices on their own to enhance their placement competencies. The students have good interaction with the alumni and make them involved in placement activities such as mock interview, pre-placement talks. Student's grievance redressal system includes committees like Examination & Disciplinary Committee, Appeals and Grievances Committee, Attendance Monitoring Committee and Ombudsman Committee.

## Governance, Leadership and Management

Governance of the institution – Strategic plan – Organizational structure-E-governance in areas of operation-Different committees functioning in the institute- welfare measures for employees – Financial support for academic activates- Performance appraisal systems- financial management and Resource mobilization-Internal quality assurance systems. Vision and Mission statements - Governance of the Institution – Organizational

Structure- Decentralization of Administration and involvement of faculty members in managing certain activities of the Institute - Strategic plan statement with target date of 2020- Details for improving quality of research and MoUs entered into with Institutions/Organizations in India and Overseas countries- Grievance redressal system existing in the Institute – List of committees functioning for different tasks- Implementation of e-governance in Administration, Finance and Accounts and Examination – Welfare measures available for employees of the Institution – Financial aspects involving auditing of Accounts – Conferences, Courses and workshops organized by the Institution – Short term training programmes attended by various faculty members – quality assurance indicating undertaken in the Institution.

## Institutional Values and Best Practices

The Institute implemented gender equity program, installation of waste management technology, planting and preserving trees and student counseling centres.

CIT is one of the reputed and prestigious educational institutions in India. The institute is situated in one of the arterial roads of Coimbatore and the facilities of our Institute are used by school children and walkers club members. The institution provides space to conduct various government/non-government competitive examinations. Various awareness programs are conducted for the students as well as local people. Facilities for differently abled people are also in respective places.

Research promotion remains one of the most significant features by signing MoUs with International Universities, receiving National and International grants and guiding PhD scholars. The renowned Alumni of the institute are a legion which is the ample proof for the success of the Institute.

# 2. PROFILE

## 2.1 BASIC INFORMATION

| Name and Address of the College | |
| --- | --- |
| Name | COIMBATORE INSTITUTE OF TECHNOLOGY |
| Address | COIMBATORE INSTITUTE OF TECHNOLOGY, CIVIL AERODROME POST, AVINASHI ROAD |
| City | COIMBATORE |
| State | Tamil Nadu |
| Pin | 641014 |
| Website | www.cit.edu.in |

| Contacts for Communication | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Designation** | **Name** | **Telephone with STD Code** | **Mobile** | **Fax** | **Email** |
| Professor | M. THIRUM ARIMURUG AN | 0422-2574072 | 9943549700 | 0422-2575020 | thirumarimurugan @gmail.com |
| Principal | V SELLADU RAI | 0422-2574071 | 9629322277 | 0422-2573187 | principal@cit.edu.i n |

| Status of the Institution | |
| --- | --- |
| Institution Status | Grant-in-aid |

| Type of Institution | |
| --- | --- |
| By Gender | Co-education |
| By Shift | Regular |

| Recognized Minority institution | |
| --- | --- |
| If it is a recognized minroity institution | No |

| Establishment Details | |
| --- | --- |
| Date of Establishment, Prior to the Grant of | 01-01-1956 |

| | |
|---|---|
| 'Autonomy' | |
| Date of grant of 'Autonomy' to the College by UGC | 08-07-1987 |

**University to which the college is affiliated**

| State | University name | Document |
|---|---|---|
| Tamil Nadu | Anna University | <u>View Document</u> |

**Details of UGC recognition**

| Under Section | Date |
|---|---|
| 2f of UGC | 03-03-1956 |
| 12B of UGC | 03-03-1956 |

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

| Statutory Regulatory Authority | Recognition/Approval details Institution/Department programme | Day,Month and year(dd-mm-yyyy) | Validity in months | Remarks |
|---|---|---|---|---|
| No contents | | | | |

**Recognitions**

| | |
|---|---|
| Is the College recognized by UGC as a College with Potential for Excellence(CPE)? | No |
| Is the College recognized for its performance by any other governmental agency? | No |

**Location and Area of Campus**

| Campus Type | Address | Location* | Campus Area in Acres | Built up Area in sq.mts. |
|---|---|---|---|---|
| Main campus area | COIMBATORE INSTITUTE OF TECHNOLOGY, CIVIL AERODROME POST, AVINASHI ROAD | Urban | 69 | 37797.64 |

# 2.2 ACADEMIC INFORMATION

| Details of Programmes Offered by the College (Give Data for Current Academic year) | | | | | | |
|---|---|---|---|---|---|---|
| **Programme Level** | **Name of Programme/Course** | **Duration in Months** | **Entry Qualification** | **Medium of Instruction** | **Sanctioned Strength** | **No.of Students Admitted** |
| UG | BE,Civil Engineering | 48 | HSC | English | 120 | 117 |
| UG | BE,Mechanical Engineering | 48 | HSC | English | 120 | 102 |
| UG | BE,Electrical And Electronics Engineering | 48 | HSC | English | 120 | 114 |
| UG | BE,Electronics And Communication Engineering | 48 | HSC | English | 120 | 114 |
| UG | BE,Computer Science Engineering | 48 | HSC | English | 120 | 115 |
| UG | BTech,Chemical Engineering | 48 | HSC | English | 40 | 33 |
| UG | BTech,Information Technology | 48 | HSC | English | 60 | 55 |
| PG | ME,Civil Engineering | 24 | UG | English | 18 | 15 |
| PG | ME,Civil Engineering | 24 | UG | English | 18 | 14 |
| PG | ME,Civil Engineering | 24 | UG | English | 18 | 15 |
| PG | ME,Mechanical Engineering | 24 | UG | English | 18 | 3 |
| PG | ME,Mechanical | 24 | UG | English | 18 | 6 |

| | Engineering | | | | | |
|---|---|---|---|---|---|---|
| PG | ME,Electrical And Electronics Engineering | 24 | UG | English | 18 | 5 |
| PG | ME,Electrical And Electronics Engineering | 24 | UG | English | 18 | 4 |
| PG | ME,Electronics And Communication Engineering | 24 | UGU | English | 18 | 2 |
| PG | ME,Electronics And Communication Engineering | 24 | UG | English | 18 | 1 |
| PG | ME,Computer Science Engineering | 24 | UG | English | 18 | 11 |
| PG | Mtech,Chemical Engineering | 24 | UG | English | 18 | 1 |
| PG | MSc,Computing | 60 | HSC | English | 60 | 60 |
| PG | MSc,Computing | 60 | HSC | English | 60 | 59 |
| PG | MSc,Computing | 60 | HSC | English | 40 | 40 |
| PG | MCA,Computer Applications | 36 | UG | English | 45 | 19 |
| Doctoral (Ph.D) | PhD or DPhil,Civil Engineering | 36 | PG | English | 14 | 14 |
| Doctoral (Ph.D) | PhD or DPhil,Mechanical Engineering | 36 | PG | English | 1 | 1 |
| Doctoral | PhD or DPhi | 36 | PG | English | 3 | 3 |

| (Ph.D) | l,Electrical And Electronics Engineering | | | | | |
|---|---|---|---|---|---|---|
| Doctoral (Ph.D) | PhD or DPhil,Electronics And Communication Engineering | 36 | PG | English | 4 | 4 |
| Doctoral (Ph.D) | PhD or DPhil,Computer Science Engineering | 36 | PG | English | 5 | 5 |
| Doctoral (Ph.D) | PhD or DPhil,Chemical Engineering | 36 | PG | English | 2 | 2 |
| Doctoral (Ph.D) | PhD or DPhil,Information Technology | 36 | PG | English | 2 | 2 |
| Doctoral (Ph.D) | PhD or DPhil,Computing | 48 | PG | English | 1 | 0 |
| Doctoral (Ph.D) | PhD or DPhil,Computer Applications | 48 | PG | English | 1 | 0 |
| Doctoral (Ph.D) | PhD or DPhil,Physics | 48 | PG | English | 2 | 2 |
| Doctoral (Ph.D) | PhD or DPhil,Chemistry | 48 | PG | English | 1 | 0 |
| Doctoral (Ph.D) | PhD or DPhil,Mathematics | 48 | PG | English | 3 | 3 |
| Doctoral (Ph.D) | PhD or DPhil,Humanities | 48 | PG | English | 1 | 0 |
| Doctoral (Ph.D) | PhD or DPhil,Physical Education | 48 | PG | English | 1 | 0 |

**Position Details of Faculty & Staff in the College**

| Teaching Faculty | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Professor | | | | Associate Professor | | | | Assistant Professor | | | |
| | Male | Female | Others | Total | Male | Female | Others | Total | Male | Female | Others | Total |
| Sanctioned by the UGC /University State Government | | | | 13 | | | | 19 | | | | 84 |
| Recruited | 7 | 2 | 0 | 9 | 9 | 9 | 0 | 18 | 35 | 23 | 0 | 58 |
| Yet to Recruit | | | | 4 | | | | 1 | | | | 26 |
| Sanctioned by the Management/Society or Other Authorized Bodies | | | | 11 | | | | 20 | | | | 192 |
| Recruited | 7 | 4 | 0 | 11 | 6 | 14 | 0 | 20 | 60 | 132 | 0 | 192 |
| Yet to Recruit | | | | 0 | | | | 0 | | | | 0 |

| Non-Teaching Staff | | | | |
|---|---|---|---|---|
| | Male | Female | Others | Total |
| Sanctioned by the UGC /University State Government | | | | 32 |
| Recruited | 15 | 8 | 0 | 23 |
| Yet to Recruit | | | | 9 |
| Sanctioned by the Management/Society or Other Authorized Bodies | | | | 77 |
| Recruited | 34 | 43 | 0 | 77 |
| Yet to Recruit | | | | 0 |

| **Technical Staff** | | | | |
|---|---|---|---|---|
| | **Male** | **Female** | **Others** | **Total** |
| Sanctioned by the UGC /University State Government | | | | 123 |
| Recruited | 54 | 6 | 0 | 60 |
| Yet to Recruit | | | | 63 |
| Sanctioned by the Management/Society or Other Authorized Bodies | | | | 34 |
| Recruited | 27 | 7 | 0 | 34 |
| Yet to Recruit | | | | 0 |

## Qualification Details of the Teaching Staff

| **Permanent Teachers** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Highest Qualification** | **Professor** | | | **Associate Professor** | | | **Assistant Professor** | | | |
| | Male | Female | Others | Male | Female | Others | Male | Female | Others | Total |
| D.sc/D.Litt. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph.D. | 15 | 7 | 0 | 20 | 29 | 0 | 22 | 19 | 0 | 112 |
| M.Phil. | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 34 | 0 | 37 |
| PG | 2 | 0 | 0 | 3 | 5 | 0 | 76 | 73 | 0 | 159 |

| Temporary Teachers | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Highest Qualification** | **Professor** | | | **Associate Professor** | | | **Assistant Professor** | | |
| | Male | Female | Others | Male | Female | Others | Male | Female | Others | Total |
| D.sc/D.Litt. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph.D. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M.Phil. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Part Time Teachers | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Highest Qualification** | **Professor** | | | **Associate Professor** | | | **Assistant Professor** | | |
| | Male | Female | Others | Male | Female | Others | Male | Female | Others | Total |
| D.sc/D.Litt. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph.D. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M.Phil. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| **Details of Visting/Guest Faculties** | | | | |
|---|---|---|---|---|
| **Number of Visiting/Guest Faculty engaged with the college?** | **Male** | **Female** | **Others** | **Total** |
| | 2 | 1 | 0 | 3 |

**Provide the Following Details of Students Enrolled in the College During the Current Academic Year**

| Programme | | From the State Where College is Located | From Other States of India | NRI Students | Foreign Students | Total |
|---|---|---|---|---|---|---|
| Doctoral (Ph.D) | Male | 15 | 0 | 0 | 0 | 15 |
| | Female | 21 | 0 | 0 | 0 | 21 |
| | Others | 0 | 0 | 0 | 0 | 0 |
| UG | Male | 532 | 12 | 0 | 0 | 544 |
| | Female | 267 | 6 | 0 | 0 | 273 |
| | Others | 0 | 0 | 0 | 0 | 0 |
| PG | Male | 159 | 0 | 0 | 0 | 159 |
| | Female | 112 | 1 | 0 | 0 | 113 |
| | Others | 0 | 0 | 0 | 0 | 0 |

| Provide the Following Details of Students admitted to the College During the last four Academic Years | | | | | |
|---|---|---|---|---|---|
| **Programme** | | **Year 1** | **Year 2** | **Year 3** | **Year 4** |
| SC | Male | 252 | 258 | 277 | 271 |
| | Female | 175 | 202 | 176 | 173 |
| | Others | 0 | 0 | 0 | 0 |
| ST | Male | 27 | 17 | 33 | 46 |
| | Female | 7 | 26 | 12 | 17 |
| | Others | 0 | 0 | 0 | 0 |
| OBC | Male | 1723 | 1788 | 1660 | 1602 |
| | Female | 1050 | 1075 | 1037 | 988 |
| | Others | 0 | 0 | 0 | 0 |
| General | Male | 156 | 158 | 202 | 182 |
| | Female | 126 | 126 | 143 | 134 |
| | Others | 0 | 0 | 0 | 0 |
| Others | Male | 0 | 0 | 0 | 0 |
| | Female | 0 | 0 | 0 | 0 |
| | Others | 0 | 0 | 0 | 0 |
| Total | | 3516 | 3650 | 3540 | 3413 |

# 2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

| Department Name | Upload Report |
| --- | --- |
| Chemical Engineering | [View Document](#) |
| Chemistry | [View Document](#) |
| Civil Engineering | [View Document](#) |
| Computer Applications | [View Document](#) |
| Computer Science Engineering | [View Document](#) |
| Computing | [View Document](#) |
| Electrical And Electronics Engineering | [View Document](#) |
| Electronics And Communication Engineering | [View Document](#) |
| Humanities | [View Document](#) |
| Information Technology | [View Document](#) |
| Mathematics | [View Document](#) |
| Mechanical Engineering | [View Document](#) |
| Physical Education | [View Document](#) |
| Physics | [View Document](#) |

# 3. Extended Profile

## 3.1 Programme

**Number of programs offered year wise for last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 36 | 36 | 37 | 32 | 36 |

**Number of all programs offered by the institution during the last five years**

**Response : 40**

**How many self-financed Programmes does the institution offer**

**Response : 20**

**Number of new programmes introduced during the last five years, if any**

**Response : 3**

**Number of UG  programmes offered by the College, which are not covered under the Autonomous status of UGC**

**Response : 0**

**Number of PG programmes offered by the College, which are not covered under Autonomous status of UGC**

**Response : 0**

**Whether the College is offering professional programme**

**Response : Yes**

## 3.2 Student

**Number of students year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 3516 | 3650 | 3540 | 3413 | 3563 |

**Number of outgoing / final year students year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1059    | 1128    | 1063    | 1022    | 907     |

**Total number of outgoing / final year students**

**Response : 1059**

**Number of students appeared in the University examination year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 60305   | 58628   | 56468   | 55664   | 54716   |

**Number of revaluation applications year wise during the last 5 years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1456    | 2525    | 2255    | 2595    | 1980    |

# 3.3 Academic

**Number of courses in all programs year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 3494    | 3410    | 3366    | 2906    | 3308    |

**Number of courses offered by the institution across all programs during the last five years**

**Response : 5328**

**Number of full time teachers year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 305     | 298     | 282     | 268     | 261     |

**Number of full time teachers worked in the institution during the last 5 years**

**Response : 1414**

**Number of teachers recognized as guides during the last five years**

**Response : 67**

**Number of sanctioned posts year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 332     | 324     | 307     | 305     | 299     |

**Total number of publications during the last 5 years, which are included in online databases such as SCOPUS, web of science or PubMed/ Indian Citation Index**

**Response : 2304**

## 3.4 Institution

**Number of eligible applications received for admissions to all the programs year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1123    | 1123    | 1141    | 925     | 1050    |

**Number of seats earmarked for reserved category as per GOI/State Govt rule year wise during the last five years**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 734     | 758     | 758     | 614     | 700     |

**Total number of classrooms and seminar halls**

**Response : 112**

**Total number of computers in the campus for academic purpose**

**Response : 2050**

**Total Expenditure excluding salary year wise during the last five years ( INR in Lakhs)**

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 2733.84828 | 955.37198 | 997.88795 | 705.15780 | 755.13647 |

**Annual lighting power requirement (in KWH)**

**Response : 10000**

**Annual power requirement of the institution (in KWH)**

**Response : 120000**

# 4. Quality Indicator Framework(QIF)

# Criterion 1 - Curricular Aspects

## 1.1 Curriculum Design and Development

**1.1.1 Curricula developed /adopted have relevance to the local/ national / regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all the program offered by the Institution**

**Response:**

The Institutional Vision and Mission of the college are imbibed in the academic programmes through the following aspects:

- Teaching & Learning
- Entrepreneurship and Employment
- Research

Design and development of curriculum and syllabi is carried out in the department, in alignment with the Institute and Department Vision, Mission, PEOs and POs of the department. Coimbatore Institute of Technology is an autonomous Institution affiliated to Anna University, Chennai. The administrative system of Coimbatore Institute of Technology is formulated in such a way that it ensures the achievement of the PEOs.

- Following the norms of MHRD/AICTE/UGC, the statutory bodies such as Governing Council, Academic Council, Finance Committee, Standing Committee of the Academic Council, Board of studies and Non-statutory bodies like Planning and Evaluation Committee, Curriculum Development cell, are constituted to review the functioning and performance of the institute and offers suitable advice for the program and follow-up.
- Class committees comprising of students, Head of the Department, faculty members offering the course and a senior faculty member meet periodically to review the course delivery, students' performance and suitable guidance are given to both the faculty members and students for better teaching-learning atmosphere.
- Faculty-student counseling system helps to discuss the progress and problems in studies/extracurricular activities (20students/faculty).
- Faculty participate in FDP, workshops, seminars, symposiums, conferences in national/international forums outside the institution.
- Institute maintains a Entrepreneurship Development Cell to promote entrepreneurship culture among the student community.
- Placement Cell of the Institute maintains a directory of alumni, list of companies and placement trends to facilitate better placement.
- Autonomy of the Institute ensures that the Examination and Valuation are effective and focused towards the achievement of PEOs through Scrutiny of Question Papers and Evaluation of Answer Scripts by an Expert Member invited from Academia and Industries.
- Internal auditing of continuous assessment process (internal evaluation) is carried out at the end of every semester.

- Students project works are evaluated by Experts form the Field Practice with suitable feedback for improvement in future.
- The results are documented, analysed and used in the redefining of the PEOs.
- The PEOs and POs are evaluated for the programme every year and it is analyzed by the Programme Assessment Committee (PAC) and Programme Advisory Board (PAB). The feedback from stakeholders and the gaps in the attainment are used for further modification / revisions in the curriculum and syllabus.

The curriculum is developed considering the needs that exist at the national, state and regional level to promote global competencies, environmental, ethical and social issues through soft skills, language development and recent technological advancements.

| | |
|---|---|
| Science of Creativity and Professional ethics | Common to all Programmes (UG) |
| Valuation of real properties | Civil Engineering (PG) |
| Entrepreneurship development | Common to all Programmes (UG) |
| Safety Engineering | Common to all Programmes (UG) |
| Engineering Economics | Common to all Programmes (UG) |
| Remote Sensing and GIS | Civil engineering (UG) |

To address the issues of regional / national interest, students are motivated to submit proposals and projects to Central and State Government funding Organizations, thereby involving them in finding solutions for the social and ethical problems faced in the current scenario.

The design of curriculum was carried out at our institute during the years 2005, 2009, 2013, and 2015. In the year 2015, CBCS curriculum has been introduced to meet the evolutionary requirements in the industry and other Engineering and business sectors. The improvements in various activities / processes are discussed below.

**Employability:**

Employability is ensured through multi-skill development of the students. To develop multi skills, the Curriculum includes the following provisions:

- Establishment of laboratory in collaboration with Industry for state of the art Learning
- Interdisciplinary electives
- Professional core courses
- Presentation of technical papers
- Introduction of industrial training as a mandatory component in the curriculum
- Internship as part of curriculum
- Mini project
- Language laboratory

**Innovation**

In the curriculum design and development process the following innovations are encouraged through:

- Value added courses / Training to the students
- Inter disciplinary electives
- Mini projects
- Flexibility to choose subjects through open electives, self-study courses, and special electives further enhancing the analytical ability, innovative thinking and creativity.

**Research:**

The curriculum design and development helps the students and faculty members to focus towards research through the following aspects:

- Establishment of linkage with leading research Institutions like IIT, IISC, CSIR, NIT for student internship and projects and research activities.
- Distinguished researchers in Academic Council and Board of Studies suggesting emerging potential areas for research and development.
- It is mandatory for the PG students to publish their research findings in journals/conferences.
- The students and members of faculty are motivated to submit research proposals to various funding agencies.

**Project work**

- The students who comes under Regulations 13 and 15 will carry out a mini project in pre-final year along with their main project in the final year of their program.

**1.1.2 Percentage of programs where syllabus revision was carried out during the last five years**

**Response:** 82.5

1.1.2.1 How many programs were revised out of total number of programs offered during the last five years

Response: 33

| File Description | Document |
|---|---|
| Minutes of relevant Academic Council/BOS meeting | [View Document](View Document) |
| Details of program syllabus revision in last 5 years | [View Document](View Document) |

**1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development**

**Response:** 1.5

1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 65 | 65 | 43 | 42 | 33 |

| File Description | Document |
| --- | --- |
| Average percentage of courses having focus on employability/ entrepreneurship | [View Document](#) |
| MoU's with relevant organizations for these courses, if any | [View Document](#) |
| Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses | [View Document](#) |
| Program/ Curriculum/ Syllabus of the courses | [View Document](#) |

## 1.2 Academic Flexibility

**1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years**

**Response:** 8.69

1.2.1.1 How many new courses are introduced within the last five years

Response: 463

| File Description | Document |
| --- | --- |
| Minutes of relevant Academic Council/BOS meetings | [View Document](#) |
| Institutional data in prescribed format | [View Document](#) |

**1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented**

**Response:** 91.67

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 33

| File Description | Document |
|---|---|
| Institutional data in prescribed format | View Document |
| Minutes of relevant Academic Council/BOS meetings | View Document |

## 1.3 Curriculum Enrichment

**1.3.1 Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum**

**Response:**

The integration of sustainability and environmental ethics into technical education has improved in the past decade and these concepts are adopted by the institution.

Value added courses on various engineering software packages/core areas offered in the college are given below.

| Sl. No. | Name of the Department | Value added courses offered | |
|---|---|---|---|
| 1 | Civil Engineering | ARC GIS, AutoCAD, STAAD Pro, RE Project, E TABS, Primavera | |
| 2 | Computer Science and Engineering | C and C++ Programming, HTML, PHP an Web Designing, Machine Learning using O Simulator, System Maintenance, Web Desig Photoshop. | |
| 3 | Electrical and Electronics Engineering | Intelligent Control using MATLAB, Integrat renewable energies, Hands-on training prog MATLAB, Embedded System hands o programme, Solar Photovoltaic Technology, training on PCB fabrication, ArduinoProg Electrical Engineers, VLSI Design Techniqu Trends in power electronics & drives. | |
| 4 | Electronics and Communication Engineering | Analog Applications, Real Time Systems, Mi Controllers, Internet of Things(IoT) | |
| 5 | Mechanical Engineering | Pro-E, CATIA, Solid Works and ANS Programming and Training. | |
| 6 | Information Technology | Oracle 10G, Multimedia / Web Design, .NE Embedded Systems, Research issues and tool support in high speed wireless networks. | |

The courses are offered after regular college working hours thereby ensuring that all the students have a chance to attend them. Some courses are offered during the weekends, summer/winter vacations. The infrastructure facilities available in the departments are made accessible to the students during the conduct of the programmes.

Apart from the above mentioned courses cross –cutting issues like Gender, Environmental sustainability, Human Values and Professional Ethics forma part of the value added courses. Each programme offers Soft Skill Development, Science of Creativity and Professional Ethics, Communication Skills and Personality Development to inculcate core values of contributing to social and environmental development, enhancing team work and promoting holistic development of students.

There are other committees and clubs which take care of the students like Anti Ragging Committee, Women Empowerment Cell, Placement Cell, NCC and NSS.

| File Description | Document |
| --- | --- |
| Upload the list and description of the courses which address the Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum | [View Document](#) |

**1.3.2 Number of value-added courses imparting transferable and life skills offered during the last five years**

**Response:** 6

1.3.2.1 How many new value-added courses are added within the last 5 years

Response: 6

| File Description | Document |
| --- | --- |
| Brochure or any other document relating to value added courses | [View Document](#) |
| List of value added courses | [View Document](#) |

**1.3.3 Average percentage of students enrolled in the courses under 1.3.2 above**

**Response:** 38.28

1.3.3.1 Number of students enrolled in value-added courses imparting transferable and life skills offered year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1811 | 1529 | 1323 | 998 | 1118 |

| File Description | Document |
|------------------|----------|
| List of students enrolled | [View Document](#) |

**1.3.4 Percentage of students undertaking field projects / internships**

**Response:** 96.77

1.3.4.1 Number of students undertaking field projects or internships

Response: 3657

| File Description | Document |
|------------------|----------|
| List of programs and number of students undertaking field projects / internships | [View Document](#) |

## 1.4 Feedback System

**1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni 5) Parents for design and review of syllabus Semester wise /year wise**
**A. Any 4 of above**

**B. Any 3 of above**

**C. Any 2 of above**

**D. Any 1 of above**

**Response:** A. Any 4 of above

| File Description | Document |
|------------------|----------|
| Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management | [View Document](#) |
| URL for stakeholder feedback report | [View Document](#) |

**1.4.2 Feedback processes of the institution may be classified as follows:**

**A. Feedback collected, analysed and action taken and feedback available on website**

**B. Feedback collected, analysed and action has been taken**

**C. Feedback collected and analysed**

**D. Feedback collected**

**Response:** B. Feedback collected, analysed and action has been taken

| File Description | Document |
| --- | --- |
| URL for feedback report | [View Document]() |

# Criterion 2 - Teaching-learning and Evaluation

## 2.1 Student Enrollment and Profile

### 2.1.1 Average percentage of students from other States and Countries during the last five years

**Response:** 0.47

2.1.1.1 Number of students from other states and countries year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 22 | 10 | 17 | 16 | 18 |

| File Description | Document |
|------------------|----------|
| Institutional data in prescribed format | [View Document](#) |
| List of students (other states and countries) | [View Document](#) |

### 2.1.2 Demand Ratio(Average of last five years)

**Response:** 1

2.1.2.1 Number of seats available year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 1123 | 1123 | 1141 | 925 | 1050 |

| File Description | Document |
|------------------|----------|
| Demand Ratio (Average of Last five years) | [View Document](#) |

### 2.1.3 Average percentage of seats filled  against seats reserved for various categories as per applicable  reservation policy during the last five years

**Response:** 100

2.1.3.1 Number of actual students admitted from the reserved categories year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 734 | 758 | 758 | 614 | 700 |

| File Description | Document |
|---|---|
| Average percentage of seats filled against seats reserved | [View Document](#) |

## 2.2 Catering to Student Diversity

**2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners**

**Response:**

All students who need assistance in improving their technical English language skills are provided with the facilities of the Language laboratory. All students have to undergo the course "Science of Creativity and Personality Development" to imbibe intellectual and moral values, and maintain healthy physique. Bridge courses are conducted for students joining in the First Year of a program. Bridge courses are also conducted for second year students along with lateral entry students joining the program. The announcement of bridge courses being offered is put out to the participants in advance.

Every department has identified an individual classroom for conducting the Bridge Courses, as detailed below:

| CLASS ROOMS for BRIDGE COURSE ||
|---|---|
| **Branch** | **Class room** |
| B.E. Civil Engineering | IT Building 205 |
| B.E. Mechanical Engineering | IT Building 206 |
| B.E. Electrical and Electronics Engineering | IT Building AC Conference Hall |
| B.E. Electronics and Communication Engineering | Library Building AC Conference Hall |
| B.E. Computer Science and Engineering | Library Building AC Conference Hall |
| B.Tech. Information Technology | Main Building 109 (QEEE Hall) |
| B.Tech. Chemical Engineering | Main Building 109 (QEEE Hall) |

A sample Bridge course time table for First Year students, followed in Academic Year 2016-17, is given below:

| Date | 08.30 – 10.20 | 10.35 – 12:25 | 01.30 – 03:15 | 03:30 – 04:45 |
|---|---|---|---|---|
| 19.07.2016 Tuesday | *Mechanics* **Dr.T.Venkatachalam** | Matrices & Determinants **Dr.N.Nagaveni** | Life Skills **Dr.P.Santhi** | Department |
| 20.07.2016 Wednesday | Differential Equations **Dr.B.Gokila** | *Thermal Physics* **Dr.N.** | Communication Skills *Dr.V.Arthy* | Department |

| | | *Muthukumarasamy* | *(Auditorium)* | | |
|---|---|---|---|---|---|
| 21.07.2016 Thursday | Differential Calculus *Dr.S.Somasundaram* | Personality Development *Ms.A.Santha Devi* | *Basics of Semiconductors* *Dr.K.Sakthivel* | Bank Account Opening | |
| 22.07.2016 Friday | *Lasers & Introduction to Fiber Optics* *Dr.S.Vasantha* | Effective Communication *Ms.R.Sudha* | Sequences & Series *Dr.K.S.Ramaswami* | Department | |
| 25.07.2016 Saturday | Integral Calculus *Dr.K.S.Ramaswami* | Soft Skills *Ms.A.Santha Devi* | *Band Theory of Solids* *Dr.K.Thilagavathy* | Department | |

A sample is provided below, for the bridge course for the III-Semester Mechanical Engineering Students:

| Date | 09:00 – 10:50 | 11:05 – 12:55 | 02:00 – 03:15 | 03:30 – 04:45 |
|---|---|---|---|---|
| 07/07/15 | Introduction to Statics and Dynamics | Applied Thermodynamics | Introduction to Statics and Dynamics | Applied Thermodynamics |
| 08/07/15 | Applied Thermo-dynamics | Introduction to Statics and Dynamics | Applied Thermo-dynamics | Introduction to Statics and Dynamics |
| 09/07/15 | Introduction to Statics and Dynamics | Applied Thermodynamics | Introduction to Statics and Dynamics | Applied Thermodynamics |
| 10/07/15 | Applied Thermo-dynamics | Introduction to Statics and Dynamics | Applied Thermo-dynamics | Introduction to Statics and Dynamics |
| 13/07/15 | Introduction to Statics and Dynamics | Applied Thermodynamics | Introduction to Statics and Dynamics | Applied Thermodynamics |
| 14/07/15 | Applied Thermo-dynamics | Introduction to Statics and Dynamics | Applied Thermo-dynamics | Introduction to Statics and Dynamics |

| Subject | Coordinator | Assisting faculty members | |
|---|---|---|---|
| Introduction to Statics and Dynamics | Dr. N. Rajam Ramasamy | Mrs. G. Suganya Priyadharshini Mr. K. Karthik Mr. Tony Punnoose Valayil | |
| Applied Thermodynamics | Dr. A.S. Krishnan | Mr. P. Ramakrishnan Mr. M. Velliangiri Mr. S. Thirumurugan | |

| | | Mr. H. Sivarathinamoorthy |
|---|---|---|
| | | Mrs. P. Arunadevi |

The institute has in place a formal mentoring system to cater to the needs of all students, and specifically students with special needs.

**Tutor-ward mentoring system**

Methodology

Faculty-ward ratio

- 1:20 (Same faculty in-charge throughout the program)
- One senior tutor for every 60 students
- Chairman tutor is the Head of the Department

Frequency of meeting

Once a week for one hour (as specified in time-table)

Activities

- Adaptability with the system
- Assistance in learning process, if needed
- Progress and problems in teaching-learning
- Discussions on examination results
- Career opportunities
- Aptitude
- Group discussion
- Mock interview

**Benefits**

- Improvement in academic performance and discipline
- Able to identify slow learners
- Able to ward-off student campus problems
- Building relationships
- Feedback to the course instructors to improve the teaching-learning process
- Identifying the student needs on facilities and processes

Students who are strong in academics and have no arrear grades are offered an option of Fast Tracking their curriculum. Such students can do extra courses in a semester over and above the prescribed courses for that semester. Students who opt for the fast track scheme are permitted to do their final year project outside the institution (in colleges abroad or in industry).

Effective from Academic Year 2015, students have the option to register for open elective courses/self-study courses/one-credit courses of their choice under the Choice-Based Credit System. The number and credit requirements of such courses are governed by the program regulations.

**2.2.2 Student - Full time teacher  ratio**

**Response:** 12.27

| File Description | Document |
|---|---|
| Institutional data in prescribed format | [View Document](#) |

**2.2.3 Percentage of differently abled students (Divyangjan) on rolls**

**Response:** 0.66

2.2.3.1 Number of differently abled students on rolls

Response: 25

| File Description | Document |
|---|---|
| List of students(differently abled) | [View Document](#) |
| Institutional data in prescribed format | [View Document](#) |

## 2.3 Teaching- Learning Process

**2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences**

**Response:**

The institute has a well-established Library facility that provides latest books, journals, e-books (digital library), which the faculty members use to teach comprehensive and latest information to the students. Students are also encouraged to use the library effectively, which is kept open Mondays to Saturdays. The main objective of the CIT library is to provide information services and access to print and e-resources to support the scholarly and informational needs of the Institute's vibrant student community.  The fully

computerized library is well equipped with modern facilities and resources in the form of books, print and electronic journals, CD-ROMs and on-line databases etc. 'Open Access' system is being followed in the library.

OPAC (Online Public Access Catalogue) facilitates online search related to books, book bank books, journals, CD/DVDs, back volumes and standards available in the library. Users can also reserve the books which are under issue. Users can log-in the OPAC by using their ID/Roll number. OPAC can be accessed in all the intranet connected systems within the campus. OPAC can also be accessed through Smart phones. The CIT library has been subscribing to several e-journals/e-resources. These resources can be accessed anywhere within the campus.

The Institute has adequate numbers of computers and other accessories including 100 Mbps internet connection which are used for teaching-learning process and in research activities. NPTEL lecture material, video lecture materials, and other online learning materials are available to enhance the teaching-learning process. The college has provided sufficient numbers of LCD and OHP projectors to all the departments. The college motivates the students to work on mini-projects and main projects, which are given to students so that they can work on topics beyond syllabus and in contemporary research areas.

The Institute places a lot of importance on inviting subject matter experts from various institutes of higher learning and from institutes of excellence, within the country and abroad, to share their knowledge and experience by delivering Guest Lectures. The invited experts interact with faculty and students during International Conferences, Workshops, Seminars, and Faculty Development Programs.

Every department has its own Student Association which is managed by a student secretary and monitored by a staff advisor. Many such student associations invite external experts from industry to deliver special lectures to the students in the area of their specialization.

The Institute has signed MoUs with various colleges of international repute to facilitate exchange of faculty and students between CIT and the partner institute.

**2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.**

**Response:** 69.81

2.3.2.1 Number of teachers using ICT

Response: 215

| File Description | Document |
|---|---|
| List of teachers (using ICT for teaching) | [View Document](#) |
| Provide link for webpage describing the " LMS/ Academic management system" | [View Document](#) |

**2.3.3 Ratio of students to mentor for academic and stress related issues**

**Response:** 18.43

2.3.3.1 Number of mentors

Response: 205

| File Description | Document |
| --- | --- |
| Year wise list of number of students, full time teachers and mentor/mentee ratio | <u>View Document</u> |

**2.3.4 Preparation and adherence to Academic Calendar and Teaching plans by the institution**

**Response:**

Every department schedules a Departmental Meeting several weeks before the commencement of a new semester, in which courses to be offered in the upcoming semester are allotted to the faculty members.

The Time-Table Committee of the institute is comprised of coordinators representing each department. Prior to the beginning of each semester, the committee meets to discuss and prepare the time-table for the ensuing semester. The time-table, class timings and class room information is then circulated among all departments and hosted in the institute web-site.

Every semester lasts for 16 weeks, during which two mid-semester tests are held: (i) during the end of the eighth week, and (ii) at the end of the semester. A recommended minimum of five assignments are given at regular intervals by the faculty member teaching the course. In addition, faculty members have the flexibility to conduct additional tests over and above the prescribed two mid-semester tests.

For laboratory classes, the institute follows a Continuous Assessment system.

The Office of the Dean (Examinations) schedules the end-semester examinations that are publicized via student notice boards and in the institute web-site. The results of the final examinations for a semester are published before the commencement of the ensuing semester.

## 2.4 Teacher Profile and Quality

**2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years**

**Response:** 90.17

| File Description | Document |
| --- | --- |
| Year wise full time teachers and sanctioned posts for 5 years | <u>View Document</u> |
| List of the faculty members authenticated by the Head of HEI | <u>View Document</u> |
| Any additional information | <u>View Document</u> |

**2.4.2 Average percentage of full time teachers with Ph.D. during the last five years**

**Response:** 30.01

2.4.2.1 Number of full time teachers with Ph.D. year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 109 | 94 | 91 | 84 | 50 |

| File Description | Document |
| --- | --- |
| List of number of full time teachers with PhD and number of full time teachers for 5 years | <u>View Document</u> |

**2.4.3 Teaching experience of full time teachers in number of years**

**Response:** 10.55

2.4.3.1 Total experience of full-time teachers

Response: 3250

| File Description | Document |
| --- | --- |
| List of Teachers including their PAN, designation,dept and experience details | <u>View Document</u> |

**2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years**

**Response:** 1.59

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 7 | 7 | 5 | 2 | 2 |

| File Description | Document |
|------------------|----------|
| Institutional data in prescribed format | View Document |
| e-copies of award letters (scanned or soft copy) | View Document |

**2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years**

**Response:** 0

2.4.5.1 Number of full time teachers from other states year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

| File Description | Document |
|------------------|----------|
| List of full time teachers from other state and state from which qualifying degree was obtained | View Document |

## 2.5 Evaluation Process and Reforms

**2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results during the last five years**

**Response:** 8.6

2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 8 | 8 | 12 | 8 | 7 |

| File Description | Document |
| --- | --- |
| List of programs and date of last semester and date of declaration of result | |

## 2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years

**Response:** 5.54

2.5.2.1 Number of complaints/grievances about evaluation year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 1238 | 3904 | 3491 | 2319 | 4721 |

| File Description | Document |
| --- | --- |
| Number of complaints and total number of students appeared year wise | |

## 2.5.3 Average percentage of applications for revaluation leading to change in marks

**Response:** 18.14

2.5.3.1 Number of applications for revaluation leading to change in marks year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 305 | 407 | 370 | 490 | 363 |

| File Description | Document |
| --- | --- |
| Year wise number of applications, students and revaluation cases | |

## 2.5.4 Positive impact of reforms on the examination procedures and processes including IT integration and continuous internal assessment on the examination management system

**Response:**

*Continuous internal assessment system*

The institute uses an online system known as the University Management System (UMS) in which details such as class attendance, topics covered during a class, class cancellations, re-scheduling of classes, marks awarded in assignments, mid-semester tests, etc. are regularly entered by the individual faculty members handling various classes.

The online system has considerably eliminated the need to maintain paper records of various evaluation activities. The UMS has capabilities to generate attendance and evaluation records that would have otherwise required a separate filing and retrieval system for accessing class records of previous years. All the details of students are stored and retrieved from CoE Servers.

*Processes integrating IT*

The Office of the Dean, Examinations uses the UMS software to take care of the following:

- Registration and Fee payment

Students can register and pay their examination fees through Mobile Application Software using their debit or credit card. Further, fee payment may also be made through ATMs of Indian Bank across the country.

- Transfer of internal marks from faculty to CoE Office

For theory course, all the continuous assessment (CA) marks are sent to Dean Examinations through online mode. All practical courses are evaluated under the CA scheme. Marks obtained by students in practical courses are sent to Dean Examinations through online mode. Students can view their CA marks through student portal.

- Processing and publication of results

At the end of the semester, examination marks are integrated using UMS. Galley sheets are prepared and placed before Result Passing Board. Details of the results are presented using Power Point tools.

- Publication of results

Results are displayed in the institute web-site. Students can view their results through student portal.

- Registration for courses

Under the Choice-Based Credit System (CBCS), students can register online for courses and choose the faculty member under whom they wish to study.

*Examination Procedures*

Faculty members are continuously advised to set question papers that test the conceptual understanding of a subject matter by the students, by demonstrating their ability to solve analytical problems. To maintain the standard of the question papers, departmental-level Question Paper Scrutiny Boards for Mid-Semester Tests question paper scrutiny have been constituted. In addition, there is a scrutiny board at the institute-level for assessing the quality of end-semester examination question papers. Emphasis is given on framing the questions using Bloom's Taxonomy. On the examination day, the faculty member who taught the

subject also go through the question paper.

Special supplementary examination is conducted for final semester students, who do not have outstanding arrears, immediately after the semester examination results are declared. This helps such students to get jobs without much time delay.

Under CBCS, a new set of letter grades starting from "O, A+, A, B+ and B " are awarded, in place of the older "A, B, C, D and E" grades.

A continuous evaluation process has been implemented in the institute for use in the laboratory courses. Each experiment is evaluated on the same day. The marks were assigned for attendance, observations, laboratory record and viva. The marks earned are recorded in the class register and online UMS maintained by the concerned faculty. The faculty members also have the flexibility to conduct laboratory examinations, which are evaluated by a panel made up of an internal examiner and an external examiner.

| File Description | Document |
|---|---|
| Link for Additional Information | [View Document](#) |

**2.5.5 Status of automation of Examination division along with approved Examination Manual**
**A. 100% automation of entire division & implementation of Examination Management System (EMS)**

**B. Only student registration, Hall ticket issue & Result Processing**

**C. Only student registration and result processing**

**D. Only result processing**

**Response:** A. 100% automation of entire division & implementation of Examination Management System (EMS)

| File Description | Document |
|---|---|
| Current Manual of examination automation system | [View Document](#) |
| Current manual of examination automation system and Annual reports of examination including the present status of automation | [View Document](#) |
| Any additional information | [View Document](#) |

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students**

**Response:**

Please refer to uploaded file 2.6.1A.pdf for sample Program Outcomes, Course Outcomes, and Program Specific Outcomes for select programs.

**How and where the POs are published and disseminated :**

Program Outcomes are documented in the following places:

- Department Office
- Department web-pages in the Institute web-site
- Notice boards of the department laboratories
- Curriculum and Syllabus book given to the students

The students are informed about the POs during the start of each new academic year, by the HOD/Course Faculty/Tutor.

The students are informed about course outcomes for a particular course, at the beginning of each semester, by the concerned faculty who is handling the course.

| File Description | Document |
|---|---|
| Any additional information | View Document |
| Link for Additional Information | View Document |

**2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution**

**Response:**

Different departments in CIT follow their own approach for calculation of course outcomes and program outcomes. A sample of some of the diferent approaches used by various departments is uploaded as file 2.6.2A.pdf.

The target level for attainment of course outcomes and program outcomes also varies between courses and programs, depending upon the perceived level of course complexity.

Each department has constituted a Department Advisory Committee that comprises of senior faculty members of the department, and other stakeholders such as parents, representatives from industry, and students, to formulate and approve the Program Outcomes for all the programs offfered in that department. Each department has constituted its own Board of Studies that meets at regular intervals to approve changes in course contents, and to revise and improve course outcomes statements. The Board of Studies also approves the introduction of new courses as and when required.

| File Description | Document |
| --- | --- |
| Any additional information | View Document |

**2.6.3 Average pass percentage of Students**

**Response:** 85.54

| 2.6.3.1 Total number of final year students  who passed the university examination |
| --- |
| Response: 852 |

| 2.6.3.2 Total number of final year students who appeared for the examination |
| --- |
| Response: 996 |

| File Description | Document |
| --- | --- |
| List of programs and number of students passed and appeared in the final year examination | View Document |
| Link for annual report | View Document |

## 2.7 Student Satisfaction Survey

**2.7.1 Online student satisfaction survey regarding teaching learning process**

**Response:**

| File Description | Document |
| --- | --- |
| Database of all currently enrolled students | View Document |

# Criterion 3 - Research, Innovations and Extension

## 3.1 Promotion of Research and Facilities

### 3.1.1 The institution has a well defined policy for promotion of research and the same is uploaded on the institutional website

**Response:** Yes

| File Description | Document |
|---|---|
| Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption | View Document |
| URL of Policy document on promotion of research uploaded on website | View Document |

### 3.1.2 The institution provides seed money to its teachers for research (average per year)

**Response:** 1.26

3.1.2.1 The amount of seed money provided by institution to its faculty year wise during the last five years(INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 3.54 | 2.74 | 0 | 0 | 0 |

| File Description | Document |
|---|---|
| List of teachers receiving grant and details of grant received | View Document |

### 3.1.3 Number of teachers awarded international fellowship for advanced studies/ research during the last five years

**Response:** 3

3.1.3.1 The number of teachers awarded international fellowship for advanced studies / research year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 1 | 1 | 0 | 1 | 0 |

| File Description | Document |
|---|---|
| List of teachers and their international fellowship details | [View Document](#) |
| e-copies of the award letters of the teachers. | [View Document](#) |

**3.1.4 Institution has the following facilities**

1. **Central Instrumentation Centre**
2. **Animal House/Green House / Museum**
3. **Central Fabrication facility**
4. **Media laboratory/Business Lab/Studios**
5. **Research / Statistical Databases**

**A. Any four facilities exist**

**B. Three of the facilities exist**

**C. Two of the facilities exist**

**D. One of the facilities exist**

**Response:** C. Two of the facilities exist

| File Description | Document |
|---|---|
| Any additional information | [View Document](#) |
| Link to videos and photographs geotagged | [View Document](#) |

## 3.2 Resource Mobilization for Research

**3.2.1 Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution during the last five years(INR in Lakhs)**

**Response:** 3403.42

3.2.1.1 Total Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year wise during the last five years(INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 890.82 | 14.331 | 120.68 | 28.33334 | 2349.25335 |

| File Description | Document |
| --- | --- |
| e-copies of the grant award letters for research projects sponsored by non-government | [View Document](#) |
| List of project and grant details | [View Document](#) |

---

**3.2.2 Number of research centres recognised by University and National/ International Bodies**

**Response:** 14

3.2.2.1 **Number of research centres recognised by University and National/ International Bodies**

Response: 14

| File Description | Document |
| --- | --- |
| Names of research centres | [View Document](#) |

---

**3.2.3 Percentage of teachers recognised as research guides**

**Response:** 21.75

3.2.3.1 **Number of teachers recognised as research guides**

Response: 67

| File Description | Document |
| --- | --- |
| Details of teachers recognized as research guide | [View Document](#) |

---

**3.2.4 Average number of research projects per teacher funded by government and non-government agencies during the last five years**

**Response:** 0.03

3.2.4.1 Number of research projects  funded by government and non-government agencies during the last five years

Response: 38

| File Description | Document |
| --- | --- |
| List of research projects and funding details | [View Document](#) |
| Supporting document from Funding Agency | [View Document](#) |
| link to funding agency website | [View Document](#) |

## 3.3 Innovation Ecosystem

### 3.3.1 Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

**Response:**

Business Incubation Centre of Coimbatore Institute of Technology is sponsored under incubation scheme of Ministry of Micro, Small & Medium Enterprises in the year 2015. This centre nurtures knowledge based innovative ideas from entrepreneurs and professionals. These ideas are promoted and developed in this incubation centre with the help of industry and academic mentors. Objectives of this center are:

· To increase technology based entrepreneurs in the region of Coimbatore

· To support individual innovators and existing SMEs who seeks nurturing for business development

· To promote networking and forging of linkages with other constituents of the innovation chain for commercialization of their developments

| File Description | Document |
|---|---|
| Any additional information | [View Document](#) |

### 3.3.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry - Academia Innovative practices during the last five years

**Response:** 32

3.3.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 3 | 5 | 7 | 8 | 9 |

| File Description | Document |
|---|---|
| List of workshops/seminars during the last 5 years | [View Document](#) |

### 3.3.3 Number of awards for innovation won by institution/ teachers/ research scholars/students during the last five years

**Response:** 33

3.3.3.1 Total number of awards for innovation won by institution/teachers/research scholars/students year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 6 | 6 | 6 | 11 | 4 |

| File Description | Document |
|------------------|----------|
| List of innovation and award details | [View Document](#) |

## 3.3.4 Number of start-ups incubated on campus during the last five years

**Response:** 2

3.3.4.1 Total number of start-ups incubated on campus year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 2 | 0 | 0 | 0 | 0 |

| File Description | Document |
|------------------|----------|
| List of startups details like name of startup, nature, year of commencement etc | [View Document](#) |

# 3.4 Research Publications and Awards

## 3.4.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

**Response:** Yes

| File Description | Document |
|------------------|----------|
| Institutional data in prescribed format | [View Document](#) |

## 3.4.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

**Response:** No

| File Description | Document |
|------------------|----------|
| List of Awardees and Award details | [View Document](#) |

**3.4.3 Number of Patents published/awarded during the last five years**

**Response:** 3

3.4.3.1 Total number of Patents published/awarded year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 0 | 0 | 0 | 1 | 2 |

| File Description | Document |
| --- | --- |
| Any additional information | View Document |
| List of patents and year it was awarded | View Document |

**3.4.4 Number of Ph.D.s awarded per teacher during the last five years**

**Response:** 2.85

3.4.4.1 How many Ph.Ds are awarded within last 5 years

Response: 191

| File Description | Document |
| --- | --- |
| List of PhD scholars and their details like name of the guide , title of thesis, year of award etc | View Document |
| URL to the research page on HEI web site | View Document |

**3.4.5 Number of research papers per teacher in the Journals notified on UGC website during the last five years**

**Response:** 0.65

3.4.5.1 Number of research papers in the Journals notified on UGC website during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 106 | 165 | 192 | 194 | 244 |

| File Description | Document |
|---|---|
| List of research papers by title, author, department, name and year of publication | [View Document](#) |

### 3.4.6 Number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings per teacher during the last five years

**Response:** 0.41

3.4.6.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 45 | 119 | 91 | 150 | 158 |

| File Description | Document |
|---|---|
| List books and chapters in edited volumes / books published | [View Document](#) |

### 3.4.7 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

**Response:** 1

3.4.7.1 Total number of citations received by publications in the last 5 years, which are included in online databases such as SCOPUS, web of science or PubMed/ Indian Citation Index

Response: 2304

| File Description | Document |
|---|---|
| BiblioMetrics of the publications during the last five years | [View Document](#) |

### 3.4.8 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

**Response:** 9.13

3.4.8.1 Number of citations received by individual research publications in the last 5 years

Response: 1670

3.4.8.2 Number of publications receiving proportionately maximum number of citation in the last five years

Response: 183

| File Description | Document |
|---|---|
| Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution | View Document |

## 3.5 Consultancy

### 3.5.1 Institution has a policy on consultancy including revenue sharing between the institution and the individual

Response: Yes

| File Description | Document |
|---|---|
| URL of the consultancy policy document | View Document |

### 3.5.2 Revenue generated from consultancy during the last five years

Response: 96.24

3.5.2.1 Total amount generated from consultancy year wise during the last five years (INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 12.42859 | 42.37647 | 18.88633 | 16.66609 | 5.88024 |

| File Description | Document |
|---|---|
| List of consultants and revenue generated by them | View Document |
| Audited statements of accounts indicating the revenue generated through consultancy | View Document |

### 3.5.3 Revenue generated from corporate training by the institution during the last five years

Response: 0

3.5.3.1 Total amount generated from corporate training by the institution year wise during the last five years (INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 0 | 0 | 0 |

| File Description | Document |
|------------------|----------|
| List of teacher consultants and revenue generated by them | View Document |

## 3.6 Extension Activities

**3.6.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years**

**Response:**

1. Community service – Digital Literacy for Underprivileged students
2. Health and hygiene for Girl students
3. Swachh Bharat
4. Anti Ragging
5. Motivate in the Curricular co-curricular and extra curricular activities
6. Smart India Hackathon
7. National Cadet Corps ( NCC )- Village cleaning
8. Health Camp ( HC )
9. Blood donation camp ( BDC )
10. Orphanage Visit ( OV )
11. Digital Literacy awareness (DLA )
12. Youth Red Cross
13. National Service Scheme ( NSS )

| File Description | Document |
|-----------------|----------|
| link for additional information | View Document |

**3.6.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years**

**Response:** 20

3.6.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 4 | 4 | 9 | 3 | 0 |

| File Description | Document |
|------------------|----------|
| e-copy of the award letters | View Document |
| Number of awards for extension activities in last 5 years | View Document |

**3.6.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., during the last five years**

**Response:** 52

3.6.3.1 Number of extension and outreach programs conducted in collaboration with industry,community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc.,year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 15 | 21 | 8 | 1 | 7 |

| File Description | Document |
|------------------|----------|
| Number of extension and outreach programs conducted with industry,community etc for the last five years | View Document |

**3.6.4 Average percentage of students participating in extension activities with Government Organisations,  Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years**

**Response:** 37.32

3.6.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 2074 | 1151 | 2175 | 360 | 859 |

| File Description | Document |
|---|---|
| Average percentage of students participating in extension activities with Govt. or NGO etc. | |

## 3.7 Collaboration

### 3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange per year

**Response:** 4.8

3.7.1.1 Total number of Collaborative activities for research, faculty exchange, student exchange year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 3 | 9 | 6 | 2 | 4 |

| File Description | Document |
|---|---|
| Copies of collaboration | |
| Number of Collaborative activities for research, faculty etc. | |

### 3.7.2 Number of linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the last five years

**Response:** 134

3.7.2.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 33 | 40 | 14 | 21 | 26 |

| File Description | Document |
|---|---|
| Details of linkages with institutions/industries for internship | |

**3.7.3 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)**

**Response:** 25

3.7.3.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 3       | 4       | 10      | 0       | 8       |

| File Description | Document |
|------------------|----------|
| e-copies of the MoUs with institution/ industry/ corporate house | [View Document](#) |
| Details of functional MoUs with institutions of national, international importance,other universities etc. during the last five years | [View Document](#) |

# Criterion 4 - Infrastructure and Learning Resources

## 4.1 Physical Facilities

**4.1.1 The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc**

**Response:**

The Heads of the departments on discussion with their faculty members prepare a list of infrastructure facilities needed for the department each year and submit the same to the evaluation committee. The committee will examine and submit its recommendation to the Principal for sanction. The sanction is given without any delay to fulfill their requirements. The institute has an exclusive system to monitor and supervise the progress of the activities related to infrastructure and their maintenance.

Senior professors are designated as in-charges of several responsibilities related to institute's infrastructure. They are designated to look after the facilities like seminar halls, laboratories and other facilities of the Department. There is a faculty member for each lab to act as the lab in-charge to ensure that the labs are maintained and properly utilized. The institute has a Dean for maintenance assisted by a team of engineers and supervisors to ensure appropriate maintenance and usage of the infrastructure facilities available in the Institute which are elaborated as below.

**General Infrastructure:**

- Tar Road & Maintenance   : Good
- Ambience in the campus   : Good and is on further upgradation.
- Bank, ATM       :Good, a Bank in the campus with 2 ATMs

Facilities are available.

- Auditorium      : Excellent
- Open Air theatre    : Good
- Transport Facility    : Very Good
- Street Lights     : Outstanding
- Security       : Very Good
- Vehicle Parking Facilities  : Very Good
- Power Backup     : Very Good ( 24 x 7 )
- Canteen       : Good.

- Classrooms         :Good

- Lightning and Ventilation    : Excellent
- Air Conditioning in Seminar / Conference Halls : Very Good
- Black Board, Chalks and Duster   : Good
- Projector Quality       : Good
- Quantity of Furniture      : Very Good
- Cleanliness        : Good
- Facility for physically challenged   : Available in all building

**Laboratories:**

- No. of machines / equipments kits available in the laboratories: Very Good
- Technology of equipments / software / kits          : Up to date
- Sufficiency of space in the laboratory               : Good
- Maintenance of Laboratory                          : Good
- Working hours of laboratory                          :Regular class hours and up to 9 pm after class hours.
- Power supply in laboratory                          :24 x 7
- Availability of technicians to assist students        : Good
- Safety measures                                    : Very Good

**Library**

- Availability of Books ( Titles and Volumes)          :More than Adequate
- Availability of Journals ( Hard/Soft )              :More than Adequate
- Reading Space                                      :Sufficient
- Availability of library                            :Yes digital
- Number of Books issued per student against cards : Very Good

Equipment and instruments necessary to meet the curriculum requirements are available in the laboratories .Trained and experienced technicians look after the maintenance of equipment in the laboratories. Each department has a separate computer centre to cater the needs of the students . In addition, a central computer centre is available for the use of all the students in the institute. Two service engineers employed by the college take care of the maintenance of the computers. The library has a total area of 2250 sq.m. The total number of titles is 41609 and that of the volumes is 107666. The number of national/international print and online journals is 1576. The library is managed by two qualified librarians and supporting staff.

| File Description | Document |
|---|---|
| Any additional information | View Document |
| Link for Additional Information | View Document |

**4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor, gymnasium, yoga centre etc.,) and cultural activities.**

**Response:**

**Gym:**

- Availability of Gym    :Yes
- Working Hours          : 6 am to 8 am, 5 pm to 9 pm
- Fees                   : Free
- Action:
- More advanced equipments have been added to the gymnasium

**Facilities for games and sports :**

- Support and Promotion: Very Good

- Availability of grounds for different games ( cricket, football, hockey, basket ball, volley ball, tennis, badminton, athletics etc.) - Available, more than adequate

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

The institute has one 400 meter running track, two playgrounds for hockey, football & cricket and three tennis courts, two volley ball courts, one basket ball court and full- fledged gymnasiums separately for boys and girls. The staff of Physical Education department maintains the play grounds and other sports facilities.

- Qualified Physical Directors with Ph.D, M.Phil.,M.PEd, qualifications are employed to give coaching.
- General budget allocates funds for sports and games as per requirement.
- Synthetic turfs laid (Tennis, Basket Ball) by M/s MahesBupathi Foundation
- Karate coaching.

Total area for the play field is approx.. around 4,50,000 sqft.. The facilities available for sports and games in the College are furnished below:

| S. No. | Play Field Available | No. of Field | |
|---|---|---|---|
| 1. | **DETAILS OF THE OUTDOOR GAMES AVAILABLE :**<br><br>ATHLETIC TRACK -- | 1 | |
| | STANDARD 8 LANE WITH | 2 | |
| | STATDIUM | 2 | |
| | CRICKET FIELD | 1 | |
| | FOOTBALL FIELD | 3 | |
| | HOCKEY FIELD VOLLEYBALL | 1 | |
| | COURT BASKETBALL | 2 | |
| | BALL BADMINTON | 3 | |
| | TENNIS COURT  BADMINTON | 4 | |
| | HANDBALL | 1 | |
| | **DETAILS      OF      THE      INDOOR GAMES AVAILABLE** :<br><br>TABLE TENNIS | 2 | |
| | CARROM | 2 | |

| CHESS | 6 | |
|---|---|---|
| **DETAILS OF GYMNASIUM AVAILABLE :** GYMNASIUM (M) | 1 | |
| GYMNASIUM (W) | 1 | |
| | | |

*M – Men; W – Women

The Institute encourages the students to exhibit their talents during *Navarathri* Celebrations, *Pongal Vizha*, Holi festivel, annual day celebrations, Department level events, hostel day, Tamil Muthamizh mandram event etc. Following Clubs are available for enhancing the social and cultural awareness of the students.

| S.No. | Name of the club | Faculty I/C |
|---|---|---|
| 1. | Arts Club | Dr. J. Devishree Mr. S. K. Pradeep Mohan |
| 1. | Dramatics Club | Dr. M. Kaarthik Mr. J. Cyril santhosh Ms. R. Sandhiya |
| 1. | Muthamizhmandram | Dr. N. Nagaveni Mr. T. Ramraj Ms. R. Rajalakshmi |
| 1. | Film Club | Dr. V. G. Kalpana Mr. M. Maranco |
| 1. | Karate Club | Mr. P. Leeban joseph Ms. K. Harini |
| 1. | Yhai | Mr. P. Vinodhkumar |
| 1. | Literary Club | Dr. R. Azarudeen Mr. P. Muthusubramanian Ms. R. Sudha |
| 1. | Music Club | Mrs.G. Suganyapriyadharshini Mr. S. Karthik kumar |
| 1. | Nature Club | Ms. P. Rupa |

| | | Mr. P. Sivakumar |
|---|---|---|
| 1. | Photographic Club | Mr. M. Karthikeyan |
| | | Ms. E. Jayanthimani |
| 1. | Quiz Club | Mr. K. Karthik |
| | | Ms. A. Shantha Devi |
| 1. | IlamParavai | Dr.N.Nagaveni |
| | | Mr. T. Ramraj |
| | | Mrs.R. Rajalakshmi |
| 1. | Space club | Dr. C. P. Yoganand |
| | | Ms. M. Abitha Thangam |
| 1. | Sports club | Dr.R.Sambath |
| | | Mr. M. Manikandan |
| 1. | National service scheme | Dr.K.Marimuthu |
| | | Smt.A. Priyadharshini |
| | | Dr.k. Ganesamoorthi |
| | | Mr.C.BalajiAyyanar |
| | | Ms. E. Suganya |
| 1. | National cadet corps | Captain. E.Justin Ruben |
| 1. | Youth red cross | Dr.S.Balamurugan |
| | | Ms. P. BhuvanaJagadeeswari |
| 1. | Rotaract club | Dr.D.Prabakaran |
| | | Ms. V. Gowripriyaa |
| 1. | Road Safety Patrol | Mr. S. Gunasekaran |
| | | Smt.S.Priya |
| 1. | Entrepreneurship Development Cell | Dr.R.Maheswari |
| 1. | Kalam Knowledge Club | Dr. M. Mandhirasalam |

| File Description | Document |
|---|---|
| Any additional information | |
| link for additional information | |

**4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc**

**Response:** 16.07

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 18

| File Description | Document |
|---|---|
| Any additional information | |
| Number of classrooms and seminar halls with ICT enabled facilities | |
| Link for additional information which is optional | |

**4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.**

**Response:** 18.41

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year wise during the last five years (INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 297.72735 | 127.06584 | 226.78307 | 160.85249 | 168.73995 |

| File Description | Document |
|---|---|
| Details of budget allocation, excluding salary during the last five years | |

## 4.2 Library as a Learning Resource

**4.2.1 Library is automated using Integrated Library Management System  (ILMS)**

**Response:**

Name of the ILMS software: **AutoLib Software Systems**

(Library systems and services are fully automated by using AutoLib Software; a web based Library Automation Software. This facilitates automated library system and services including e-Gate register, circulation, biometric integration with circulation services, OPAC, Mobile OPAC, automated department library services, E-mail / SMS reminder).

Nature of automation (fully or partially): **Fully Automated**

(The Department of Library, CIT is established in the year 1956. It is located next to the main building in a vast area of 11650 sq.ft. (1254 sq.m.). The main objective of the CIT library is to provide information services and access to print and e-resources to support the scholarly and informational needs of the institute community.

The fully automated CIT library is well equipped with modern facilities and resources in the form of books, print and electronic journals, CD/DVDs and on-line databases etc. Open Access system is being followed in the library. Wi-Fi facility is also extended in the library besides internet facility in the digital library cum e-learning centre).

Version: **AEEDL 2.1** (Web - Advanced Enhanced Edition Plus Automation of Department Libraries)

Year of automation: **1997**

| File Description | Document |
|---|---|
| Any additional information | View Document |
| link for additional information | View Document |

**4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resource for library enrichment**

**Response:**

**Library**

- Availability of Books ( Titles and Volumes)    :More than Adequate
- Availability of Journals ( Hard/Soft )          :More than Adequate
- Reading Space                           :Sufficient
- Availability of library                    :Yes digital
- Number of Books issued per student against cards : Very Good

| File Description | Document |
| --- | --- |
| Any additional information | <u>View Document</u> |
| link for additional information | <u>View Document</u> |

**4.2.3 Does the institution have the following**

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases

**Any 4 of the above**

**Any 3 of the above**

**Any 2 of the above**

**Any 1 of the above**

**Response:** Any 4 of the above

| File Description | Document |
| --- | --- |
| Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc. | <u>View Document</u> |
| Any additional information | <u>View Document</u> |

**4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)**

**Response:** 20.38

4.2.4.1 Annual expenditure for purchase of books and journals year wise during the last five years (INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 14.71150 | 14.88994 | 16.32735 | 17.59489 | 38.36166 |

| File Description | Document |
|---|---|
| Details of annual expenditure for purchase of books and journals during the last five years | [View Document](#) |

**4.2.5 Availability of remote access to e-resources of the library**

**Response:** Yes

| File Description | Document |
|---|---|
| Any additional information | [View Document](#) |
| Details of remote access to e-resources of the library | [View Document](#) |

**4.2.6 Percentage per day usage of library by teachers and students**

**Response:** 12.23

4.2.6.1 Number of teachers and students using library per day over last one year

Response: 500

| File Description | Document |
|---|---|
| Details of library usage by teachers and students | [View Document](#) |
| Any additional information | [View Document](#) |

# 4.3 IT Infrastructure

**4.3.1 Institution frequently updates its IT facilities including Wi-Fi**

**Response:**

**Computer Labs:**

- No of Computers          : More than adequate
- Availability of Software   : Good
- Maintenance              : Satisfactory
- Power Supply             : Very Good ( 24 x7 – UPS line )
- Connectivity             : Excellent
- Down Time               : Occasionally
- Antivirus                :100 %
- Action:

A separate Computer Maintenance Cell (CMC) with two service engineers is available to attend to any problems relating to network and internet services. Efforts are being made to reduce the down time.

**INTERNET AND WI – FI:**

- Internet Bandwidth                 :150 and 200 Mbps – No download limit
- Accessibility of Wi – fi            :Good
- Reliability of Wi – Fi              : Good (90%)
- Availability of Supporting Staff    :Good

| File Description | Document |
|---|---|
| Any additional information | View Document |
| link for additional information | View Document |

**4.3.2 Student - Computer ratio**

**Response:** 1.84

| File Description | Document |
|---|---|
| Student - Computer ratio | View Document |

**4.3.3 Available bandwidth of internet connection in the Institution (Lease line )**
**<5 MBPS**

**5 MBPS - 20 MBPS**

**20 MBPS - 35 MBPS**

**35 MBPS - 50 MBPS**

**Response:** ?50 MBPS

| File Description | Document |
|---|---|
| Details of available bandwidth of internet connection in the Institution | View Document |
| Any additional information | View Document |

**4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)**

**Response:** Yes

| File Description | Document |
| --- | --- |
| Facilities for e-content development such as Media Centre, Recording facility,LCS | View Document |
| Any additional information | View Document |
| Link to photographs | View Document |

## 4.4 Maintenance of Campus Infrastructure

**4.4.1 Average Expenditure incurred on maintenance of  physical facilities and academic support facilities excluding salary component, as a percentage during the last five years**

**Response:** 88.59

4.4.1.1 Expenditure incurred on  maintenance of  physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 1174.49510 | 955.37198 | 997.88785 | 705.15780 | 755.13642 |

| File Description | Document |
| --- | --- |
| Details about assigned budget and expenditure on physical facilities and academic facilities | View Document |

**4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.**

**Response:**

CIT is situated in a serene surrounding encompassing a sprawling area of 69 acres with a built-up area of more than 5 lakh sq.ft. Physical ambience of the College is enhanced through the following measures:

**Enhancement of Physical Ambience**

- Laying of tar roads for connecting all the academic and hostel blocks
- Concrete gutters for drainage of water
- Concealed / underground systems for electrical cables
- Grass landscaping.
- Tree-cover to provide green-atmosphere
- Rainwater harvesting system with large capacity
- Stone-building with wall-hugging creepers
- Vehicle parking system

- Employees to maintain the cleanliness of the entire campus
- All laboratories, classrooms, hostels, staff quarters and other student amenities are protected with Earth Leakage circuit Breakers.
- Qualified technicians are employed in the laboratory, further trained to handle unforeseen situations like personal accidents, fire accidents.

The institute appoints staff for maintenance and repair of infrastructure facilities, services and equipment. These activities are carried out under the supervision of qualified senior faculty members, campus manager / campus engineer and the required manpower. Following are the facilities maintained through such systems

| No | Computing Lab | No. of Computers | Details of Software |
|---|---|---|---|
| 1. | Microsoft Products (OS, Office) | 325 | Operating System(Computing) |
| 1. | K7 end point Security | 325 | Anti-virus (Computing) |
| 1. | English Digital Language Laboratory | **70** | Orell Digital Language Lab Soft Café,  I-tell Premium 3 software |
| 1. | MCA Lab | 54 | Oracle 11G, Windows 7, MS C Reader, Visual Studio 2005, GC( Endpoint Security

(Computer Tech.andapplns) |
| 1. | Electronic Circuits Laboratory/Linear Integrated Circuits Laboratory | 10 | Cadence orcad ( ECE) |
| | | 22 | Multi Sim ( ECE) |
| 1. | Vlsi design laboratory/

Digital signal processing laboratory | 18 | Altium Designer ( ECE) |
| | | | Microwind Tool( ECE) |
| | | 10 | Cadence Tool ( ECE) |
| | | | Scilab 5.5.2 (open source) ( ECE |
| 1. | Embedded Systems Laboratory | 10 | KEIL PK51-ED SOFTWARE ( E

KEIL MDK-ARM-ED10  SOFT\ |
| 1. | Digital circuits laboratory | 7 | Altium Designer

Microwind Tool ( ECE) |
| 1. | Communication   systems laboratory | 5 | Netsim–Network Simulator ( EC |
| | | 5 | Scilab ( ECE) |
| | | 7 | NI Lab VIEW ( ECE) |
| 1. | Signal   processing   laboratory/wireless communication laboratory (pg) | 24 | Scilab 5.5.2 ( open source) ( ECE |

| 1. | RF, Fibre Optics lab./Networking Lab | 5 | Ansoft HFSS ( ECE) | |
|---|---|---|---|---|
| | | 1 | Netsim–Network Simulator ( EC | |
| | | 5 | Wireless Communication Netwo | |
| 1. | Research Laboratory | 5 | Lab view ( ECE) | |
| 1. | Laboratory and Project work | 10 Users | National Instruments –LABVIEV | |
| 1. | Laboratory and Project work | 50Users | MULTISIM – (EEE) | |
| 1. | Laboratory and Project work | 5 Users | PSIM 9.2  (EEE) | |
| 1. | Laboratory and Project work | 3 Users | MATHEMATICA – (EEE) | |
| 1. | Project work | 1 | X4SE – PSCAD – X4  Aca standalone license  (EEE) | |
| 1. | Laboratory and Project work | 25 Users | Microwind 3.5 – (EEE) | |
| 1. | Laboratory and Project work | 1 | MATLAB – Institutional License | |
| 1. | Laboratory and Project work | 1 | Trioz Tech(EEE) | |
| 1. | Laboratory and Project work | 1 | Trioz Linux RTOS (EEE) | |
| 1. | Laboratory and Project work | 1 | Tick RTOS – PIC Developmen (EEE) | |
| 1. | Laboratory and Project work | 1 | Motorola 6811 development with | |
| 1. | Laboratory and Project work | 1 | PIC Drivers-ID-20090804(EEE) | |
| 1. | Laboratory and Project work | 1 | SAR PIC Drivers-ID-20080422 ( | |
| 1. | Laboratory and Project work | 1 | SAR PIC –ID-20060125 (EEE) | |
| 1. | Laboratory and Project work | 1 | ZigBeeRF Module and interface | |
| 1. | Laboratory and Project work | 1 | Visual DSP (EEE) | |
| 1. | Laboratory and Project work | 1 | MP LAB – 5.60 (DIE) (EEE) | |
| 1. | Laboratory and Project work | 1 | Fire Bird Robotics (EEE) | |
| 1. | Laboratory and Project work | 1 | Universal Programmer(EEE) | |
| 1. | Laboratory and Project work | 1 | IAR Embedded workbench(EEE) | |
| 1. | Laboratory | 1 | 8051 starter kit(EEE) | |
| 1. | Laboratory | 1 | VPE Spartan 3A/3A DSP Boar A – FG 676 (EEE) | |
| 1. | Laboratory | 1 | ARM 2378 Controller Board (EE | |
| 1. | Laboratory and Project work | 1 | TRITON IDE (EEE) | |
| 1. | Laboratory | 1 | VLSI Coding Implementation Un | |
| 1. | Laboratory and Project work | 1 | Texas Instruments  C 2000 Micro | |
| 1. | Laboratory | 1 | Texas Instruments Stellaris So (EEE) | |
| 1. | Laboratory | 1 | Texas Instruments C 2000 laun | |

| | | | (EEE) | |
|---|---|---|---|---|
| 1. | Laboratory | 1 | Atmel - Xmega A1 Explained (E | |
| 1. | Laboratory | 1 | Free scale - Automated Guided V | |
| 1. | Laboratory | 1 | Intel Xeon Quad Core Server (E | |
| 1. | Process Modelling, Dynamics and Control Laboratory | 25 | Ansys 14.5(chemical) | |
| 1. | **Cloud and Virtualization Laboratory (L 103)** | 62 | - | |
| 1. | **Embedded and Digital Laboratory (L-202)** | 10 | - | |
| 1. | Web Programming and Compiler Laboratory (L 203 ) | 61 | - | |
| 1. | Network Programming and Distributed Systems Laboratory (L-210) | 60 | - | |
| 1. | Unix and Systems Laboratory (L-303) | 60 | - | |
| 1. | **Database Management Systems and Software Engineering Tools** Laboratory (L-308) | 64 | - | |
| 1. | **C Programming Laboratory I** (IT-201) | 60 | - | |
| 1. | C Programming Laboratory II (IT-202) | 60 | - | |
| 1. | **Data Structures and Algorithms and Automata Laboratory** (IT-203) | 70 | - | |
| 1. | **Microprocessor Laboratory (IT-207)** | | - | |
| 1. | **Project Laboratory-I (IT-208)** | 71 | - | |
| 1. | Project Laboratory- II (L-315) | 40 | - | |
| 1. | Surveying Laboratory | 2 | - | |
| 1. | Fluid Mechanics/Hydraulics Machinery Laboratory | 2 | - | |
| 1. | Strength of Materials Laboratory | 1 | - | |
| 1. | Highway Engineering Laboratory | 2 | - | |
| 1. | Geology Laboratory | 1 | - | |
| 1. | Computer Application Laboratory | 55 | - | |
| 1. | Environmental Engineering Laboratory | 3 | - | |
| 1. | Concrete Laboratory | 3 | - | |
| 1. | Soil Mechanics Laboratory | 3 | - | |
| 1. | Geo –informatics  Laboratory | 24 | - | |
| 1. | Civil Engineering Department | 3 | - | |

**Language Laboratory        :**

An open - access Language Laboratory equipped with audio interactive and multimedia enhanced learning packages, is available to hone communication

skills in English, French, German, Japanese, and Hindi. A sound-proof recording theatre is available in the laboratory to record voice messages and teaching materials.

| File Description | Document |
| --- | --- |
| Any additional information | View Document |
| link for additional information | View Document |

# Criterion 5 - Student Support and Progression

## 5.1 Student Support

### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

**Response:** 37.33

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 606 | 1729 | 1668 | 1260 | 1355 |

| File Description | Document |
|------------------|----------|
| Upload self attested letter with the list of students sanctioned scholarships | [View Document](#) |
| Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years | [View Document](#) |
| Any additional information | [View Document](#) |

### 5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

**Response:** 2.28

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 77 | 91 | 79 | 75 | 82 |

| File Description | Document |
|------------------|----------|
| Number of students benefited by scholarships and freeships besides government schemes in last 5 years | [View Document](#) |
| Any additional information | [View Document](#) |

**5.1.3 Number of capability enhancement and development schemes –**

1. **Guidance for competitive examinations**
2. **Career Counselling**
3. **Soft skill development**
4. **Remedial coaching**
5. **Language lab**
6. **Bridge courses**
7. **Yoga and Meditation**
8. **Personal Counselling**

**7 or more of the above**

**Any 6 of the above**

**Any 5 of the above**

**Any 4 of the above**

**Response:** 7 or more of the above

| File Description | Document |
| --- | --- |
| Details of capability enhancement and development schemes | [View Document](#) |
| Link to Institutional website | [View Document](#) |

**5.1.4 Average percentage of students benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years**

**Response:** 4.17

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 162 | 169 | 174 | 136 | 97 |

| File Description | Document |
|---|---|
| Number of students benefited by guidance for competitive examinations and career counselling during the last five years | View Document |
| Any additional information | View Document |

## 5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

**Response:** 12.85

5.1.5.1 Number of students attending  VET year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 595 | 410 | 474 | 402 | 390 |

| File Description | Document |
|---|---|
| Details of of students benefited by Vocational Education and Training (VET) | View Document |
| Any additional information | View Document |

## 5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

**Response:** Yes

| File Description | Document |
|---|---|
| Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee | View Document |
| Any additional information | View Document |
| Details of student grievances including sexual harassment and ragging cases | View Document |

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 48.55

5.2.1.1 Number of outgoing students placed year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 625     | 543     | 354     | 340     | 626     |

| File Description | Document |
|------------------|----------|
| Details of student placement during the last five years | View Document |
| Any additional information | View Document |
| Self attested list of students placed | View Document |

**5.2.2 Percentage of student progression to higher education (previous graduating batch)**

**Response:** 17.47

5.2.2.1 Number of outgoing students progressing to higher education

Response: 185

| File Description | Document |
|------------------|----------|
| Any additional information | View Document |
| Upload supporting data for student/alumni | View Document |
| Details of student progression to higher education | View Document |

**5.2.3 Average percentage of students qualifying in state/ national/ international level examinations during the last five years (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOFEL/Civil Services/State government examinations)**

**Response:** 78.09

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOFEL/Civil Services/State government examinations) year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 21      | 20      | 24      | 29      | 23      |

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOFEL/Civil Services/State government examinations) year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 31 | 25 | 30 | 36 | 28 |

| File Description | Document |
| --- | --- |
| Number of students qualifying in state/ national/ international level examinations during the last five years | |
| Upload supporting data for the same | |

## 5.3 Student Participation and Activities

**5.3.1 Number of awards/medals for  outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) during the last five years**

**Response:** 173

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 25 | 40 | 50 | 29 | 29 |

| File Description | Document |
| --- | --- |
| e-copies of award letters and certificates | |
| Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years | |

**5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution**

**Response:**

**Students Union**

To promote the cultural and social activity of the students, the students union is constituted in the Institute. The office bearers of the union are nominated by the Principal based on the meritorius performances. The student who ranks first upto third year autonomous examination becomes the chairperson of the union and the student who ranks first upto second year examination becomes the secretary.

The students are actively involved in the co-curricular and extra curricular activities.

1. NATIONAL SERVICE SCHEME (NSS)

2. NATIONAL CADET CORPS (NCC)

3. YOUTH RED CROSS

4. ROAD SAFETY PATROL

5. SPORTS CLUB

6. MUTHAMIZH MANDRAM AND ILAMPARAVAI

7. LITERARY CLUB AND SHRISHTI

8. DRAMATIX CLUB

9. MUSIC CLUB

10. ROTARACT CLUB

11. NATURE CLUB

12. QUIZ CLUB

13. KARATE CLUB

14. PHOTOGRAPHY CLUB

15. ARTS CLUB

16. SPACE CLUB

17. FILM CLUB

18. YHAI

19. KALAM KNOWLEDGE CLUB

## Departmental Association Activities

All the Departments have their own associations which organize technical meetings, symposia, seminars and workshops in their respective disciplines.

The students are also involved in various academic and administrative bodies of the institution such as

Class and Department Advisory Committee

Planning and Evaluation Committee

Student Welfare & Extra Curricular Activities Committee

Academic council – Student members

Hostel Committee

Anti-ragging Committee

| File Description | Document |
| --- | --- |
| Any additional information | [View Document] |
| Link for Aditional Information | [View Document] |

### 5.3.3 Average number of sports and cultural activities / competitions organised at the institution level per year

**Response:** 87.8

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 93 | 100 | 86 | 78 | 82 |

| File Description | Document |
| --- | --- |
| Number of sports and cultural activities / competitions organised per year | [View Document] |
| Any additional information | [View Document] |
| Report of the event | [View Document] |

## 5.4 Alumni Engagement

**5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years**

**Response:**

Coimbatore Institute of Technology, Coimbatore has a **functional** alumni association. The mission of the Association is to foster strong bonds between alumni, students of CIT and the Institute, and create a network enabling them to remain engaged with their alma mater. Its activities and major contributions for institutional, academic and infrastructure development are

- **Student-Alumni Contact**: Support current students through different mentoring opportunities either by being a part of on-campus lectures or motivation through an in-person or online commitment; provide internships; recruit fresh graduates; present career programs, etc.
- **Events and Reunions**: The Association organizes and facilitates a host of events every year at CIT Coimbatore. This includes the **OSAN** Day which is held on the second Saturday of March of every year, the **Silver Jubilee Reunion, Golden Jubilee Reunion.** Alumni are also invited to campus events like Association activities, Guest lectures, International Conferences, Technical workshops and Symposiums, Faculty development training, placement training etc., Convocation Day, and other cultural events on Campus.
- **The alumni are invited as expert members and advisors in various levels of committees that support the welfare of the institution.**
- **Geographic Alumni Chapters**: Activities of the Association are not just limited to the campus, and there are thriving city chapters that organize events. Oman and US chapter and other worldwide chapters provide opportunities to renew old friendships and start new ones.
- **Financial Support by Alumni**: The Student scholarship is additionally given by past students (alumni) of the Institute to its present students and thus building a Budding Bright Engine.The Alumni of 1995 batch contributed funds in the development of the infrastructure of the institute. Alumni of 1995 batch contributed an amount of Rs.5, 00,000 towards the construction of ARCH in front of the college.
- **Awards and Prizes by Alumni:** To encourage the academics, every year the **Best project award and Endowment Prizes for the present students are given by the alumni.**
- Alumni are involved as BoS members.

- **The Association also organized the CIT AL – PRO on August 13th,14th and 15th 2010, the exhibition of the products of Alumni of CIT Institutions to commemorate the Golden jubilee Year of CIT Alumni Association (OSAN). Over 58 stalls with various exhibitors such as AC Design Services, Flow Tech Engineers, Power Systems, etc exhibited their products which paved way for better networking among CIT alumni entrepreneurs as well as organizing various events to meet the industrial requirements, aspiring entrepreneurial skills and inculcate leadership qualities for the future growth of entrepreneurship among the present students. Further Alumni help the students in their placement activities. The Alumni visit CIT they are requested to give motivational lectures. The lectures may be technical or sometimes it may be soft skill development. Alumni from various departments help the student to aspire for higher studies, by organizing special coaching for appearing in GATE**

**exams. The expenses incurred are borne by the department and the institute.**
  * **The institute has celebrated a number of silver and Golden jubilee reunion. Annual General Body meeting is conducted once in every 2 years.**

| File Description | Document |
|---|---|
| Link for Additional Information | [View Document]() |

**5.4.2 Alumni contribution during the last five years (Amount in rupees)**
**<2 Lakhs**

**2 Lakhs - 5 Lakhs**

**5 Lakhs - 10 Lakhs**

**10Lakhs - 15 Lakhs**

**Response:** 10Lakhs - 15 Lakhs

| File Description | Document |
|---|---|
| Alumni association audited statements | [View Document]() |
| Any additional information | [View Document]() |

**5.4.3 Number of Alumni Association / Chapters  meetings held during the last five years**

**Response:** 14

5.4.3.1 Number of Alumni Association /Chapters meetings held year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|
| 4 | 2 | 3 | 4 | 1 |

| File Description | Document |
|---|---|
| Number of Alumni Association / Chapters meetings conducted during the last five years. | [View Document]() |
| Any additional information | [View Document]() |
| Report of the event | [View Document]() |

# Criterion 6 - Governance, Leadership and Management

## 6.1 Institutional Vision and Leadership

**6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution**

**Response:**

1. **GOVERNANCE OF THE INSTITUTION**

**VISION**

The Institute strives to inculcate a sound knowledge in engineering along with realized social responsibilities to enable its students to combat the current and impending challenges faced by our country and extend their expertise to the global arena.

**MISSION**

The mission of CIT is to impart high quality education and training to its students to make them world-class engineers with a foresight to the challenges and problems, and pioneers to offer innovative solutions to benefit the nation and the world at large.

**COIMBATORE INSTITUTE OF TECHNOLOGY** was started in the year 1956 by V.Rangasamy Naidu educational trust (VRET). The philanthropic founders of the trust are Sri.V.Rangasamy Naidu, Sri.R.Venkatasamy Naidu and Prof.P.R.Ramakrishnan. The Institute is currently affiliated to Anna University, Chennai and approved by AICTE, New Delhi. The Institute was accredited by NBA in 2005, 2009 and 2016.

The Institute is governed by the governing council composed as per guidelines laid down by UGC and AICTE.

The Governing Council is responsible to determine the future direction, oversee the Institution activities and foster an environment in which the mission and vision of the Institution are achieved. The responsibility includes considering and approving the strategic plan of the Institute. The strategic plans set out the academic aims and objectives of the Institution and identify the financial, physical and staffing requirements to achieve these objectives. The Council oversees the creation and delivery of the strategic vision consistent with the mission of the institution. At the Institute level, a team comprising the Head of the Institution, Heads of the departments and senior faculty members shall formulate a draft strategic plan. This is discussed and approved by the governing council with suitable modifications if found necessary. The strategic plan is reviewed after three years.

The Governing Council shall ensure that there exists a clear and well established audit procedure for all the financial aspects of the Institution. The Council is responsible to monitor performance of the Institution against plans and approved key performance indicators which are appropriately bench marked.

The Council is responsible to appoint the Head of the Institution as per guidelines stipulated by Government of Tamilnadu and AICTE. Based on the recommendation of the Principal, Council appoints

suitable faculty mentors to the following positions:

- Deans
- Administrative Officer
- Heads of Departments
- Controller of Examinations

The Council reviews the performance of managerial / administrative positions in the Institute periodically.

The Council discusses the implementation of proposals considered earlier and seeks explanation from the Principal regarding the lapses if any.

The Council studies the performance of the students in the examinations and suggests ways and means to improve the performance of the students in future.

The Council reviews the placements activities in the preceding academic year and makes suggestions to improve employment opportunities for the students.

The Council ensures that a policy is in place regarding human resource development and employment in the Institution as per AICTE / State Government norms.

The Governing Council initiates activities to create and support global national and local collaborations between Institution and academic partners, research and industry who support the mission and objectives of the institution.

Based on the recommendation of the Academic Council, the Governing Council approves the Institution of scholarships, fellowships, medals, prizes and certificates.

The Council considers and approves the request of the Institution to start new programmes of study leading to degree / diploma.

Two members of faculty are nominated as members to the governing council by the Principal based on their seniority. The tenure of the faculty members is for a period of 3 years. The Governing Council meets at least twice a year.

The Governing Council publishes an annual report every year. The minutes of the council are available on the website of the college.

The faculty members are involved as members of the following important statutory and regulatory bodies functioning in the Institute.

- Academic Council
- Boards of studies
- Ombudsman Committee
- Grievance Redressal cell
- Women Empowerment cell
- Committee to enquire into sexual harassment

**6.1.2 The institution practices decentralization and participative management**

**Response:**

1. **PRACTICE OF DECENTRALISATION AND PARTICIPATIVE MANAGEMENT IN THE INSTITUTION:**

The management of the Institute has taken several initiatives to decentralise the decision making authority and involve senior faculty members to participate in the management of the Institute. Accordingly, in addition to the positions of Heads of the departments, the following posts of deans have been created. The Principal is assisted by the Heads of departments and the Deans in managing the activities of the Institute. The duties and responsibilities of various deans are as following:

**Dean-Student Affairs, Estate Maintenance and Alumni association activities (AO)**

- Assisting Principal on Legal matters
- Maintaining a ragging free campus
- Ensuring discipline among students inside & outside the institute.
- Conducting enquiries of students indulged in activities of indiscipline
- Organizing student counseling and other related activities
- Liaising with parents /guardians

**Dean-Planning**

- Expansion of academic programs as per the directions of GC through Principal
- Preparation of Institutional Developmental Proposals (IDP) as per the road map viz., TEQIP,QIP,NIRF,TLC,Incubation Centers, etc.,
- Reporting establishment requirements
- Handbook preparation
- Maintenance of CIT website

**Dean-Academic**

- Curriculum development as per guidelines
- Preparation and execution of Academic Council activities
- Coordinating Boards of Studies activities
- Preparation of syllabus book
- Supervising UMS activities

- Anna University, AICTE, NBA UGC– Affiliation and approval process in coordination with Administrative coordinator
- Organizing Continuing Education Programs

**Dean-R&D and Industry Collaboration**

- Propagating awareness on latest technical developments to the faculty and staff
- Coordinating sponsored research work and consultancy activities of faculty members
- Managing IIPC

- Preparation of annual reports on  research, consultancy and  Patenting
- Carrying out activities relating to MoUs

## Dean-Extracurricular and Inter college activities

- Selection of Office bearers for students union
- Organizing and conducting club activities
- Planning and coordination of all Inter college activities

## Dean- Placement and Training (Placement Officer)

- Managing the placement office including accounts
- Conducting orientation programs to all students to create awareness about placement process
- Arranging pre-placement talks
- Setting guidelines for inviting companies to participate in recruitment process
- Arranging and Managing coaching classes for GATE,TOEFL,GRE and finishing schools

## Dean - Academic & research resource assistance (Librarian)

- User Services
- Technical Services
- Administration Services

## Dean - Exams

- Plan and schedule of end semester examinations as per the dates defined in the academic calendar
- Organize setting of question papers (as per OBE), scheme of evaluation, scrutiny of question papers, printing of question papers and stationary items.
- Appointment of Chief Superintendent, Invigilators and Examiners for evaluation of answer scripts
- Conduct of End Semester /Arrear Examinations and arrange for valuation
- Arrange for result passing board meetings
- Compilation and publication of exam results.
- Liaising with Controller of Examinations, Anna University for relevant matters
- Conduct of Internal and External Academic Audits
- Conduct commencement ceremony function
- Organizing all Academic /Grievance redressal body meetings relating to autonomous functioning.
- Preparing course completion certificates
- Dispatching degree certificates to the students

## Head of the Department

The Head of the Department shall be responsible for the entire working of department under the supervision by the Principal:

- Ensuring High academic standards and Teaching – learning process
- Testing and Consultancy services
- Interaction with Industry and Society
- Continuing education activities

- Students counseling & interaction and monitoring of TWM
- Conduct of stakeholders meetings periodically at the departmental level as required by OBE.

**Case study**

The process of filling up vacant position of the faculty members in the Institute normally used to take about 4 to 6 months. After the appointment of Dean-Planning, the process of identifying vacant positions, insertion of advertisements in newspapers, organising interviews to select faculty members out of the short listed candidates and issuing appointment orders (after getting formal approvals from competent authorities) to selected persons is carried out within a period of 3 months.

| File Description | Document |
|---|---|
| Any additional information | [View Document](#) |

## 6.2 Strategy Development and Deployment

### 6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

**Response:**

1. **STRATEGIC PLAN AND DEPLOYMENT DOCUMENTS**

Strategic Plan involves setting goals, determining actions to achieve the goals and mobilising resources to execute the actions.

The important components of strategic plan are:

1. Determination of where we are by conducting internal and external audit & SWOT.
2. Identification and Prioritising the issues involved
3. Statement of expected objectives
4. Delineation of strategies, action plans and budget and allocation of time, human capital and money to achieve the objectives
5. Periodic reviews of the process and refinements if found necessary

A graphical representation of Development of strategic Plan for the Institution is given as in next page.

**Strategic Plan Statement for the Institution Target Date: 2020**

- Become a leading technological Institution, ranked among the top 10 of National Institutional Ranking Framework (NIRF), initiated by MHRD, Govt. of India
- Incubate successful start-ups creating innovative products and business models through Business Incubation center established in CIT
- Earn recognition among students and research scholars that CIT is a 'happening' campus
- Provide a stimulating work environment for faculty and staff, where teaching and research and hard work are recognized and rewarded

- Be a model Institute in terms of sustainability, usage of energy and water inside the campus
- Intensify the involvement of alumni in all aspects of the Institute's development
- Improving the quality of research and consultancy activities
- Implement strategically focused, cost-effective enhancements to the infrastructure in support of research, scholarship and creativity

**Details regarding implementation of improving the quality of research and consultancy activities**:

The aim of the management is to have all faculty members with Ph.D qualification. In line with this aim, young faculty members are encouraged to register for Ph.D either with supervisors available in CIT or outside the Institute. The faculty members are motivated to apply for funds for research projects to organizations like AICTE, DST, DRDO etc. The fees to be paid to the university by faculty members who have registered for Ph.D programme are reimbursed by the Institute through Technical Education Quality Improvement Programme (TEQIP) fund. When faculty members undertake travel to present research papers in conferences within India, the entire cost is borne by the Institute. When faculty members go to present papers in conferences outside India, partial grants are given to them by the Management. To meet the balance expenses, the faculty members are advised to apply for 'Travel Grant' to agencies like UGC and AICTE.

Further, faculty members are permitted to go to reputed Institutions either within India or overseas to take up Post-doctoral research in current areas. To cite a case in this regard, Dr.L.Sarvanan, Associate Professor in Electrical and Electronics Engineering Department was deputed to Tampere University of Technology, Finland to carry out Post doctoral research in the area of 5G related wirless communication for a period of 6 months with full salary. Subsequent to his rejoining the Institute Dr.L.Saravanan and Dr.S.Elango were deputed to Germany to attend a Summer School on '5G Technology' for a period of 10 days.

Dr.L.Saravanan is involved in setting up a research laboratory '5G Innovative Centre' in the Institute using funds available from TEQIP. As and when this laboratory is set up (possibly by January, 2018), it will be one of the very few laboratories in India devoted to research on 5G Technology. Dr.L.Saravanan also has plans to conduct short term training programmes on 5G Technology to faculty members of other Institutions and Industry engineers.

The Institute has entered into MoUs with many Institutions / Organisations to conduct research in areas of common interest. Some of the important MoUs involving Research Component are given below:

1. **Western Norway University of Applied Sciences (formerly Bergen University), Norway**

To cooperate in furthering the development of Institutions, Specially, with regard to academic programmes and research

1. **Loughborough University, UK**

   1. Collaborative teaching including joint training and supervision of Masters and Ph.D degree students
   2. Collaborative research

1. **Oklahoma State University, Oklahoma, USA**

1. Exchange scholars and faculty members for teaching and organising scientific and technical meetings and research activities.

1. **Texas Tech University, USA**

To Cooperate with regard to academic programs and research activities

1. **University of Wyoming, USA**

1. Exchange of  Faculty Members and Students
2. Cooperation in teaching and research programs

1. **Samsung India Software Operations Pvt.Ltd, Bengaluru**

1. Participate in the development of curriculum
2. Participation of faculty members and students in 'Research Projects' relating to product Developments

All the above statements indicate that most of the faculty members are under- taking Research as one of the important aspect of their duties.

| File Description | Document |
| --- | --- |
| Any additional information | [View Document](#) |

**6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism**

**Response:**

1. **ORGANISATIONAL STRUCTURE OF THE INSTITUTION**

The activities of the Institute are guided, monitored and controlled by the Governing Body through the Principal (Head of the Institution) who is ex-officio Secretary of theGoverning Council.

The organisational Structure is better explained by the diagram given in the additional information.

The functioning of the Governing Council, the apex body formulating policies and guiding the activities are already presented in section 6.1.1

The functions of the Deans and Heads of departments are as well presented in section 6.1.2

Since Coimbatore Institute of Technology is a Government Aided Institution, the service rules, procedures, recruitment, and promotional policies are controlled by the Director of Technical Education, Government of Tamilnadu.

**Some of the important aspects of service rules, recruitments and promotional policies are given below**:

The Institution also runs certain programmes with due approval from competent authorities on self supporting pattern without receiving any grant from the Government. Most of the service rules applicable for teachers of aided programmes are applicable to the teachers of self-supporting programmes.

**Recruitment and Promotion procedures:**

The Service rules of the employees of the Institution are specified in the Grant-in-Aid code formulated by the Government of Tamilnadu. Recruitment of faculty members (as per the sanctioned strength for each department) is carried out by obtaining a list of candidates from the Employment Exchange as well as through advertisement in Newspapers. The interview for faculty positions is conducted by a panel of members consisting of Principal, Management Representative, Government Nominee, AICTE Nominee, University Nominee, Subject Expert as well as the Head of the Department. The Candidates selected for the post are allowed to join the Institute after getting due approval from the Director of Technical Education.

The Promotion to next higher positions is also carried out through open competition where in candidates from outside the Institution as well in response to advertisements in Newspapers competes with internal candidates already serving in the Institution.

**Grievance Redressal System**

The Grievance Redressal System in the Institution consists of the following:

There is an 'Ombudsman' Committee functioning in the Institute to attend to the grievances of faculty members and staff as and when complaints of grievance are received. The Ombudsman Committee has seven senior faculty members headed by a retired professor of the Institute. The list of members of this committee is available in the Institute website and Calendar & Hand Book.

To attend to the grievances of students two types of grievance redressal are available, one is Tutor-Ward System and the other is Appeals and Grievances Committee.

For every 20 student one faculty member is allotted as Tutor and for each programme, the Head of the Department is the Chairman Tutor. Tutor Ward meetings are conducted during a specified period (as provided in the class work Time Table) each week. The students can convey their grievances (generally academic and sometimes personal) to the Tutor. The Tutor in turn will inform the Principal / Head of the Department / Hostel warden and try to get the grievance redressed to the extent possible.

The Appeals and Grievances committee consists of two external faculty members, Controller of Examinations and one senior faculty member. This committee is headed by the Principal. Whenever a complaint is received from a student / group of students regardingacademic and non-academic issues, the committee makes enquiries with the persons involved and finds a solution to address the grievances. The list of members of this committee is available in the website of the Institution.

| File Description | Document |
|---|---|
| Any additional information | View Document |

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**6.2.3 Implementation of e-governance in areas of operation**

    1. **Planning and Development**
    2. **Administration**
    3. **Finance and Accounts**
    4. **Student Admission and Support**
    5. **Examination**

**All 5 of the above**

**Any 4 of the above**

**Any 3 of the above**

**Any 2 of the above**

**Response:** All 5 of the above

| File Description | Document |
|---|---|
| Details of implementation of e-governance in areas of operation Planning and Development,Administration etc | View Document |

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**6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions**

**Response:**

    1. **List of committees**

There are many committees / cells existing in the Institute assigned with different tasks. The most important committees / cells are given below.

    1. Academic Council
    2. Standing Committee
    3. Research Board
    4. Results Passing Board
    5. Finance Committee
    6. Academic Audit Committee
    7. Student Welfare and Extracurricular activities Committee
    8. Library Committee

9. Curriculum Development Cell
10. Planning and Evaluation Committee
11. Students Attendance Monitoring and Recommendations Committee
12. Appeals and Grievances Committee
13. Ombudsman Committee
14. Women Empowerment Cell
15. Committee to enquire about Sexual Harassment
16. Examination Disciplinary Committee

Some of the committees meet periodically to carry out the tasks while other committees are called to function as and when necessary. The minutes of the meeting conducted are maintained in separate registers. Practically, all the resolutions passed in the committees and recorded in the minutes are carried out / implemented subsequently.

The following are some of the resolutions passed in the meetings pertaining to the Committees indicated there in and implemented subsequently.

**Standing Committee**

Minutes of Twenty Third meeting of the Standing Committee; Dated 27-01 1988

**ITEM NO: 5**

Resolved and it be a recommendation to the Academic Council for approval the **introduction of transparency in the Autonomous Examination system** with effect from April 1998 Autonomous Examinations as per the following procedure.

In the scheme that is proposed to be implemented for all the theory subjects, the students will be given a **chance to go through their valued answer scripts** of all the papers for which the candidates have appeared in the examination at a nominal fee. After going through the valued answer scripts the students will be able to decide whether to apply for revaluation or not and take the necessary steps accordingly. The modalities of carrying out this process and the fees to be collected are being worked out.

**Academic Council**

22nd meeting of the Academic Council Dated:**23-05-2008**

**ITEM NO: 1**

It was resolved that **special supplementary examination** could be conducted for all the theory subjects of final semester of all courses. This is applicable only for the outgoing students of current academic year 2008-2009 and subsequent batches. This is not applicable for students of previous batches.

**Academic Council**

24th Meeting of the Academic Council: Dated **24-05-2010**

**ITEM NO:  3**

1. Students have to study only 2 subjects along with the Project Work in the VIII semester.
2. Those students who have a CGPA of 9 and above upto 4th semester will have the option of choosing three subjects (out of the 5 subjects in VIII semester) in V, VI and VII semesters along with the regular subjects.
3. Practicals, if any, in the final year are to be completed in the VII semester itself.

**Students Welfare AndExtra Curricular Activities Committee**

19th meeting of the Students Welfare and Extra Curricular Activities committee**Dated 08-04-2013**

1. "Autonomous Question Papers" of April 2012 (686 nos.) and Nov. 2012 (685nos.) sessions (All UG and PG) have been scanned and uploaded in the **Library OPAC**. These can be browsed and downloaded anywhere within ourcampus.

23rd meeting of the Students Welfare and Extra Curricular Activities committee**Dated 14-09-2015**

1. Road Safety Patrol (RSP) will help the traffic movement in front of the collegeand at other places.

24th meeting of the Students Welfare and Extra Curricular Activities committee**Dated 31-03-2016**

1. **Wi–Fi facility** shall be made available to the students from 6.00 am to 9.00 am and 6.00 pm to 10.00 pm.

| File Description | Document |
| --- | --- |
| Any additional information | [View Document](#) |

## 6.3 Faculty Empowerment Strategies

**6.3.1 The institution has effective welfare measures for teaching and non-teaching staff**

**Response:**

1. **WELFARE MEASURES FOR TEACHING AND NON-TEACHING STAFF:**

The Institute authorities bear in mind that the well being of teaching and non-teaching staff is important for effective functioning of the Institute. In line with this, many welfare measures have been implemented.

1. A 'Thrift Society' is functioning in the Institute to offer loans to needy staff at reasonable interest rate.

2. A full fledged dispensary is located within the campus. A male Pharmacist and lady pharmacist are available during working hours on all days. Two doctors (one gentleman and one lady) visit the dispensary for three days every week. Staff members can visit the Dispensary for medical help. Basic medicines are provided free.

3. The wards of the staff are given admission to B.E degree course/Diploma course based on merit from out of management Quota sanctioned by Govt. of Tamilnadu.

4. The teaching staff of the Institute have a 'Faculty Club' wherein all members of faculty are members of the club. They conduct cultural programmes and have an annual get together with the family members.

The non-teaching staffhave an Association which organises certain holiday trips for the members. Faculty club and Non-teaching staff Association represent their grievances to the management and seek redressal.

1. Full fledged canteen and small kiosks are available in the campus to provide food and snacks at reasonable price to the staff and students.

2. Indian Bank (one of the Nationalised Bank) Peelamedu Branchis located in the campus to cater to the banking needs of the staff and students.

3. The Auditorium and Conference Hall of the Institute are made available to the family functions of the staff conducted during holidays and outside office hours.

## 6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years

**Response:** 16.07

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 37      | 37      | 51      | 60      | 40      |

| File Description | Document |
|------------------|----------|
| Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years | [View Document](#) |

## 6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

**Response:** 51.2

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 24 | 70 | 68 | 59 | 35 |

| File Description | Document |
|------------------|----------|
| Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff | View Document |

### 6.3.4 Average percentage of teachers attending professional development programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programme during the last five years

**Response:** 33.97

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 84 | 119 | 104 | 117 | 57 |

| File Description | Document |
|------------------|----------|
| Details of teachers attending professional development programs during the last five years | View Document |

### 6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

**Response:**

1. **Performance appraisal system for teaching and non-teaching staff**

A good performance management system works towards the improvement of the overall organisational performance of teams and individuals for ensuring the achievements of the overall organisational mission and vision. An effective performance management system plays a crucial role in managing the organisation in an efficient manner. In line with this, the Institute is following the appraisal scheme suggested by AICTE viz. Performance Based Appraisal System (PBAS). In this scheme, the performances are classified into three categories

1. Teaching, Learning and Evaluation related activities
2. Co-Curricular, Extension and Professional Development related activities

3.Research Publications and Academic Contributions

The following weightages are assigned to these categories: 100:75:300. These are called Academic Performance Indices (API). At the end of each academic year, the data pertaining to the above categories are collected from each facultymember in the proformasuggested by AICTE. Based on the data collected, API scores are calculated for each of the three categories. The Principal in consultation with senior Professors fix certain minimum API scores to be achieved by the faculty members in the three categories.

These scores are used for the award of career advancements to faculty members and for promotion to next higher position.

Further, at the end of each semester, feedback forms are issued to the students for each of the courses attended by them. The feedback forms in the form of questionnaire collect information about the teacher and different aspects pertaining to the teaching process. A team consisting of the Head of the Department and Senior Professor in the Department, goes through the feedback forms collected from the students and suggest suitable measures to improve the teaching-learning process.

As such there is no performance appraisal system followed for non teaching staff in the institute. It is proposed to formulate a scheme in this regard shortly.

| File Description | Document |
|---|---|
| Any additional information | [View Document](#) |
| Link for Additional Information | [View Document](#) |

## 6.4 Financial Management and Resource Mobilization

**6.4.1 Institution conducts internal and external financial audits regularly**

**Response:**

**6.4.1 Internal and External Financial Auditing**

Coimbatore Institute of Technology being a Government Aided Institution, the external audit for Government Aided programmes is carried out by Local Fund Audit Wing of Government of Tamilnadu. The Local Fund Authority carries out the auditing once in 2 or 3 years depending on the availability of staff in their Department. Auditing of accounts for the years 2011-12, 2012-13 and 2013-14 was carried out in the year 2016. Auditing of accounts for the year 2014-15 was carried out in November 2017. Once in 5 years or so, staffs from Accountant General's office are deputed to check the accounts scrutinized by Local Fund Audit, in a random manner.

Internal Financial Audit of funds pertaining to self supportingprogrammesis carried out by the Auditor of V.Rangasamy Naidu Educational Trust running Coimbatore Institute of Technology. The Account section maintains the accounts for self supportingprogrammes as per the direction and guidelines of the Auditor.

| File Description | Document |
| --- | --- |
| Any additional information | View Document |

**6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III)**

**Response:** 777.93

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year wise during the last five years (INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| --- | --- | --- | --- | --- |
| 398.2 | 112.3 | 75.98 | 61 | 130.45 |

| File Description | Document |
| --- | --- |
| Details of Funds / Grants received from non-government bodies during the last five years | View Document |
| Annual statements of accounts | View Document |

**6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources**

**Response:**

**6.4.3 Institutional Strategies for mobilization of funds and optimal utilization of resources**

The Institute generates funds by encouraging faculty members to take up design consultancy works. Further, testing of material in the Institute Laboratories is undertaken to cater to the needs of Government Agencies as well as private industries. A part of the income obtained from the design consultancy and testing material in the laboratories is paid to the faculty members and other staff involved in the work. The faculty members are motivated to apply for grants to Government organizations like AICTE, UGC, Department of Science and Technology, IRDO for research projects as well as for modernizing the laboratories. Whenever, any short fall in funds is encountered in organizing academic programmes like conduct of Conference, Seminar, Symposium, the management extends a helping hand to meet out the short fall.

All the funds received from various agencies are audited initially by the Auditors of V.Rangasamy Naidu Educational Trust and later by Local Fund Auditors appointed by the State Government.

## 6.5 Internal Quality Assurance System

**6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes**

**Response:**

1. **Internal Quality Assurance System**

   1. Internal Quality Assurance Cell (IQAC)

The existence and development of an Institution require the availability of Internal Quality Assurance Cell (IQAC). The following is the objective of IQAC:

To develop a system for conscious, consistent and enhanced actionto improve the academic and administrative performance of the Institution.

CIT has been continuously endeavoring to improve the quality and performance of different aspects viz. Teaching - learning process, evaluation schemes, opportunities for Extra Curricular activities, Research over the years in an informal manner. Issues encountered in recent years and the need to inform the public about the merits of our Institution have led us to establish a formal IQAC.

The following committees have been formed.

1. Academic Process Committee
2. Procurement Committee
3. Operating Expenses Committee
4. Academic Audit Committee

The Academic Process Committee plans and approves the following activities:

1. Deputation of faculty members to attend STTPs/Workshops/FDPs etc.
2. Organise STTPs/FDPs/Workshops
3. Academic activities for the benefit of the students

The Procurement committee is concerned with scrutiny and approval of the proposals submitted by the Departments and placing orders for procuring equipments etc.

The operating Expenses Committee plans and approves the budget allotment for consumables, office expenses, travel expenses etc.

Academic Audit committee, at present, is concerned with scrutiny of question papers, regarding balanced coverage of syllabus and difficulty levels, award of sessional (internal) marks by faculty members as per stipulated norms and fair Evaluation of Answer Scripts.

The members of faculty serving in these committees are given below:

| S.No | Name of the Committee | Name of the Committee Members |
|------|----------------------|-------------------------------|
|      |                      |                               |

| 1 | IQAC-Procurement Committee | Dr.N.Muthukumarasamy<br><br>Dean (R&D and Industry Collabration) | |
| | | Dr.M.Thirumarimurugan<br><br>Dean (Extra Curricular and Inter College Activities) | |
| | | Dr.T.Sridhar<br><br>Professor/ Mechanical Engineering | |
| 2 | IQAC-Academic Committee | Dr.G.Sureshkannan<br><br>Nodal Officer Academic - TEQIP-III<br><br>Associate Professor,<br><br>Department of Mechancial Engineering | |
| | | Dr.K.Divakar<br><br>Associate Professor,<br><br>Department of Civil Engineering | |
| | | Dr.S.Suja<br><br>Associate Professor<br><br>Department of Electrical and Electronics Engineering | |
| | | Ms.P.Chitra<br><br>Associate Professor<br><br>Department of Electronics and Communication Engineering | |
| | | Dr.M.Rajalakshmi<br><br>Associate Professor,<br><br>Department of Computer Science and Engineering | |
| | | Dr.D.Prabhakaran<br><br>Associate Professor<br><br>Department of Chemical Engineering | |
| 3 | IQAC-Operating Committee | Dr.V.Selladurai<br><br>TEQIP-III, Head | |
| | | Dr.V.Manikandan | |

| | | TEQIP-III Coordinator | |
| | | Dr.T.Balakumaran | |
| | | Nodal Officer Finance - TEQIP-III | |

As a result of the IQAC initiatives the following practices have been institutionalised:

1. Applications submitted by faculty members to attend Workshop/ STTP are Scrutinised by the committee and the faculty member handling the subject relating to the STTP is deputed to attend the Programme. Earlier, seniority of faculty member was given preference.
2. Purchase of equipments is regulated by the committee consisting of faculty members from CIT as well as outside the Institution. This has resulted in the procurement of equipments without any one leveling allegations about the purchase procedure.

| File Description | Document |
| --- | --- |
| Any additional information | View Document |

**6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms**

**Response:**

The Teaching Learning processes are reviewed and discussed periodically in the Academic Council meetings and Result Passing Boards of the Institute. Modifications to be adopted in the teaching learning and evaluation processes to improve the performances of the students are deliberated.

**Two Examples:**

1. Assessment of Laboratory subjects is carried out with greater weightage for the performance during regular classes and less weightage for final examination.
2. Separate coaching classes outside regular working hours are conducted for students with arrears subjects. This scheme helps the students to clear the arrears early.

**6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year**

**Response:** 34.2

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 0 | 0 | 171 | 0 | 0 |

| File Description | Document |
|------------------|----------|
| Number of quality initiatives by IQAC per year for promoting quality culture | View Document |
| IQAC link | View Document |

**6.5.4 Quality assurance initiatives of the institution include**

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
2. **Academic Administrative Audit (AAA) and initiation of follow up action**
3. **Participation in NIRF**
4. **ISO Certification**
5. **NBA or any other quality audit**

**Any 4 of the above**

**Any 3 of the above**

**Any 2 of the above**

**Any 1 of the above**

**Response:** Any 4 of the above

| File Description | Document |
|------------------|----------|
| Details of Quality assurance initiatives of the institution | View Document |
| Any additional information | View Document |
| e-copies of the accreditations and certifications | View Document |

**6.5.5 Incremental improvements made during the preceding five years** *(in case of first cycle)* **Post accreditation quality initiatives** *(second and subsequent cycles)*

**Response:**

Incremental improvements made:

The progress made by the students is communicated to the parents each semester. Many times the information does not reach the parents. To obviate this, Parents are requested to come on a particular day and the principal meets them in person. Any clarifications sought by the parents regarding academic progress, conduct of the ward in the college and Hostel are provided by the Institute Authorities. By this procedure, the parents are motivated to follow the academic progress of the students continuously.

i). Following programmes have been conducted for the Non-teaching staff of the institute to improve their performances.

| S. No | Name of the Staff Development Training Program | No. of Internal Non-Teaching Staff Trained | Period | | |
|---|---|---|---|---|---|
| | | | From | To | |
| 1 | Stress, Time Management and 5 S House Keeping Techniques | 190 | 28-09-2013 | 29-09-2013 | |
| 2 | Computer and Financial Accounting | 190 | 14-11-2014 | 06-12-2014 | |
| 3 | 5 S House Keeping Techniques | 190 | 22-08-2015 | 05-09-2015 | |
| 4 | Role of Employees in the development of an institution | 26 | 27-08-2016 | 27-08-2016 | |

ii). The following programmes have been conducted for the benefit of the faculty members for subject updating and capacity building.

| S. No | Name of the Training /Conference/ Workshop | Training /Conference/ Workshop | No. of Internal Faculty Trained | period | | |
|---|---|---|---|---|---|---|
| | | | | From | To | |
| 1 | Live Web Ex Author workshop on Publishing Process in Scientific Journals | Workshop | 150 | 11-09-2013 | 11-09-2013 | |
| 2 | Personality Development | Workshop | 187 | 21-09-2013 | 21-09-2013 | |

| 3 | Green Buildings and Sustaniable Energy | Workshop | 30 | 06-09-2013 | 06-09-2013 |
| 4 | Management Capacity Enhancement Programme | FDP | 31 | 27-08-2013 | 31-08-2013 |
| 5 | Women Empowerment cell | Workshop | 30 | 06-03-2014 | 06-03-2014 |
| 6 | Renewable Energy Technology for Sustainable Envirnoment | Workshop | 30 | 20-02-2014 | 21-02-2014 |
| 7 | Techniques for Evaluating Students Performance | Workshop | 40 | 21-03-2014 | 22-03-2014 |
| 8 | Social Issues and the Envirnoment | Workshop | 30 | 02-08-2014 | 02-08-2014 |
| 9 | NBA Hands on Training Programme | Workshop | 30 | 19-11-2014 | 19-11-2014 |
| 10 | Health Awarness and Education Programme | Workshop | 75 | 16-10-2014 | 16-10-2014 |
| 11 | Enhance, Enrich and Empower | Workshop | 140 | 20-01-2016 | 20-01-2016 |

| 12 | Patents Trademark Copyright and Design | Workshop | 297 | 19-03-2016 | 19-03-2016 |
| 13 | E Learning on Entrepreneurship Development Programme | Workshop | 125 | 24-08-2016 | 24-08-2016 |
| 14 | Importance of Coomunication skills | Workshop | 145 | 19-09-2016 | 19-09-2016 |
| 15 | New challenges for young professionals in materials engineeering | Workshop | 30 | 06-10-2016 | 07-10-2016 |
| 16 | Bloom's Taxonomy of Education Objectives and Construction of Higher Order Questions | Workshop | 51 | 22-10-2016 | 22-10-2016 |
| 17 | QEEE Pedagogy Program | Pedagogy | 51 | 12-06-2014 | 14-06-2014 |
| 18 | Management Capacity Enhancement Programme | Workshop | 51 | 19-08-2016 | 21-08-2016 |

# Criterion 7 - Institutional Values and Best Practices

## 7.1 Institutional Values and Social Responsibilities

**7.1.1 Number of gender equity promotion programs organized by the institution during the last five years**

**Response:** 6

7.1.1.1 Number of gender equity promotion programs organized by the institution year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 3 | 1 | 1 | 1 | 0 |

| File Description | Document |
|------------------|----------|
| List of gender equity promotion programs organized by the institution | [View Document](#) |

**7.1.2 Institution shows gender sensitivity in providing facilities such as**
**a) Safety and Security**
**b) Counselling**
**c) Common Room**

**Response:**

It is a well-known fact that women play a vital role in uplifting her family, society and nation as well. The discrimination against women from cradle to grave is started waning now. Their potential is well understood in the recent decades. Even then, their percentage of participation in all walks of life is not equally felt as opposite gender, still they need opportunities, support and above all freedom to climb up the ladders of success.

Considering the particular need of Women empowerment and Gender Equity, CIT is organizing series of program to make them realize their strengths, to feel on par with male gender, to understand their ability in taking decisions and to take care of their welfare. Both women staff and students are offered positions to equip with necessary range of managerial skills in order to exhibit their leadership skills in various administrative and academic areas.

Series of awareness programs are conducted by CIT to ensure safety and security of women students and faculty members. CIT is more safe and secure as it has 24 * 7 video surveillance systems functioning at strategic locations inside the campus which is being continuously monitored by dedicated personnel. Besides security cameras, the institute also has well trained security guards, who take care of the facility by checking the identity of the person before letting them in, ensuring that students have on their id cards and constantly moving around the campus to check for any hazards or suspicion to be reported or

take immediate action.

Teachers, as tutors and mentors, are the best counselors next to the parents of students. Every batch of 20 students is assigned a tutor who meet their wards regularly to guide them in both academic and personal issues. Apart from that the institute also has counseling room (M-122)where students can walk-in and discuss their concerns. Professional counselor is also giving assistance for the students personal issues.

As a part of general amenities, common rooms are available for both staff and students. These rooms are equipped with first aid kits and furnished with beds, fans and drinking water. (Hall No:M-241,M-243)

## 7.1.3 Percentage of annual power requirement of the Institution met by the renewable energy sources

**Response:** 0.26

7.1.3.1 Annual power requirement met by renewable energy sources (in KWH)

Response: 307.08

| File Description | Document |
|---|---|
| Details of power requirement of the Institution met by renewable energy sources | [View Document](#) |

## 7.1.4 Percentage of annual lighting power requirements met through LED bulbs

**Response:** 0.91

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 91.122

| File Description | Document |
|---|---|
| Details of lighting power requirements met through LED bulbs | [View Document](#) |

## 7.1.5 Waste Management steps including:
- **Solid waste management**
- **Liquid waste management**
- **E-waste  management**

**Response:**

**Solid Waste Management**

Solid waste are collected daily in dustbins located around the campus, which is then dumped in pits. Organic wastes from hostel and canteen are collected separately and are later used as compost for plants.

## Liquid Waste Management

Sewage water treatment plant is installed in the campus for treatment of waste. Then the water is reused for gardening and restrooms thereby reducing the dependency on fresh water sources. Capacity of the treatment plant is 1,50,000 liter per day.

## E-Waste Management

E-wastes of CIT are collected at regular interval and kept in a separate godown by a team of employees. For the safe disposal of e-wastes such as Computer and Peripherals, Laptops, Servers, PCBs , Mobile or Communication devices, and Motherboards, CIT has signed an agreement with Green Era Recyclers, Coimbatore. The copy of agreement along with photos of handling the e-wastes are uploaded herewith.

| File Description | Document |
|---|---|
| Any additional information | [View Document](#) |

## 7.1.6 Rain water harvesting structures and utilization in the campus

**Response:**

Water is elixir of life. Due to global warming owing to pollutions in different forms, there is a severe scarcity of water everywhere, so saving rain water has become an essential requirement. Institute is also committed to save rainwater within the campus considering to the surging demand for water.

Rain Water Harvesting (RWH) is done in the college campus at six rainwater harvesting points which are located around the institute, size of each point ranging from 32042 to 226560 liter that accounts for a total capacity of 1259779 liter. Each RWH point is maintained to avoid having stagnant water in the campus.

| File Description | Document |
|---|---|
| Any additional information | [View Document](#) |

## 7.1.7 Green Practices
* **Students, staff using**
a) **Bicycles**
b) **Public Transport**
c) **Pedestrian friendly roads**
* **Plastic-free campus**

* **Paperless office**
* **Green landscaping with trees and plants**

**Response:**

Students and faculty members of CIT has ample facility to use public transport. Conveyance is much easier as the college is situated in one of the arterial roads of Coimbatore. A Bus stop is located 5 meters away from the college main gate. Public transport is the main source of commute for faculty members and students. Out buses are available at every 5 minutes to all parts of the city and other towns.

For the safety of pedestrians, college campus has paved prominade of 1500 meter long and 5 feet width.

**Plastic-Free campus**

Plastic free awareness programs are conducted every year. Usage of plastics is refrained inside the campus. Plastic bags are banned in the areas like canteen and stationery stores. Students through Road Safety Road (RSP) and Rotaract club are involved to retain the campus plastic –free. Sign boards are placed at strategic points of the campus to create awareness about the negative impact of usage of plastics.

**Paperless Office**

Paper manufacturing leads to deforestation and man-made climate change. Being aware of this consequence, institute has taken various measures such as

1. Correspondence in CIT is in the form of digital.

2. Comprehensive UMS has been installed to handle all administrative activities of the institute.

3. Online submission of faculty member's profile datasheet has also been introduced.

**Green Landscaping with Trees and Plants**

The institute comprises of 2,00,000 sq. ft. area for garden and lawn, with 5000 trees and plants. Age of certain trees inside the campus is more than 60 years. Pest control is carried out once in three months. Being an urban area, dense trees at CIT are homes for thousands of birds which can be witnessed during dawn and dusk, it is a treat for the eyes and ears for us. College campus is a nice place for bird watchers and ornithologist. Awareness on planting trees is regularly conducted by various clubs of CIT and saplings of plants are also distributed to students and staff.

The aerial view of the campus is attached herewith to show the density of greeneries.(Courtesy: Google Earth)

http://www.cit.edu.in/wp-content/uploads/2018/01/greenlandscape.jpg

**7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years**

**Response:** 6.61

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year wise during the last five years(INR in Lakhs)

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 110.57  | 50.69   | 97.05   | 48.26   | 53.86   |

| File Description | Document |
|------------------|----------|
| Details of expenditure on green initiatives and waste management during the last five years | [View Document](#) |

**7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:**

1. **Physical facilities**
2. **Provision for lift**
3. **Ramp / Rails**
4. **Braille Software/facilities**
5. **Rest Rooms**
6. **Scribes for examination**
7. **Special skill development for differently abled students**
8. **Any other similar facility (Specify)**

**A. 7 and more of the above**

**B. At least 6 of the above**

**C. At least 4 of the above**

**D. At least 2 of the above**

**Response:** B. At least 6 of the above

| File Description | Document |
|------------------|----------|
| Resources available in the institution for Divyangjan | [View Document](#) |
| link to photos and videos of facilities for Divyangjan | [View Document](#) |

**7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the**

**last five years**

**Response:** 19

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 12 | 4 | 3 | 0 | 0 |

| File Description | Document |
|------------------|----------|
| Number of Specific initiatives to address locational advantages and disadvantages | [View Document](#) |

**7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)**

**Response:** 9

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 6 | 2 | 1 | 0 | 0 |

| File Description | Document |
|------------------|----------|
| Details of initiatives taken to engage with local community during the last five years | [View Document](#) |

**7.1.12**
**Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff**

**Response:** Yes

| File Description | Document |
|------------------|----------|
| URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics | [View Document](#) |

**7.1.13 Display of core values in the institution and on its website**

**Response:** Yes

| File Description | Document |
|---|---|
| Provide URL of website that displays core values | View Document |

**7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations**

**Response:** Yes

| File Description | Document |
|---|---|
| Details of activities organized to increase consciousness about national identities and symbols | View Document |
| Any additional information | View Document |

**7.1.15 The institution offers a course on Human Values and professional ethics**

**Response:** Yes

| File Description | Document |
|---|---|
| Provide link to Courses on Human Values and professional ethics on Institutional website | View Document |

**7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions**

**Response:** Yes

| File Description | Document |
|---|---|
| Provide URL of supporting documents to prove institution functions as per professional code | View Document |

**7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years**

**Response:** 10

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year wise during the last five years

| 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---------|---------|---------|---------|---------|
| 5 | 3 | 2 | 0 | 0 |

| File Description | Document |
|------------------|----------|
| List of activities conducted for promotion of universal values | View Document |
| Any additional information | View Document |

## 7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

**Response:**

Independence Day and Republic Day are celebrated annually in the institute. Celebrations that are part of Independence Day include Flag hoisting, special drill by CIT NCC cadets, speech by Principal, parade by RSP.

In remembrance of N.Visvesvaraya Engineers Day is celebrated in the Institute , giving awards to the students for their projects and academic performance.

Teachers Day on the remembrance of Sarvepalli Radhakrishnan is celeberated by deputing a list of students to handle classes in the presence of faculty memebers which is recognized by Student-Teacher award

## 7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

**Response:**

A well defined hierarchical system spanning across the administrative and academic stakeholders of the institution strives for academic excellence with their concerted effort. The stakeholders viz. Faculty members and Staff, Members of the statutory bodies like Governing Council, Academic Council, Board of Studies, Financial Committee, Parents, Employers, Management, and Alumni are acting with appropriate level of autonomy with a single agenda of imparting contemporary and relevant knowledge and skills to the learners.

Decentralisation of administrative structure  confirms responsiveness and participation of all the

stakeholders. A detailed organisational chart which delineats transparency is uploaded herewith.http://www.cit.edu.in/wp-content/uploads/2018/01/Organizational-Structure-of-the-Institute.pdf

## 7.2 Best Practices

**7.2.1 Describe at least two institutional best practices (as per NAAC Format)**

**Response:**

**Best Practice #1**

**Title:** Research Promotion

**Objective**

To inculcate research culture among faculty members,

conduct research with national and international grants,

extend the research benefits to students  and society as well,

establish and run Centers of Excellence in various research disciplines, and

 obtain intellectual rights and patents

**The Context**

Knowledge drives the world with numerous innovations via intensive researches conducted in multiple domains. Thus, priority goes to research and innovations. There is an urgent need in Indian context to inculcate and motivate among students and faculty  to focus on research and development for the Progress of India

For every teacher of Higher Education, research is a continuous process and is an indication of achievement and current knowledge. Research increases the credibility and respect of individuals.

**The Practice**

MoU are signed with world renowned universities to encourage collaborative research.

Financial assistance is offered to researchers for their research activities.

Research proposals  are submitted and in turn the college receive grants.

QIP - Centre for Research extends financial assistance to research scholars

All departments  are approved by Anna University as Research Centers for pursuit of Ph.D. degree.

**Evidence of Success**

- Centre of Excellence   in Manufacturing Science is established, supported by MHRD

- Rs. 1663.82 Lakhs sponsored research grants are received

- Rs. 195.91 Lakhs are earned through consultancy work

- MoU is signed with Bergen University College, Norway. Student Mobility programme, Conference and collaborative research are carried out.

- Series of biennial International Conferences are conducted  with Oklahoma State University, USA.

- International and National conferences are organized periodically

- Financial assistance by the Management is provided to faculty members to present papers in conferences in India and Overseas.

- NIRF ranking of the Institution:  2017 :-  51st rank and 2016 :-  34th rank

**Problems Encountered**

Involvement of faculty in teaching the students allows limited time to pursuit  research.

**Resources Required**

Finance is a major resource required for promoting research. As research involves establishment of research laboratories, visits, publication and  registration fee and so on, timely support in this aspect from the Management and Administration is very essential.

Better interaction with premier academic institutions in India and abroad.

**BEST PRACTICE #2**

**Title :Career Prospects**

**Objectives**

- To provide employment by inviting prospective industries

- Making students industry-ready with better Academic Excellence, Communication and Soft-Skills

- To motivate the students to become technopreneurs

**The Context**

Students studying in our college come from heterogeneous backgrounds with socio-economic disparities. Efforts are taken to impart strong technical, communication, Aptitude and Analytical Thinking

**The Practice**

- Faculty and final year students conduct training classes on select topics

- 'Data Coding Club' focuses on Competitive Coding

- To enhance analytical and communication skills, trainers from reputed institutes are invited

**Evidence of Success**

http://www.cit.edu.in/wp-content/uploads/2018/01/Placement-Statistics.pdf

**Problems Encountered**

- Some students lack motivation in attending placement trainings during pre-final year

- Backlog of arrears of few students hinders them in gaining eligibility for attending placement.

- Timings of placement

**Resources Required**

- Dedicated Counseling to surmount students who derail from academics

- Conduct meetings to create awareness among parents about the importance of placements trainings

## 7.3 Institutional Distinctiveness

**7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust**

**Response:**

"**Alumni of the Institute in combating the challenges of our nation and globe as well**"

The **Diamond Jubilee** celebrated in the year 2016 reminds us the thousands of successful engineers graduated from CIT. Our alumni network is very big and its presence is very much felt and recognized wherever they work. Their roles and responsibilities clearly reiterate the Vision of the Institution.

"*The Institute strives to inculcate a sound knowledge in engineering along with realized social*

*responsibilities to enable its students to combat the current and impending challenges faced by our country and to extend their expertise to the global arena"*

A list of a few prominent alumni of the institute is given below, considering the space constraint.

| S.No | NAME | QUALIFICATION | AFFILIATION | |
|---|---|---|---|---|
| 1 | Sri.Chandrasekaran .N | B.Sc -CIT | Chairman of Tata Sons | |
| 2 | Padmashree Dr. N.Balakrishnan | Ph.D | Associate Director of the IISc(Retired) | |
| 3 | Sri. Prabhu .R | Master of Science (SM (MIT)) | Former Member of Parliament | |
| 4 | Dr. S. R. K. Prasad | D.Sc., (USA), FORSI | Correspondent of CIT, Dr. Prasad started an technology IT Company "Kasbah Systems S and also Managing Director of Kr Corporation Ltd, Chennai | |
| 5 | Padmashree Subbiah Arunan | B.E | Project Director of Mars Orbiter Mission, IS | |
| 6 | Sri. ShanmugaSundar .R | B.E | Site Director of Kudankulam Nuclear Power | |
| 7 | Dr.V. Ramachandran | Ph.D. | Former Vice Chancellor, Anna University, T | |
| 8 | Dr. M.J. Xavier | M.Tech | Former Director of IIM,Ranchi | |

| 9 | Chandrasekhar V.B | B.E | Former Indian Cricketer | |
| 10 | Sri.Gopalan R.S | B.E | Collector & District Magistrate, Bavani District, Orissa | |
| 11 | Jayachandran Jeyabalan | B.Tech | Vice President,Pershing, a BNY Mellon co United Kingdom | |
| 12 | Divya Govindaraju | B.Tech | Software Engineer, Apple,Cupertino,CA,Un | |
| 13 | Nadesha Prabhu Krishnamurthy | B.Tech | Vice President , Application Support Engi Chase & Co,Singapore | |
| 14 | Rudramoorthy .R | B.E | Principal - PSG College of Technology,Coi of National Board of Accreditation | |
| 15 | Prof. Dr. R. Rangarajan | B.E | Chancellor & Founder Chairman, VEL Grou Chennai | |
| 16 | Er. Jahangir Mohamed | B.E. | CEO, JASPER, USA | |

# 5. CONCLUSION

## Additional Information :

*Achievements*

- Implemented TEQIP Phase II and Phase III supported by MHRD.
- Selected as Mentor to guide MBM Engineering College, Jodhpur, Rajasthan – under TEQIP III.
- Approved AICTE- QIP centre.
- Creation of Teaching – Learning Centre under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching – MHRD
- Establishment of Centres of Excellence
  - Manufacturing Science Industry 4.0 (I 4.0) supported by MHRD
  - Nanoscience – HVL Norway funded by Research Council of Norway, UGC, AICTE and DST, India
  - 5G Innovation centre
  - Renewable Energy Centre
  - Internet of Things (IoT)
- Establishment of Business Incubation Centre supported by MSME, MHRD, Govt. of India

## Concluding Remarks :

Coimbatore Institute of Technology is a pioneer in the field of education offering innovative undergraduate, postgraduate programmes, advanced research facilities, entrepreneurial opportunities, and provides an engaging campus life. CIT facilitates a collaborative as well as individualistic learning, creativity, talented, and motivated every student towards execution of their individual abilities and ambitions. CIT aim to take the students a step ahead and prepare them for their outstanding careers as professionals and encourages contributing to the global economic growth through their vision and policies. The immense array of disciplines offers students a broad choice of courses of their interest. CIT provides excellent base to its researchers, thereby cheering them to be inventive and novel in their research activities. MoUs with worldwide institutions/organizations afford the researchers with high-quality international exposure. At CIT, there is a Core Group to regulate and look into various aspects of research and teaching-learning. All the efforts are made to encourage independent, original and quality research in a dynamic manner. CIT has modernized the laboratories, class rooms, air conditioned and well-equipped library to encompass a conducive environment for effective teaching and learning. With a pro-active approach, the management ensures the democratic participation of all stakeholders in formulation and implementation of the action plans pertaining to academic and other matters. The governance and implementation policies and plans of the institution are periodically monitored for both the academic excellence through appropriate forums.