



# PPG INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

NH - 209, Sathy Road, Saravanampatty, Coimbatore - 641 035

## SELF STUDY REPORT

JUNE 2016



SUBMITTED TO



**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

(An Autonomous Institution of the University Grants Commission)

P.O. Box No. 1075, Nagarbhavi, Bangalore – 560 072, Karnataka, India

**PPG INSTITUTE OF TECHNOLOGY  
COIMBATORE**



**Dr.L.P.THANGAVELU M.S., FIAS., FIAGES., FICS  
CHAIRMAN**

**PPG INSTITUTE OF TECHNOLOGY  
COIMBATORE**



**Mrs. SHANTHI THANGAVELU M.A.,  
CORRESPONDENT**

**PPG INSTITUTE OF TECHNOLOGY  
COIMBATORE**



**Dr.R.PRAKASAM** B.E.(Hons)., M.E., Ph.D., F.I.E., C.Engg., MISTE  
**PRINCIPAL**



# PPG Institute of Technology

*Empowering total technology*

(A Unit of P Perichi Gounder Memorial Charitable Trust)

Approved by AICTE, New Delhi and Affiliated to Anna University

NH-209, Saravanampatti Post, Coimbatore - 641 035. Phone : 0422 2667555, 90477 77277

Telefax : 0422 2668333 ♦ Web : www.ppg.edu.in ♦ E-mail : ppgit@ppg.edu.in



**Dr. R. PRAKASAM, B.E.(Hons), M.E., Ph.D., F.I.E., C.Engg., MISTE.,  
PRINCIPAL**

## DECLARATION BY THE HEAD OF THE INSTITUTION

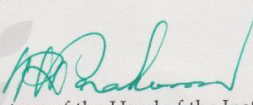
I certify that the data included in this Self Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the Institution after internal discussions and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Place: Coimbatore

Date: 09.06.2016

  
Signature of the Head of the Institution  
with seal

**Dr. R. PRAKASAM**  
B.E.(Hons), M.E., Ph.D., F.I.E., C.Engg, MISTE,  
PRINCIPAL  
PPG INSTITUTE OF TECHNOLOGY  
COIMBATORE - 641 035.



Trust Office : Ashwin Hospital Campus, Sathy Main Road, Coimbatore - 641 012.

Phone : 0422 2525252 Fax : 0422 4221117 ♦ E-mail : ppgrusttobe@yahoo.com



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## CERTIFICATE OF COMPLIANCE

This is to certify that PPG Institute of Technology fulfils all norms

1. Stipulated by the affiliating University and /or
2. Regulatory Council/ Body UGC, AICTE and
3. The affiliation and recognition is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the Institution will be sent.

It is noted the NAAC's accreditation, if granted, shall stand cancelled automatically, once the Institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the Institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the College website.

Date: 24.06.2016  
Place: Coimbatore



  
PRINCIPAL  
PPG Institute of Technology  
Sathy Road, Saravanampatti Pos.,  
Coimbatore - 641 035.  
Tamil Nadu, INDIA

Trust Office : Ashwin Hospital Campus, Sathy Main Road, Coimbatore - 641 012.  
Phone : 0422 2525252 Fax : 0422 4221117 ♦ E-mail : ppgtrustcbe@yahoo.com

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## **PREFACE**

It is a pleasure in submitting the Self Study Report (SSR) to the National Assessment and Accreditation Council (NAAC). The present report brings under its fold the seven criteria prescribed by the NAAC, as a means of grading the continuous efforts of PPG Institute of Technology (PPGIT) towards enhancing the quality in Academia and Administration of the Institution.

The P Perichi Gounder Memorial Trust has been established by Dr.L.P.Thangavelu in the year 1992 with the aim of providing opportunities to educational aspirants pursuing courses in Engineering, Technology, Health Sciences and Management. In 2008, the Trust created PPG Institute of Technology (PPGIT), the flagship Institution of the group. It aims to produce intellectually bright, critically intense and creatively powerful engineers. Approved by AICTE and affiliated to Anna University, PPGIT strives hard to nurture the young minds in making them competent professionals in their domains.

The Institution was granted ISO 9001:2015 by TUV SUV South Asia P Ltd and is recognized under Section 2(f) of the UGC Act of 1956. PPG Institute of Technology (PPGIT) has been started with four UG courses initially and introduced several other UG and PG courses in later periods. At present, PPGIT offers Six Under Graduate courses namely BE Civil Engineering, BE Computer Science and Engineering, BE Electronics and Communication Engineering, BE Electrical and Electronics Engineering, BE Mechanical Engineering and BE Mechatronics Engineering and Four Post Graduate courses ME Computer Science and Engineering, ME VLSI Design, ME Engineering Design, ME Power Electronics and Drives.

Since its inception, the College has been growing from strength to strength achieving excellence in the field of engineering and technology. The Institution also values its human capital and believes that its power lies in them. As these ideals have shaped the Institution, it has seen an increase in the number of the students and the faculty every year. At present, the College has a large strength of around 1372 students with 166 teaching faculty in various departments, 53 non teaching staff and 24 technical staff.

To monitor the quality of education, the Institution established IQAC with an aim to improve the overall performance of the Institution. The Cell channelizes the efforts of the Institution towards academic excellence through team work and persistent efforts. The Institution is located at an equilateral distance from the city with easy accessibility nestled in a spacious campus and set in a vast area of 10 acres.

The College boasts of multi-storied buildings which house classrooms, laboratories, library, faculty rooms and conference halls, administrative and residential areas. The joint effort and co-ordination of many hands went into the successful completion of this SSR. The entire team of PPGIT worked wholeheartedly and tirelessly to ensure that this report sees the light of day.

(Dr. R. PRAKASAM)

Principal

## Profile of the Institution

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

<b>Name</b>	<b>PPG Institute of Technology, Coimbatore</b>	
<b>Address</b>	PPG Institute of Technology, PPG College Road, Saravampatti (PO), Coimbatore	
<b>City :Coimbatore</b>	<b>Pin: 641035</b>	<b>State: Tamil Nadu</b>
<b>Website : <a href="http://www.ppg.edu.in">www.ppg.edu.in</a></b>		

### 2. For Communication:

<b>DESIGNATION</b>	<b>NAME</b>	<b>TELEPHONE WITH STD CODE</b>	<b>MOBILE</b>	<b>FAX</b>	<b>E-MAIL</b>
Principal	Dr.R.Prakasam	9047777977	9047777977	0422-2668333	principalit@ppg.edu.in
Steering Committee Coordinator	Mr.V.Saravanakumar	9944495244	9944495244	0422-2668333	hodeee@ppg.edu.in

### 3. Status of the Institution:

- Affiliated College
- Constituent College
- Any Other (Specify)

**4. Type of Institution:**

**By Gender**

- For Men
- For Women
- Co-education**

**By Shift**

- Regular**
- Day
- Evening

**5. It is recognized minority Institution?**

- Yes
- No

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

**6. Source of Funding:**

- Government
- Grant-in-aid
- Self-Financing**
- Any other

**7. A. Date of establishment of the College** : 01-08-2008

**B. University to which the College is affiliated:** Anna University,  
Chennai

**C. Details of UGC Recognition:**

<b>UNDER SECTION</b>	<b>DATE, MONTH &amp; YEAR</b>	<b>REMARKS (IF ANY)</b>
2(f)	Approved by UGC on 06.01.2016	Ref : F.NO : 8-496/2015(CPP-I/C)
12 (B)	Under Progress	

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

<b>UNDER SECTION / CLAUSE</b>	<b>RECOGNITION / APPROVAL DETAILS INSTITUTION / DEPARTMENT PROGRAMME</b>	<b>DAY, MONTH AND YEAR</b>	<b>VALIDITY</b>	<b>REMARKS</b>
(i) Section 3 of AICTE Act no. 52 of 1987	AICTE, New Delhi	05.04.2016	1 Year	-
(ii) Section 29 Clause XVI of Anna University Act 1978	Anna University, Chennai	13.05.2016	1 Year	-

(The scanned copies of recognition / approval letters are enclosed)

**8. Does the affiliating University act provide for conferment of autonomy (as recognized by the UGC), on its affiliated Colleges?**

Yes

No

If yes, has the College applied for availing the autonomous status?

Yes

No

**9. Is the College recognized By UGC as a College with Potential for Excellence (CPE)?**

Yes

No

For its performance by any other governmental agency?

Yes

No

**10. Location of the campus and area in sq.mts.**

<b>Location</b>	<b>Rural</b>
<b>Campus area</b>	40470 square meters
<b>Built up area</b>	26995 square meters

**11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.**

Auditorium with infrastructural facilities

- ✓ Air Conditioned Auditorium with 250 seating capacity
- ✓ Seminar Hall with 300 seating capacity
- ✓ Orientation Hall with 500 seating capacity

Sports Facilities

- ✓ Director of Physical Education – Mr.M.Manoharan
- ✓ Playground
- ✓ Outdoor games
- ✓ Indoor Games
  - Carrom
  - Chess
  - Table Tennis
  - Shuttle
  - Ball badminton

**Hostel**

**Boys Hostel**

Number of hostels	01
Number of Inmates	320
Facilities	Hygienic dining area protected drinking water, 24 hours ambulance facility, security and Indoor Games.

**Girls Hostel**

Number of hostels	01
Number of Inmates	340
Facilities	Hygienic dining area, protected drinking water, 24 hours ambulance facility, security and Indoor Games.

Cafeteria : 150 Square meter with seating capacity of 50

Health center

- ✓ A Multidisciplinary Ashwin Hospital belonging to PPG Trust is located near to the campus. Doctors with various specialties are available full time for the staff and students.
- ✓ 5 Bedded PPG Physiotherapy Center, Visuvasapuram is located at 2 kms from the campus.

**Health center staff:**

Qualified Doctor

- Full time
- Part time

Qualified Nurse

- Full time
- Parttime

Facilities like banking and book shops

- Yes
- No

**Transport facilities to cater to the needs of students and staffs.**

- Yes
- No

**Biological waste disposal.**

- Yes
- No

**Generator or other facility for management / regulation of electricity and voltage**

- Yes
- No

**Solid waste management facility** Yes No**Waste water management** Yes No**Rain water harvesting** Yes No**12. Details of programmes offered by the College (Give data for current academic year)**

S. No	Programme level	Name of the programme/ course	Duration in Years	Entry qualification	Medium of instruction	Sanctioned/ approved student strength	No of students admitted
1	UG	Civil Engineering	4	Pass in 12th standard or equivalent with Mathematics, Physics & Chemistry	English	120	39
		Computer Science and Engineering	4		English	60	19
		Electronics and Communication Engineering	4		English	120	17

		Electrical and Electronics Engineering	4		English	60	17
		Mechanical Engineering	4		English	120	83
		Mechatronics Engineering	4		English	60	16
2	PG	Computer Science and Engineering	2	Passed an appropriate UG Degree Examination from recognized University	English	18	6
		Engineering Design	2		English	24	4
		Power Electronics and Drives	2		English	24	9
		VLSI Design	2		English	18	5

**13. Does the College offer self-financing Programmes?**

Yes

No. If Yes, how many? UG - 6, PG – 4 (Totally 10)

**14. New programmes introduced in the College during the last five years if any?**

Yes	✓	No	✗	Number : 5
-----	---	----	---	------------

**15. List of departments (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programme. Similarly, do not list the departments offering common compulsory subjects for all the programme like English, and regional languages etc.,)**

<b>FACULTY</b>	<b>DEPARTMENTS</b>	<b>UG</b>	<b>PG</b>	<b>RESEARCH</b>
Any other (Specify)	Civil Engineering	BE - Civil Engineering	-	-
	Computer Science & Engineering	BE - Computer Science & Engineering	ME - Computer Science & Engineering	-
	Electrical & Electronics Engineering	BE - Electrical & Electronics Engineering	ME - Power Electronics and Drives	-
	Electronics & Communication Engineering	BE - Electronics & Communication Engineering	ME - VLSI Design	-
	Mechanical Engineering	BE - Mechanical Engineering	ME - Engineering Design	-
	Mechatronics Engineering	BE - Mechatronics Engineering	-	-

**16. Number of Programmes offered under (Programme means a degree course like B.A., BSc., MA., M.Com., etc.,)**

- a. Annual system : Nil
- b. Semester system : 10
- c. Trimester system : Nil

**17. Number of Programmes with**

- a. Choice BASED Credit System : Nil
- b. Inter/Multidisciplinary Approach : Nil
- c. Any other (specify and provide details) : University Based credit system.

**18. Does the College offer UG and /or PG programme in Teacher Education?**

- Yes
- No

**19. Does the College offer UG or Programmes in Physical Education?**

- Yes
- No

**20. Number of teaching and non-teaching positions in the Institution.**

POSITIONS	TEACHING						NON-TEACHING			
	PROFESSOR		ASSOCIATE PROFESSOR		ASSISTANT PROFESSOR		TECHNICAL		NON - TECHNICAL	
	M	F	M	F	M	F	M	F	M	F
Sanctioned by the management / Society or any other authorized bodies	21		37		108		24		53	
Recruited	8	1	4	2	104	47	20	4	37	16
Yet To Recruit	12		31		-		-		-	

**21. Qualifications of the teaching staff.**

HIGHEST QUALIFICATION	PROFESSOR		ASSOCIATE PROFESSOR		ASSISTANT PROFESSOR		TOTAL
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
PERMANENT TEACHERS							
Ph.D.	5	1	-	1	2	-	9
M.Phil.	3	-	1	-	8	14	26
PG	-	-	3	1	94	33	131
Total	8	1	4	2	104	47	166

**22. Number of Visiting Faculty/Guest Faculty engaged with the College :**

NIL

**23. Furnish the number of the students admitted to the College during the last four academic years.**

CATEGORY	1st YEAR (2015-2016)	2nd YEAR (2014-2015)	3rd YEAR (2013-2014)	4th YEAR (2012 – 2013)
SC / ST	22	17	36	27
OBC	157	170	369	282
GENERAL	94	136	198	114
OTHERS	-	-	-	-
TOTAL (UG + PG + Lateral Entry)	273	323	603	423

**24. Details on student's enrollment in the College during the current academic year.**

<b>TYPE OF STUDENTS</b>	<b>UG</b>	<b>PG</b>	<b>TOTAL</b>
STUDENTS FROM SAME STATE WHERE COLLEGE IS LOCATED	179	26	205
STUDENTS FROM OTHER STATES OF INDIA	63	5	68
NRI STUDENTS	-	-	-
FOREIGN STUDENTS	-	-	-
<b>TOTAL</b>	<b>242</b>	<b>31</b>	<b>273</b>

**25. Dropout rate in UG and PG (average of the last two batches).**

UG & PG: 2014-2015: 1.86%

2013-2014: 1.97%

**26. Unit Cost of Education.**

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

(a)	Including the salary component	83552 /-
(b)	Excluding the salary component	54383 /-

**27. Does the College offer any programme/s in distance education mode (DEP)?**

Yes

No

**28. Provide Teacher -Student ratio for each of the programme/course offered.**

1: 15 (For BE/B.Tech)/1: 12 (For M.E/M.Tech)

**29. Is the College applying for**

Accreditation

Cycle 1

Cycle 2

Cycle 3

Cycle 4

Re-Assessment

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re- accreditation).

**30. Date of accreditation\***

(Applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)  
Not Applicable

**31. Number of working days during the last academic year (2015 - 2016):**

180

**32. Number of teaching days during the last academic year (2015 - 2016):**

(Classroom lecture days excluding exam days)  
162

**33. Date of establishment of Internal Quality Assurance Cell (IQAC):**

01/07/2015

**34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC:**

AQAR (i) ..... Not Applicable ..... (dd/mm/yyyy)

AQAR (ii) ..... Not Applicable ..... (dd/mm/yyyy)

AQAR (iii) ..... Not Applicable ..... (dd/mm/yyyy)

AQAR (iv) ..... Not Applicable ..... (dd/mm/yyyy)

**35. Any other relevant data (not covered above) the College would like to include (Do not include explanatory / descriptive information).**

<b>S.No</b>	<b>Description</b>	<b>Details</b>
<b>1</b>	ISO- Certified Institution	ISO 9001 : 2015 Certification by TUV SUD South Asia Private Limited.
<b>2</b>	Placement Cell	Focuses on Job opportunities and career guidance services are also provided.

## **EXECUTIVE SUMMARY AND SWOC ANALYSIS**

PPG Institute of Technology (PPGIT), approved by AICTE and affiliated to Anna University, Chennai, is one of the most sought self financing Engineering Colleges in Tamil Nadu. PPGIT was established in 2008 by Dr.L.P.Thangavelu with a vision and mission of imparting quality technical education to the deserving and meritorious students from the socially and economically weaker sections. The motto of PPGIT is “Empowering Total Technology.” The Institution believes that education is not the privilege of the few elite but the prerogative of the many educational aspirants. PPGIT, located at a distance of 12 kilometers from Coimbatore Railway Station and 8 kilometers from Coimbatore Civil Aerodrome, is set in a calm and congenial locale.

The Institution stands nestled in a spacious campus set in a vast area of 40470 Sq.m, with four storied buildings housing classrooms, laboratories, library, faculty rooms, conference halls, administrative and residential areas with built up area of 26995 Sq.m. The Institution provides educational opportunities in the form of highly advanced courses through eminent faculty members, well equipped laboratories, library, hostels and immense facilities to excel in research and development. With its magnificent ambience and modern high-tech facilities, the Institution is steadily ambling towards the pinnacle of excellence.

The Institution established Quality Assurance Cell (QAC) in 2008 to monitor the academic and administrative performance of the Institution. PPGIT was certified by ISO in 2009 for its efficient maintenance of the system. The Quality Assurance Cell has been redefined as Internal Quality Assurance Cell (IQAC) on 1st July, 2015 to assure the best quality in both administration and academia. The Institution strives hard to incorporate the following five core values designed by NAAC, in its overall functioning and output:

- Contributing to National Development
- Fostering Global Competencies among Students
- Inculcating a Value System in Students
- Promoting the Use of Technology
- Quest for Excellence

The Institution takes pride in the fact that the Management was recognized for its yeomen service rendered towards education and society. Dr.L.P Thangavelu, Chairman, PPGIT, received the ‘Best doctor Award 2014’ from State Government of Tamilnadu for his exemplary commitment and impactful positive contribution to Medical field in Tamilnadu. Dr.R.Prakasam, Principal had received the Outstanding Mechanical Engineer Award from Institution of Engineers (India) for the year 2008 at a ceremonial function conducted at PSG College of Technology, Coimbatore.

### **Vision**

PPG Institute of Technology, Coimbatore, is to be a centre of excellence in technical learning to compete globally and raising the economic standard of the nation.

### **Mission**

Our mission is to bestow eminent technical education to ignite students with an urge for research and development attitude, the aim to inculcate the habit of independent and innovative thinking, also to make the students an asset to our nation and be a part of its pride and heritage by upholding and promoting the ethical values and principles of morality and ethos of our ancient culture.

**UG Courses:**

- B.E. Civil Engineering
- B.E. Computer Science and Engineering
- B.E. Electrical and Electronics Engineering
- B.E. Electronics and Communication Engineering
- B.E. Mechanical Engineering
- B.E. Mechatronics Engineering

**PG Courses:**

- M.E. Computer Science and Engineering
- M.E. Engineering Design
- M.E. Power Electronics and Drives
- M.E.VLSI Design

<b>Year</b>	<b>Description</b>
2008	PPGIT was started with the following Under Graduate Programmes: B.E. Computer Science and Engineering (Intake of 60) B.E. Electrical and Electronics Engineering (Intake of 60) B.E. Electronics and Communication Engineering (Intake of 60) B.Tech. Information Technology (Intake of 60)
2009	The following New Additional UG & PG Programmes were introduced: B.E. Mechanical Engineering (Intake of 60) Master of Business Administration (Intake of 60)
2010	The following New Additional UG Programme was introduced : B.E. Civil Engineering (Intake of 60)

2011	<p>The following New Additional UG was introduced :</p> <p>B.E. Mechatronics Engineering (Intake of 60)</p> <p>The intake strength had been increased in the following Programmes:</p> <p>B.E. Electronics and Communication Engineering (Intake of 60+60 =120)</p> <p>B.E. Mechanical Engineering (Intake of 60+60=120)</p> <p>Three New Additional PG Programmes were also introduced:</p> <p>Master of Computer Applications (MCA) (Intake of 60)</p> <p>M.E. Computer science and Engineering (Intake of 18)</p> <p>M.E. VLSI Design (Intake of 18)</p>
2012	<p>The intake strength had been increased in the following Programmes:</p> <p>B.E. Civil Engineering (Intake of 60+60 =120)</p> <p>B.E. Computer Science and Engineering (Intake of 60+60 =120)</p> <p>The following New additional PG Programmes were introduced:</p> <p>M.E. Engineering Design ( Intake of 24)</p> <p>M.E. Power Electronics and Drives ( Intake of 18)</p>
2013	NIL
2014	NIL
2015	NIL

## **CRITERION I: CURRICULAR ASPECTS**

### **1.1 CURRICULUM PLANNING AND IMPLEMENTATION**

**1.1.1 State the vision, mission and objectives of the Institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.**

#### **MISSION**

To bestow eminent technical and management education, to ignite students with an urge for research and development, to inculcate the habit of independent and innovative thinking, to infuse the spirit of self-direction and thereby make our students assets to our nation - be a part of its pride and heritage by upholding and promoting the ethical values, principles of morality and ethos of our ancient culture.

#### **VISION**

To be an incubator of innovation and excellence imparting technical and management education, to compete globally and thereby contribute to the socio-economic wellbeing of the nation.

#### **CORE VALUES**

- 1 Academic integrity and accountability
- 2 A searching and inquisitive mind to explore and experiment
- 3 Respect and tolerance for the views of every individual
- 4 Attention to issues of national relevance as well as of global concern
- 5 Holistic understanding, including knowledge of the humanities and sciences
- 6 Appreciation of intellectual excellence and creativity

- 7 Undoubting spirit of learning exploration , rationality and enterprise
- 8 Sensitivity to social responsibilities

## **OBJECTIVES**

- ✓ Customer Satisfaction.
- ✓ Academic Results.
- ✓ Environmental Cleanliness.
- ✓ Training and Placement.
- ✓ Continual Improvement of Process.
- ✓ The vision and mission of the Institution are communicated to students, parents and public by means of :
  - ✓ Display boards at prominent places in the campus.
  - ✓ Institution website.
  - ✓ Prospectus

### **1.1.2 How does the Institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).**

On the basis of guidelines given by Anna University, Chennai, an academic calendar is prepared by the individual departments in consultation with the exam cell and accordingly action plans are deployed. The academic calendar includes centralized internal test schedule, tentative University examination schedule and schedule for various departmental level activities like workshops, guest lectures, conferences, etc.

In each semester, subjects are allotted to faculty members according to their willingness and area of specialization. Prior to the commencement of classes, individual lesson and laboratory plans are prepared for each subject. The faculty members prepare a detailed lesson plan keeping in view the number of

instruction days and the time of examination so that there will be enough time for completion and revision of the courses. Apart from regular / traditional teaching methods, faculty members are encouraged to impart the curriculum through innovative teaching methods such as presentations, assignments, NPTEL Videos, workshops, seminars and industrial visits.

Lecture notes are prepared in advance by referring to various reference books, NPTEL videos and other materials related to their field. HoDs and senior faculty members render advice to the junior faculty members about the notes, problems etc.

Each individual faculty maintains a log book, in which, the topics discussed in the class room in each period are recorded, which will give an idea about the pace with which each unit of the syllabus is covered as per the prepared lesson plan. The log books are verified by the HoDs fortnightly. The Principal / HoD directly gets feedback from the students through class committee meetings on the progress in individual subjects and takes immediate action by instructing the faculty concerned to improve.

ISO 9001:2015 internal and surveillance audits are conducted regularly to ensure conformance with the stated institute objectives. Regular feedback on curriculum, delivery of syllabus, electives, value added courses and University question papers are obtained from stakeholders for policy reformation.

### **1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or Institution) for effectively translating the curriculum and improving teaching practices?**

The Institution organizes Faculty Development Programmes for selected subjects and workshops for the benefit of staff members to participate and update their knowledge with latest emerging trends.

A faculty development cell under the in-charge of a senior faculty is functioning effectively to arrange faculty development programmes for different categories of faculty members depending on the needs. The Institution encourages the staff members to participate in the Faculty Development Programmes (FDP), orientation / refresher courses, workshops and seminars organized by other Institutions / universities to update their knowledge and to improve their teaching practices. Faculty members are deputed for national and international seminars and conferences. Memberships in professional bodies for the faculty members are encouraged.

The faculty members are encouraged to share their domain knowledge through presentations in front of other faculty members of the department, which will improve their teaching skills. LCD projectors and Overhead Projectors (OHP) are provided to each department which will facilitate the faculty members to deliver effective lectures with practical examples and applications through pictures and technical videos (NPTEL and Online Lectures).

Faculty members are provided with the accessibility to e-journals, text books, reference books and other technical magazines from the library. The College motivates the faculty members to concentrate on research activities apart from teaching.

#### **1.1.4 Specify the initiatives taken up or contribution made by the Institution for Effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.**

As per the norms of Anna University, Chennai, Laboratory facilities are developed and additional experiments are conducted for a thorough understanding of the subjects. Institution provides sufficient teaching aids (black boards, Video & audio conferencing rooms, NPTEL access, Spoken Tutorials) for effective curriculum delivery.

In addition to the regular classes, the College also organizes Guest lectures by inviting experts from various fields of industries to share their knowledge with the students. Additional topics are covered by the faculty members apart from the curriculum which fulfills the industry requirements.

Based on the result analysis of the internal examinations and the feedback received from the students in the class committee meetings, special coaching classes are arranged for slow learners in order to help them in improving their performance.

#### **1.1.5 How does the Institution network and interact with beneficiaries such as industry, research bodies and the University in effective operationalization of the curriculum?**

The Training and Placement cell maintains a professional relationship with various industries. HR and technical persons from different companies are invited to interact with students for improving the student knowledge in emerging trends and industrial needs.

The Institution has signed MOU with many industries. The association with the industries through MOU enables the Institution to know the requirements of the industries in terms of the soft and technical skills of the students and accordingly it becomes possible to plan extra training to be provided for the students. This assists in curriculum enrichment to impart information on latest trends in the industry.

The meaningful and relevant suggestions made during the industry institute interaction are used for taking necessary steps to introduce new value added courses for the students.

Both students and teachers used to visit various industries related to their subjects of study and interact with the experts in the concerned field. This enhances the effective operationalization of the curriculum.

**1.1.6 What are the contributions of the Institution and / or its staff members to the development of the curriculum by the University? Number of staff members / departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided specific suggestions etc.**

Not Applicable

**1.1.7 Does the Institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating University) by it? If yes, give details on the process (Needs Assessment, design, development and planning) and the courses for which the curriculum has been developed.**

As the Institution is affiliated to the Anna University, it has no authority to frame its own curriculum for any of the course. However to meet the requirement of current industrials needs, various value added courses and their curriculum are framed in consultation with the industries.

**1.1.8 How does Institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?**

- ✓ The stated objectives of curriculum are achieved through effective planning of teaching and laboratory sessions. This is ensured through various kinds of assessments.
- ✓ The subject knowledge of the students is evaluated through internal assessment tests. Additional coaching classes are arranged for slow learners to have clear understanding of the subject.
- ✓ Fortnightly, monitoring the laboratory experiments and coverage of syllabus in theory subjects are done by the Heads of the Departments.
- ✓ Model examinations are conducted to evaluate the outcome of each course.

- ✓ Eminent academicians and industrial experts are invited for Guest Lectures on certain important topics of the curriculum.
- ✓ Progress of the syllabus coverage and any other issues relevant to the delivery system is obtained from the feedback through class committee meetings.
- ✓ Tutor-Ward system is in place to help the students to overcome the academic / personal difficulties, where 15 to 20 students of each class are monitored by one faculty member who will be responsible for monitoring their ward.
- ✓ The outcomes of the examinations are analyzed and strategic plans are implemented to improve the results.

## **1.2 ACADEMIC FLEXIBILITY**

### **1.2.1 Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the Institution.**

Since the Institution is affiliated to Anna University, Chennai, it adopts the curriculum prescribed by the Anna University. However the curriculum provides flexibility in selecting the elective subjects in the third and final year of studies. Also, additional workshops and value added courses are conducted to enrich the knowledge and soft skills of the students.

### **1.2.2 Does the Institution offer programmes that facilitate twinning / dual degree? If yes, give details.**

The Institution does not offer programmes that facilitate twinning / dual degree since there is no provision to offer such programmes under the Anna University norms.

**1.2.3 Give details on the various Institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:**

**Range of Core / Elective options offered by the University and those opted by the College:**

The Students are required to register for all the core subjects prescribed to enhance their academic abilities and employment skills; these are well structured and well planned in the lesson plan. Electives offered by the departments are tabulated in the below (Table 1.1).

**TABLE 1.1 ELECTIVES OFFERED**  
**Department of Civil Engineering**

<b>University</b>	<b>Semester/ Degree</b>	<b>Electives offered by university</b>	<b>Batch</b>	<b>Electives opted by the students</b>
AUC(EW)	6/UG	<ul style="list-style-type: none"> <li>• Hydrology</li> <li>• Electronic Surveying</li> <li>• Probability and Statistics</li> <li>• Professional Ethics and Human Values</li> <li>• Traffic Engineering and Management</li> <li>• Housing Planning and Management</li> </ul>	2008-12	NA
			2009-13	NA
			2010-14	<ul style="list-style-type: none"> <li>• Housing Planning and Management</li> </ul>
	7/UG	<ul style="list-style-type: none"> <li>• Finite Element Techniques</li> <li>• Pre stressed Concrete</li> <li>• Bridge Structures</li> <li>• Storage Structures</li> <li>• Tall Buildings</li> <li>• Structural Dynamics</li> </ul>	2008-12	NA
			2009-13	NA
			2010-14	

		<ul style="list-style-type: none"> <li>• Prefabricated Structures</li> <li>• Computer Aided Design of Structures</li> <li>• Industrial Structures</li> <li>• Introduction to Soil Dynamics and Machine</li> <li>• Foundations</li> <li>• Smart Materials and Smart Structures</li> <li>• Disaster Resistant Structures</li> <li>• Repair and Rehabilitation of Structures</li> </ul>		<ul style="list-style-type: none"> <li>• Prefabricated Structures</li> <li>• Repair and Rehabilitation of Structures</li> </ul>
	8/UG	<ul style="list-style-type: none"> <li>• Contract Laws and Regulations</li> <li>• Ground water Engineering</li> <li>• Management of Irrigation Systems</li> <li>• Coastal Zone Management</li> <li>• Water Resources Engineering</li> <li>• Environmental Impact Assessment of Civil Engineering Projects</li> <li>• Industrial Waste Management</li> <li>• Ground Improvement Techniques</li> <li>• Project formulation and Management</li> <li>• Air Pollution Management</li> <li>• Municipal solid waste Management</li> </ul>	2008-12	NA
			2009-13	NA
				2010-14

AUC(2008)	6/UG	<ul style="list-style-type: none"> <li>• Hydrology</li> <li>• Cartography</li> <li>• Electronic Surveying</li> <li>• Remote Sensing Techniques and GIS</li> <li>• Architecture</li> <li>• Total Quality Management</li> <li>• Fundamentals of Nano science</li> <li>• Professional Ethics in Engineering</li> <li>• Intellectual Property Rights (IPR)</li> <li>• Indian Constitution and Society</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Remote Sensing Techniques and GIS</li> </ul>
		<ul style="list-style-type: none"> <li>• Professional Ethics in Engineering</li> <li>• Intellectual Property Rights (IPR)</li> <li>• Indian Constitution and Society</li> </ul>	2012-16	<ul style="list-style-type: none"> <li>• Architecture</li> </ul>
	7/UG	<ul style="list-style-type: none"> <li>• Traffic Engineering and Management</li> <li>• Housing Planning and Management</li> <li>• Ground Water Engineering</li> <li>• Management of Irrigation Systems</li> <li>• Coastal Zone Management</li> <li>• Water Resources Engineering</li> <li>• Pavement Engineering</li> <li>• Ground Improvement Techniques</li> <li>• Contract Laws and Regulations</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Housing Planning and Management</li> <li>• Air Pollution Management</li> </ul>

		<ul style="list-style-type: none"> <li>• Introduction to Soil Dynamics and Machine Foundations</li> <li>• Rock Engineering</li> <li>• Environmental Impact Assessment of Civil Engineering Projects</li> <li>• Industrial Waste Management</li> <li>• Air Pollution Management</li> <li>• Municipal Solid Waste Management</li> <li>• Ecological Engineering</li> </ul>	2012-16	<ul style="list-style-type: none"> <li>• Water Resources Engineering</li> <li>• Air Pollution Management</li> </ul>
	8/UG	<ul style="list-style-type: none"> <li>• Bridge Structures</li> <li>• Storage Structures</li> <li>• Design of Plate and Shell Structures</li> <li>• Tall Buildings</li> <li>• Prefabricated structures</li> <li>• Wind Engineering</li> <li>• Computer Aided Design of Structures</li> <li>• Industrial Structures</li> <li>• Smart Structures and smart Materials</li> <li>• Finite Element Techniques</li> <li>• Repair and Rehabilitation of Structures</li> </ul>		

AUC(2013)	6/UG	<ul style="list-style-type: none"> <li>• Hydrology</li> <li>• Concrete Technology</li> <li>• Remote Sensing Techniques and GIS</li> <li>• Architecture</li> <li>• Professional Ethics in Engineering</li> <li>• Construction Planning and Scheduling</li> </ul>	2013-17	<ul style="list-style-type: none"> <li>• Concrete Technology</li> </ul>
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**Department of Computer Science and Engineering**

University	Semester/ Degree	Electives offered by university	Batch	Electives opted by the students
AUC(EW)	6/UG	<ul style="list-style-type: none"> <li>• Embedded System</li> <li>• VLSI design</li> <li>• Visual Programming</li> <li>• Optimization Techniques</li> <li>• Professional Ethics</li> <li>• Mobile computing</li> <li>• Management Information system</li> <li>• Middleware technology</li> </ul>	2008-12	<ul style="list-style-type: none"> <li>• Professional Ethics</li> </ul>
			2009-13	
			2010-14	
	7/UG	<ul style="list-style-type: none"> <li>• Software testing</li> <li>• Software project management</li> <li>• Grid computing</li> <li>• Distributed computing</li> <li>• Parallel processing</li> <li>• Soft computing</li> <li>• Adhoc sensor Networks</li> <li>• Data warehousing and</li> </ul>	2008-12	<ul style="list-style-type: none"> <li>• Software Testing</li> </ul>
			2009-13	<ul style="list-style-type: none"> <li>• Total Quality management</li> </ul>
			2010-14	

		<ul style="list-style-type: none"> <li>• Data mining</li> <li>• Client server computing</li> <li>• Real time systems</li> <li>• TotalQuality management</li> </ul>		
	8/UG	<ul style="list-style-type: none"> <li>• Digital image processing</li> <li>• Natural Language Processing</li> <li>• Software Quality Management</li> <li>• System Modeling And Simulation</li> <li>• High Speed Networks</li> <li>• C # And .Net Framework</li> <li>• Network Programming And Management</li> <li>• Enterprise Resource Planning</li> <li>• Information Security</li> <li>• Cloud computing</li> <li>• Real Time Systems</li> <li>• Semantic Web</li> <li>• Service Oriented Architecture</li> <li>• Disaster Management</li> </ul>	2008-12	<ul style="list-style-type: none"> <li>• Information Security</li> <li>• Cloud computing</li> <li>• Disaster Management</li> </ul>
			2009-13	
			2010-14	
AUC(2008)	6/UG	<ul style="list-style-type: none"> <li>• Multicore Programming</li> <li>• Visual Programming</li> <li>• Advanced JAVA Programming</li> <li>• Parallel Programming</li> <li>• Web Technology</li> <li>• UNIX Internals</li> <li>• Numerical Methods</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Web Technology</li> <li>• Knowledge Management</li> </ul>

		<ul style="list-style-type: none"> <li>• Embedded Systems</li> <li>• Advanced Database Technology</li> <li>• Knowledge Management</li> <li>• High Performance Microprocessors</li> </ul>	2012-16	<ul style="list-style-type: none"> <li>• Web Technology</li> <li>• Knowledge Management</li> </ul>
	7/UG	<ul style="list-style-type: none"> <li>• Resource Management Techniques</li> <li>• Data Warehousing and Data Mining</li> <li>• Real Time Systems</li> <li>• TCP/IP Design and Implementation</li> <li>• Natural Language Processing</li> <li>• User Interface Design</li> <li>• Service Oriented Architecture</li> <li>• Advanced Operating Systems</li> <li>• C# and .NET Framework</li> <li>• Cryptography and Network Security</li> <li>• Systems Modeling &amp; Simulation</li> <li>• Total Quality Management</li> <li>• Network Programming and Management</li> <li>• Software Testing</li> <li>• Wireless Networks</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• User Interface Design</li> <li>• Wireless Networks</li> </ul>

**Department of Electrical and Electronics Engineering**

<b>University</b>	<b>Semester/ Degree</b>	<b>Electives offered by university</b>	<b>Batch</b>	<b>Electives opted by the students</b>
AUC(EW)	7/UG	<ul style="list-style-type: none"> <li>• VLSI Design</li> <li>• Neural Networks and Fuzzy Systems</li> <li>• Power Quality Engineering</li> <li>• Power System operation and Control</li> <li>• Total Quality Management</li> <li>• Computer Networks</li> <li>• Visual Instrumentation</li> <li>• Computer Aided Analysis</li> <li>• And Design of Electrical Apparatus</li> <li>• Electrical System Design and Estimation</li> <li>• Microprocessor based System Design</li> </ul>	2008-12	<ul style="list-style-type: none"> <li>• Power Quality Engineering</li> <li>• Computer Networks</li> </ul>
			2009-13	<ul style="list-style-type: none"> <li>• Power Quality Engineering</li> <li>• Computer Networks</li> </ul>
			2010-14	<ul style="list-style-type: none"> <li>• Power System Operation and Control</li> <li>• Computer Networks</li> </ul>
	8/UG	<ul style="list-style-type: none"> <li>• High Voltage Engineering</li> <li>• Modern Control of Engineering</li> <li>• Special Electrical Machines</li> <li>• Digital Image Processing</li> <li>• Renewable Energy Sources</li> <li>• Medical Instrumentation</li> <li>• Optical Communication</li> </ul>	2008-12	<ul style="list-style-type: none"> <li>• Special Electrical Machines</li> <li>• Renewable Energy Sources</li> </ul>
			2009-13	<ul style="list-style-type: none"> <li>• High Voltage Engineering</li> <li>• Special Electrical</li> </ul>

		<ul style="list-style-type: none"> <li>• Robotics and Automation</li> <li>• Artificial Intelligence and Expert System</li> <li>• HVDC Transmission</li> </ul>		Machines
			2010-14	<ul style="list-style-type: none"> <li>• High Voltage Engineering</li> <li>• Special Electrical Machines</li> </ul>
AUC(2008)	6/UG	<ul style="list-style-type: none"> <li>• Fibre Optics and Laser Instruments</li> <li>• Visual Languages and Applications</li> <li>• Advances control System</li> <li>• Robotics and Automation</li> <li>• Professional Ethics and Engineering</li> <li>• Power System Transients</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Professional Ethics and Engineering</li> </ul>
			2012-16	<ul style="list-style-type: none"> <li>• Professional Ethics and Engineering</li> </ul>
	7/UG	<ul style="list-style-type: none"> <li>• Biomedical Instrumentation</li> <li>• Intelligent Control</li> <li>• Power System Dynamics</li> <li>• Computer Architecture</li> <li>• Total Quality Management</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Biomedical Instrumentation</li> </ul>
			2012-16	<ul style="list-style-type: none"> <li>• Biomedical Instrumentation</li> </ul>

		<ul style="list-style-type: none"> <li>• Power Quality</li> <li>• System Identification and adaptive Control</li> <li>• Operation Research</li> <li>• VLSI Design</li> <li>• High Voltage Direct Transmission</li> <li>• Fundamental of Nano science</li> <li>• Micro electro mechanical systems</li> <li>• Software for circuit simulation</li> <li>• Computer Aided Design of Electrical apparatus</li> <li>• Flexible AC Transmission System</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Power Quality</li> <li>• Flexible AC Transmission Systems</li> </ul>
	8/UG		2012-16	<ul style="list-style-type: none"> <li>• High Voltage Direct Transmission</li> <li>• Flexible AC Transmission Systems</li> </ul>
AUC(2013)	6/UG	<ul style="list-style-type: none"> <li>• Visual Languages and Application</li> <li>• Advanced Control System</li> <li>• Power System Transients</li> <li>• Optimization Techniques</li> </ul>	2013-17	<ul style="list-style-type: none"> <li>• Power System Transients</li> </ul>

**Department of Electronics and Communication Engineering**

<b>University</b>	<b>Semester/ Degree</b>	<b>Electives offered by university</b>	<b>Batch</b>	<b>Electives opted by the students</b>
AUC2008 (EW)	6/UG	<ul style="list-style-type: none"> <li>• Medical Electronics</li> <li>• Operating Systems</li> <li>• Power Electronics</li> <li>• Speech Processing</li> <li>• Object Oriented Programming</li> <li>• Numerical Methods and Linear Programming</li> <li>• Network Analysis and Synthesis</li> <li>• Neural Networks and Application</li> <li>• Digital Control System</li> </ul>	2008-12	<ul style="list-style-type: none"> <li>• Medical Electronics</li> </ul>
			2009-13	
			2010-14	
	7/UG	<ul style="list-style-type: none"> <li>• Advanced Microprocessor</li> <li>• Internet and Java</li> <li>• Computer Hardware and Interfacing</li> <li>• Advanced Digital Signal Processing</li> <li>• Electromagnetic Interference and Compatibility</li> <li>• High Speed Networks</li> <li>• Device Modeling</li> <li>• Fuzzy Systems &amp;</li> </ul>	2008-12	<ul style="list-style-type: none"> <li>• Computer Hardware and Interfacing</li> <li>• High Speed Networks</li> <li>• Professional Ethics and Human Values</li> </ul>
			2009-13	<ul style="list-style-type: none"> <li>• High Speed Networks</li> <li>• Professional Ethics and Human Values</li> </ul>

		<p>Engineering Applications</p> <ul style="list-style-type: none"> <li>• Professional Ethics and Human Values</li> <li>• RF MEMS</li> <li>• RFCircuit Design</li> <li>• Nano Electronics</li> </ul>	2010-14	<ul style="list-style-type: none"> <li>• High Speed Networks</li> <li>• Professional Ethics and Human values</li> </ul>
	8/UG	<ul style="list-style-type: none"> <li>• Wireless networks</li> <li>• Telecommunication Switching and Networks</li> <li>• Satellite Communication</li> <li>• Advanced Electronic system design</li> <li>• Optoelectronic devices</li> </ul>	2008-12	<ul style="list-style-type: none"> <li>• Wireless networks</li> <li>• Network Security</li> </ul>
		<ul style="list-style-type: none"> <li>• Telecommunication System Modeling and Simulation</li> <li>• Radar and Navigational Aids</li> <li>• Remote Sensing</li> <li>• Engineering Acoustics</li> </ul>	2009-13	<ul style="list-style-type: none"> <li>• Satellite Communication</li> <li>• Total Quality Management</li> </ul>
		<ul style="list-style-type: none"> <li>• Intellectual Property Rights</li> <li>• Network Security</li> <li>• Microwave Integrated Circuits Design</li> <li>• Network Processors</li> <li>• Genetic Algorithms</li> <li>• Arm System Architecture &amp;</li> </ul>	2010-14	<ul style="list-style-type: none"> <li>• Satellite Communication</li> <li>• Total Quality Management</li> </ul>

		<ul style="list-style-type: none"> <li>applications</li> <li>• Total Quality Management</li> <li>• Consumer and Entertainment</li> <li>• Electronics Engineering</li> <li>• Mobile Adhoc Networks</li> </ul>		
	6/UG	<ul style="list-style-type: none"> <li>• Medical Electronics</li> <li>• Operating Systems</li> <li>• Solid State Electronic Devices</li> <li>• Speech Processing</li> <li>• Numerical Methods Multicore Programming</li> </ul>	2011-15	• Medical Electronics
			2012-16	• Medical Electronics
AUC(2008)	7/UG	<ul style="list-style-type: none"> <li>• Advanced Digital Signal Processing</li> <li>• Total Quality Management</li> <li>• Cryptography and Network Security</li> <li>• Information Theory</li> <li>• Intellectual Property Rights</li> <li>• Professional Ethics n Engineering</li> <li>• Advanced Microprocessors</li> <li>• Internet and Java</li> <li>• High Speed Networks</li> <li>• Soft Computing</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Professional Ethics in Engineering</li> <li>• High Speed Networks</li> <li>• Digital Image Processing</li> </ul>

		<ul style="list-style-type: none"> <li>• Multimedia Compression and Communication</li> <li>• Parallel and Distributed Processing</li> <li>• Digital Image Processing</li> <li>• Electromagnetic Interference and Compatibility</li> <li>• Power Electronics</li> <li>• Television and Video Engineering</li> <li>• Nano Electronics</li> <li>• Avionics</li> </ul>	2012-16	
	8/UG	<ul style="list-style-type: none"> <li>• Embedded and Real Time Systems</li> <li>• Advanced Electronic system design</li> <li>• Opto Electronic Devices</li> <li>• Mobile Adhoc Networks</li> <li>• Wireless Sensor Networks</li> <li>• Remote Sensing</li> <li>• Engineering Acoustics</li> <li>• Wireless networks</li> <li>• Telecommunication Switching and Networks</li> <li>• Satellite</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Embedded and Real Time Systems</li> <li>• Mobile Adhoc Networks</li> <li>• Wireless networks</li> <li>• Telecommunication Switching and Networks</li> <li>• Satellite Communication</li> <li>• Wireless Sensor Networks</li> </ul>

		<p>Communication</p> <ul style="list-style-type: none"> <li>• Telecommunication System Modeling and Simulation</li> <li>• Radar and Navigational Aids</li> <li>• Optical Networks</li> </ul>	2012-16	<ul style="list-style-type: none"> <li>• Satellite Communication</li> <li>• Mobile Adhoc Networks</li> <li>• Wireless networks</li> <li>• Wireless Sensor Networks</li> </ul>
AUC(2013)	6/UG	<ul style="list-style-type: none"> <li>• Medical Electronics</li> <li>• Advanced Digital Signal Processing</li> <li>• Operating Systems</li> <li>• Robotics and Automation</li> </ul>	2013-17	<ul style="list-style-type: none"> <li>• Medical Electronics</li> </ul>
	1/PG	<ul style="list-style-type: none"> <li>• DSP Integrated Circuits</li> <li>• Computer Architecture and Parallel Processing</li> <li>• ASIC and FPGA Design</li> <li>• Analog and Mixed Mode VLSI Design</li> <li>• Security solutions in VLSI</li> <li>• Genetic Algorithms and its applications</li> <li>• Asynchronous System Design</li> </ul>	2013-15	<ul style="list-style-type: none"> <li>• DSP Integrated Circuits</li> <li>• Genetic Algorithms and its applications</li> </ul>
			2014-16	<ul style="list-style-type: none"> <li>• Computer Architecture and Parallel Processing</li> <li>• Genetic Algorithms and its applications</li> </ul>
			2015-17	<ul style="list-style-type: none"> <li>• Computer Architecture and Parallel Processing</li> <li>• Genetic algorithms and its applications</li> </ul>

	2/PG	<ul style="list-style-type: none"> <li>• MEMS and NEMS</li> <li>• Physical Design of VLSI Circuits</li> <li>• Analog VLSI Design</li> <li>• Process and Device Simulation</li> </ul>	2013-15	<ul style="list-style-type: none"> <li>• Physical Design of VLSI Circuits</li> <li>• Real Time Embedded Systems</li> <li>• System on Chip Design</li> </ul>
		<ul style="list-style-type: none"> <li>• Design of Semiconductor Memories</li> <li>• Hardware Software Co-Design</li> <li>• Real Time Embedded Systems</li> </ul>	2014-16	<ul style="list-style-type: none"> <li>• Physical Design of VLSI Circuits</li> <li>• Real Time Embedded Systems</li> <li>• System on Chip Design</li> </ul>
		<ul style="list-style-type: none"> <li>• Nano Scale Transistors</li> <li>• System on Chip Design</li> <li>• Reconfigurable Computing</li> <li>• Submicron VLSI Design</li> </ul>	2015-17	<ul style="list-style-type: none"> <li>• Physical Design of VLSI Circuits</li> <li>• Real Time Embedded Systems</li> <li>• System on Chip Design</li> </ul>
	3/PG	<ul style="list-style-type: none"> <li>• Electromagnetic Interference and Compatibility</li> <li>• Signal Integrity for High Speed Devices</li> </ul>	2013-15	<ul style="list-style-type: none"> <li>• Mixed signal IC Test and Measurements</li> <li>• IP Based VLSI Design</li> </ul>
		<ul style="list-style-type: none"> <li>• Mixed signal IC Test and Measurements</li> <li>• Data Converters</li> <li>• VLSI for Wireless Communication</li> <li>• IP Based VLSI</li> </ul>	2014-16	<ul style="list-style-type: none"> <li>• Mixed signal IC Test and Measurements</li> <li>• IP Based VLSI Design</li> </ul>

		Design <ul style="list-style-type: none"> <li>• Nanoscale Devices and Circuit Design</li> </ul>		
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**Department of Mechanical Engineering**

University	Semester/ Degree	Electives offered by University	Batch	Electives opted by the students
AUC(EW)2008	7/UG	<ul style="list-style-type: none"> <li>• Optimization Techniques</li> <li>• Computational fluid dynamics</li> <li>• Refrigeration &amp; air-conditioning</li> <li>• Internal combustion engines</li> <li>• Turbo machinery</li> <li>• Industrial tribology</li> <li>• Design for manufacture &amp; assembly</li> <li>• Tool design</li> <li>• Management information systems</li> <li>• Software engineering</li> <li>• Unconventional machining processes</li> <li>• Industrial</li> </ul>	2009-13	<ul style="list-style-type: none"> <li>• Unconventional machining processes</li> <li>• Industrial robotics</li> </ul>
			2010-14	<ul style="list-style-type: none"> <li>• Unconventional machining processes</li> <li>• Industrial robotics</li> </ul>

		<ul style="list-style-type: none"> <li>robotics</li> <li>• Micro electro mechanical system</li> <li>• (mems)</li> <li>• Facilities planning and design</li> <li>• Vibration and noise control</li> <li>• Design of plastic components</li> </ul>		
AUC(EW)2008	8/UG	<ul style="list-style-type: none"> <li>• Alternative energy sources</li> <li>• Cryogenic engineering</li> <li>• Nuclear engineering</li> <li>• Energy conservation and management</li> <li>• Product design, development and</li> <li>• life cycle management</li> <li>• Entrepreneurship development</li> <li>• Enterprise resource planning</li> <li>• Production planning &amp; cost estimation</li> <li>• Maintenance engineering</li> </ul>	2009-13	<ul style="list-style-type: none"> <li>• Maintenance engineering</li> <li>• Professional ethics &amp; human values</li> </ul>
			2010-14	<ul style="list-style-type: none"> <li>• Maintenance engineering</li> <li>• Professional ethics &amp; human values</li> </ul>

		<ul style="list-style-type: none"> <li>• Industrial safety</li> <li>• Professional ethics &amp; human values</li> <li>• Rapid prototyping, tooling and Reengineering</li> <li>• Six sigma and lean manufacturing</li> <li>• Project management</li> <li>• Logistics and supply chain management</li> </ul>		
AUC(EW)2008	6/UG	<ul style="list-style-type: none"> <li>• Marketing Management</li> <li>• Quality Control &amp; Reliability Engineering</li> <li>• Refrigeration &amp; Air conditioning</li> <li>• Renewable Sources of Energy</li> <li>• Industrial Tribology</li> <li>• Vibration &amp; Noise Control</li> <li>• Unconventional Machining Processes</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Unconventional Machining Processes</li> </ul>

			2012-16	<ul style="list-style-type: none"> <li>• Unconventional Machining Processes</li> </ul>
AUC(2008)	7/UG	<ul style="list-style-type: none"> <li>• Process Planning &amp; Cost Estimation</li> <li>• Design of Jigs, Fixtures &amp; Press Tools</li> <li>• Composite Materials</li> <li>• Robotics</li> <li>• Thermal Turbo machines</li> <li>• Computational Fluid Dynamics</li> <li>• Nuclear Engineering</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Design of Jigs, Fixtures &amp; Press Tools</li> <li>• Robotics</li> </ul>
			2012-16	<ul style="list-style-type: none"> <li>• Process Planning &amp; Cost Estimation</li> <li>• Nuclear Engineering</li> </ul>
	8/UG	<ul style="list-style-type: none"> <li>• Professional Ethics In Engineering</li> <li>• Entrepreneurship Development</li> <li>• Production Planning and Control</li> <li>• Maintenance Engineering</li> <li>• Operations Research</li> <li>• Fundamentals of Nano Science</li> <li>• Pressure Vessels &amp; Piping Design</li> <li>• Advanced I.C.</li> </ul>	2011-15	<ul style="list-style-type: none"> <li>• Entrepreneurship Development</li> <li>• Advanced I.C. Engines</li> </ul>
			2012-16	<ul style="list-style-type: none"> <li>• Maintenance Engineering</li> <li>• Advanced I.C. Engines</li> </ul>

		Engines • Design of Heat Exchangers		
AUC(2013)	6/UG	<ul style="list-style-type: none"> <li>• Marketing Management</li> <li>• Quality Control &amp; Reliability Engineering</li> <li>• Refrigeration &amp; Air conditioning</li> <li>• Renewable Sources of Energy</li> <li>• Industrial Tribology</li> <li>• Vibration &amp; Noise Control</li> <li>• Unconventional Machining Processes</li> </ul>	2013-17	• Unconventional Machining Processes
AUC(2013)	1/ PG	<ul style="list-style-type: none"> <li>• Optimization Techniques in Design</li> <li>• Composite Materials and Mechanics</li> <li>• Design of Material Handling Equipments</li> </ul>	2013-15 <hr/> 2014-16	• Design of Material Handling Equipments

	2/ PG	<ul style="list-style-type: none"> <li>• Plates and Shells</li> <li>• Modal Analysis of Mechanical Systems</li> <li>• Advanced Metal Forming Techniques</li> <li>• Tribology in Design</li> <li>• Surface Engineering</li> </ul>	2013-15	<ul style="list-style-type: none"> <li>• Tribology in Design</li> <li>• Advanced Metal Forming Techniques</li> </ul>
			2014-16	
	3/ PG	<ul style="list-style-type: none"> <li>• Engineering Fracture Mechanics</li> <li>• Design of Hydraulic and Pneumatic Systems</li> <li>• Design of Pressure Vessel and Piping</li> <li>• Bearing Design and Rotor Dynamics</li> <li>• Advanced Finite Element Analysis</li> <li>• Computational Fluid Dynamics</li> <li>• Design for Manufacture Assembly and Environments</li> </ul>	2013-15	<ul style="list-style-type: none"> <li>• Advanced Finite Element Analysis</li> <li>• Computational Fluid Dynamics</li> <li>• Design for Manufacture Assembly and Environments</li> <li>• Engineering Fracture Mechanics</li> <li>• Design of Hydraulic and Pneumatic Systems</li> <li>• Design for Manufacture Assembly and Environments</li> </ul>

### Department of Mechatronics Engineering

University	Semester/ Degree	Electives offered by university	Batch	Electives opted by the students
AUC(2008)	6/UG	<ul style="list-style-type: none"> <li>• Digital Image Processing</li> <li>• Diagnostic Techniques</li> <li>• Operations Research</li> <li>• Professional Ethics and Human values</li> </ul>	2012- 16	<ul style="list-style-type: none"> <li>• Professional Ethics and Human values</li> </ul>
	7/UG	<ul style="list-style-type: none"> <li>• Digital Signal Processing</li> <li>• Micro Electro Mechanical Systems</li> <li>• Computer Aided Design</li> <li>• Entrepreneurship Development</li> <li>• Computer Networks</li> <li>• Virtual Instrumentation</li> <li>• Industrial Electronics and Applications</li> </ul>	2012- 16	<ul style="list-style-type: none"> <li>• Marketing Management</li> <li>• Product Design and Development</li> </ul>
	8/UG	<ul style="list-style-type: none"> <li>• Advanced Manufacturing Technology</li> <li>• Total Quality Management</li> </ul>	2012- 16	<ul style="list-style-type: none"> <li>• Marketing Management</li> <li>• Product Design and Development</li> </ul>

		<ul style="list-style-type: none"> <li>• Marketing Management</li> <li>• Project Engineering</li> <li>• Database Management System</li> <li>• Rapid Prototyping</li> <li>• Engineering Economics and Cost Analysis</li> <li>• Product Design and Development</li> </ul>		
AUC(2013)	6/UG	<ul style="list-style-type: none"> <li>• Advanced Manufacturing Technology</li> <li>• Total Quality Management</li> <li>• Digital Signal Processing</li> <li>• Product Design and Development</li> </ul>	2013-17	<ul style="list-style-type: none"> <li>• Advanced Manufacturing Technology</li> </ul>

Choice Based Credit System – NA

Courses offered in modular form – NA

Credit transfer and accumulation facility – NA

Lateral and vertical mobility within and across programmes and courses

### **Enrichment courses**

To bridge the industry institute gap, the number of value added courses are offered for updating the knowledge of the students. For each subject, apart from the prescribed topics in the syllabus, additional topics are handled by the faculty members and in laboratory classes additional experiments are conducted beyond the syllabus. The Training and Placement cell conducts various modular training courses towards skill development of the students.

#### **1.2.4 Does the Institution offer self-financed programmes? If yes, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.**

Since, the Institution is a self-financing; all the UG and PG programmes offered are self-financed. Guidelines from the Directorate of Technical Education (DOTE) and Anna University are followed for the admissions.

**TABLE 1.2: PROGRAMMES OFFERED**

<b>DEGREE</b>	<b>COURSE</b>
BE (UG)	Civil Engineering Computer Science and Engineering Electrical and Electronics Engineering Electronics and Communication Engineering Mechanical Engineering Mechatronics Engineering
ME (PG)	Computer Science and Engineering Engineering Design Power Electronics and Drives VLSI Design

**1.2.5 Does the College provide additional skill oriented programmes, relevant to regional and global employment markets? If yes provide details of such programme and the beneficiaries.**

The Training and Placement cell equip the students with appropriate skills relevant to regional and global employment markets.

Periodical awareness programs are conducted by various expert agencies regarding global scenario.

**TABLE 1.3: SKILL DEVELOPMENT PROGRAMS**

<b>CIVIL ENGINEERING</b>		
<b>S.No</b>	<b>Name of the Course</b>	<b>Collabrative University / Industry</b>
1	STADD Pro, Revit Architecture	ELF Global Solutions, Coimbatore
2	Auto CADD	Max CAAD, Coimbatore
3	Revit Architecture, 3D Studio Max.	Max CAAD, Coimbatore
<b>COMPUTER SCIENCE ENGINEERING</b>		
<b>S.No</b>	<b>Name of the Course</b>	<b>Collaborative University / Industry</b>
1	Soft Skills	Fraghren Academy, Tirunelveli
2	Soft Skills	Hope Factory, Coimbatore
3	Course on “CCNA”	Everonn, Coimbatore
4	Course on “Android”	Xplore IT, Coimbatore
5	Course on “PHP and Mysql”	Tecknoturf, Coimbatore
6	Course on “PHP and Mysql”	Xplore IT, Coimbatore

<b>ELECTRICAL AND ELECTRONICS ENGINEERING</b>		
<b>S.No</b>	<b>Name of the Course</b>	<b>Collaborative University / Industry</b>
1	Soft Skills	Fraghren Academy, Tirunelveli
2	Embedded Systems	Everonn, Coimbatore
3	PLC and SCADA	Axis Global Automation, Coimbatore
4	In-Plant Training	Roots Industries India Ltd., Coimbatore
5	Windmills and Training centre	TUV – Rheinland, Germany
6	PLC and SCADA	Genn Automation, Coimbatore
7	PLC and SCADA	Sunrise Automation, Coimbatore
8	Aurdino and Micro Controller	EFY, Coimbatore
<b>ELECTRONICS AND COMMUNICATION ENGINEERING</b>		
<b>S.No</b>	<b>Name of the Course</b>	<b>Collaborative University/Industries</b>
1	Soft skill Training	Fraghren Academy, Tirunelveli
2	Software Training for Core Projects	CAAD Centre, Coimbatore
3	Soft Skills	Hope Factory, Coimbatore
4	Embedded Systems	Everonn, Coimbatore
5	Robotics	Li2 Innovations, Bangalore
6	Windmills and Training centre	TUV – Rheinland, Germany

7	PIC Microcontroller.	Sandroid Automation Personified, Coimbatore
8	VLSI	XPLORE IT CORP, Coimbatore
9	Arduino	EFY Tech centre, Coimbatore
10	PIC Microcontroller	Aztec Embedded Solutions, Coimbatore
<b>MECHANICAL ENGINEERING</b>		
<b>S.No</b>	<b>Name of the Course</b>	<b>Collaborative University/Industries</b>
1	ANSYS	Maxcadd, Coimbatore.
2	CATIA	TVS Group, Explore IT corp, Chennai
3	CREO	ELF Global Solutions ,Coimbatore
4	In-Plant Training	Ammarun Foundries (PVT) Ltd., Coimbatore
5	Windmills and Training centre	TUV – Rheinland, Germany
6	Solid Works	Maxcadd, Coimbatore.
<b>MECHATRONICS ENGINEERING</b>		
<b>S.No</b>	<b>Name of the Course</b>	<b>Collaborative University/Industries</b>
1	PLC & SCADA	Sunrise Automation and solutions, Coimbatore
2	ROBOTICS	AA TEK Robo Pvt Ltd., Coimbatore

**1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice? If yes, how does the Institution take advantage of such provision for the benefit of students?**

Such provision is not given by the affiliating University.

### **1.3 CURRICULUM ENRICHMENT**

**1.3.1 Describe the efforts made by the Institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?**

To integrate the goals and objectives of our Institution with that of the academic programmes, the Institution has evolved additional inputs in the syllabi to face the current trends in competitive areas.

The Institution supplements the University's curriculum by conducting following academic programmes:

Inclusion of additional topics beyond syllabus in the lesson plan.

- ✓ Value added Courses
- ✓ Workshops, seminars and conferences
- ✓ In-Plant Training
- ✓ Industrial visits
- ✓ Placement Training

**1.3.2 What are the efforts made by the Institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?**

Life Skill trainings, verbal communication trainings and aptitude trainings are conducted by the Training and Placement cell of the Institution. The cell continuously interacts with the HR managers of various companies to

discuss about their demand and skill set needed for the students. In order to implement this, regular soft skill, analytical and technical training for students are conducted by the Institution. The elective subjects are chosen to adapt with the needs of evolving engineering career.

**1.3.3 Enumerate the efforts made by the Institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT (Information and Communication Technology) etc., into the curriculum?**

The curriculum prescribed by the Anna University, Chennai, includes subjects on Environment engineering, Professional ethics & human values.

A Women Empowerment Cell which comprises a team of senior female faculty members attends the grievances from women employees and girl students on the gender discrimination and harassment, if any. The cell also conducts various awareness programs among the students on women harassment, motivations and various health issues.

PPGIT is committed to creating a community in which students, teachers and nonteaching staff can be together in an environment, free of violence, harassment, exploitation and intimidation. In order to prevent sexual harassment against girl students and women staff members, a College Complaints Committee has been constituted in our College.

Environmental policy – Our vision is to be an educational Institution harnessing its intellectual resources to take the lead in exemplifying and environmentally responsible community.

The ambience of the Institution is filled with sprawling lawns, avenue trees, and various species of plants which will function as carbon sinks and provide a gleaming green cover.

Various committees are formed to inherit the environmental education to the students through following service schemes.

- ✓ Environment Club
- ✓ National Service scheme (NSS)
- ✓ Youth Red Cross (YRC)
- ✓ Red Ribbon Club(RRC)

These schemes cover the following activities:

- ✓ Medical camp
- ✓ Blood donation camp
- ✓ Tree plantation
- ✓ Environment awareness rallies

#### **1.3.4 What are the various value-added courses / enrichment programmes offered to ensure holistic development of students?**

The Anna University curriculum offers an exclusive subject “Professional ethics and Human Values” which prepares the students to practice proper ethical, moral and professional standards.

MOU signed with Vethathiri Maharishi Institute for Spiritual and Intuitional Education (VISION for Wisdom), World Community Service Centre, Aliyar, Pollachi, and Coimbatore for conducting Yoga classes at our Institution.

#### **Employable and life skills**

To improve team building and organizational skills of the students, they are allotted with the different responsibilities in organizing various events

and activities such as cultural programmes, competitions, seminars, workshops etc.

### **Better Career Options**

The gap between the University curriculum and industry is identified through discussion with industry advisory board and offers value added courses to the students by experts.

To enhance the additional skills of the students, the below listed programs are conducted regularly by

### **Training and Placement Cell**

- ✓ Personality development program.
- ✓ Program for improving communication skills, leadership quotient and the aptitude.

### **Community Orientation**

The College has an NSS team which regularly visits surrounding areas and villages where people are provided awareness on various social, moral, ethical principles and ways of life. NSS team of the College participates in community services / development activities like organizing blood donation camps periodically.

The departments are conducting community outreach and extension activities to instill social responsibility among the students. Community oriented project works are given more importance in the curriculum.

### **1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?**

Feedbacks on curriculum through questionnaires are obtained from the stake holders namely students, senior teachers, eminent parents and experts

from the industries. The relevant and the meaningful suggestions are forwarded to the Chairman of the concerned Board of Studies for favorable consideration.

### **1.3.6 How does the Institution monitor and evaluate the quality of its enrichment programmes?**

The enrichment programmes are monitored and evaluated by the HoD and Principal. The Institution has a very clear and transparent way to monitor and evaluate the quality of various enrichment programmes initiated by it. The quality of the enrichment programmes are analyzed from the feedback given by the benefited. Students and their suggestions are noted and taken into account for improvement and corrective action.

## **1.4 FEEDBACK SYSTEM**

### **1.4.1 What are the contributions of the Institution in the design and development of the Curriculum Prepared by the University?**

Being an Anna University affiliated institute, the curriculum is designed by the Anna University. Besides, the Institution has the practices of interaction through the advisory committee members with the industries frequently in order to access the domain specific skills required by the industries.

### **1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If yes, how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?**

Yes, Semester wise feedback system and periodic class committee meetings provide a platform for the students to express their opinion about the curriculum and they are communicated to the University through faculty, exam cell and the Principal.

**1.4.3 How many new programmes/courses were introduced by the Institution during the last four years? What was the rationale for introducing new courses/programmes?)**

Additional courses have been included in the engineering programme to keep pace with changing needs of the industry.

The following are the various programmes for under graduate and post graduate students started during the past four years:

**TABLE 1.4: NEW PROGRAMMES / COURSES INTRODUCED**

<b>DEGREE</b>	<b>BRANCH</b>
Master of Engineering	Computer Science and Engineering
	Engineering Design
	Power Electronics and Drives
	VLSI Design
Bachelor of Engineering	Mechatronics Engineering

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

### **2.1 STUDENT ENROLLMENT AND PROFILE**

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

##### **Publicity:**

- ✓ Admission notifications are published in reputed newspapers.
- ✓ Advertisement for admissions is given by placing the banners in various cities and rural areas.
- ✓ Publicity is given to the school students by conducting various awareness programs which are helpful to their studies in the College premises.
- ✓ In educational fairs, the stalls are put-up for better publicity.
- ✓ In College website, the brochure is available which will give all the details and facilities offered by the College.
- ✓ Advertisement for admissions is given in radio channels.

##### **Transparency:**

##### **Admission through single window system:**

For UG programs, as per the regulations of Anna University, Chennai “Single window system” is followed for admission process.

For PG programs, common entrance test TANCET is conducted by Anna University, Chennai. Based on the marks obtained in the entrance test, admissions are carried out through “Single window system”.

##### **Admission through management quota:**

The seats under management quota are transparently filled through a separate single window system constituted by the consortium of self-financing Colleges in TamilNadu. The HSC marks have weightage in the admission process

for UG students. For PG students the TANCET mark and marks scored in under graduate program have weightage in process of admission.

**2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.**

Admissions are purely based on merit and availability of seats.

**UG Courses:**

- ✓ Minimum 65% of seats are filled by Anna University (TNEA- Single Window System).
- ✓ Rest of the seats is filled by management, through the consortium of self-financing Colleges in TamilNadu.

The eligibility of candidates seeking admission to the first semester of B.E. / B.Tech. Degree Programme is:

- ✓ The candidate should have passed the Higher Secondary Examinations of (10th +2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four courses of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent there to.

(OR)

- ✓ The candidate should have passed Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

The eligibility of candidates seeking admission to the third semester of B.E. / B.Tech. Degree Programme is

- ✓ The candidate should possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamil Nadu or any other authority accepted by the Syndicate of the University as equivalent there to.

**PG Courses:**

- ✓ Minimum 65% of seats are filled by Anna University (TANCA single window system) and remaining seats are filled by management through the consortium of self-financing Colleges in Tamil nadu.

The eligibility of candidates for admission to the first semester of the Post-Graduate Degree Programme is:

- ✓ The candidate shall be required to have passed an appropriate Under-Graduate Degree Examination of Anna University or equivalent as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria.
- ✓ TANCA releases the updated criteria during the admissions every academic year. Admission shall be offered only to the candidates who possess the qualification prescribed against each programme.
- ✓ Any other relevant qualification which is not prescribed against each programme shall be considered for equivalence by the committee constituted for the purpose.
- ✓ Admission to such degrees shall be offered only after obtaining equivalence to such degrees.

**2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the College and provide a comparison with other Colleges of the affiliating University within the city / district.**

**TABLE 2.1: MAXIMUM AND MINIMUM PERCENTAGE MARKS**

S.No	PROGRAMME	YEAR	ENTRY LEVEL							
			PPG Institute of Technology		Dr.NGP Institute of Technology		Info Institute of Engineering		Kathir College of Engineering	
			MAX CUT-OFF	MIN CUT-OFF	MAX CUT-OFF	MIN CUT - OFF	MAX CUT-OFF	MIN CUT - OFF	MAX CUT-OFF	MIN CUT - OFF
1	B.E CIVIL	2015-2016	183.5	100.2	180.25	106.5	170.00	126.25	120.25	96.5
2	B.E. CSE	2015-2016	190.25	97.25	189.00	124.2	130.75	109.25	132.50	109.2
3	B.E. ECE	2015-2016	192.00	93.75	189.25	111.5	140.00	111.50	150.75	117.7
4	B.E. EEE	2015-2016	188.25	97.00	187.00	75.00	100.75	85.50	120.75	96.00
5	B.E.MCT	2015-2016	169.25	94.00	-	-	-	-	-	-
6	B.E. MECH	2015-2016	186.25	93.75	182.50	122.2	170.75	122.25	170.25	111.5

**2.1.4 Is there a mechanism in the Institution to review the admission process and student profiles annually? If “yes” what is the outcome of such an effort and how has it contributed to the improvement of the process?**

As the admission process is done through Anna University, Chennai there is no mechanism to review the admission process. Similarly for the management quota the norms of the consortium of self-financing Colleges are followed.

**2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the Institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion.**

**SC/ST/OBC**

As per Government norms certain percentage of seats are reserved for students from the SC/ST/OBC communities in Single window system.

**TABLE 2.2: STUDENTS ADMITTED – COMMUNITY WISE**

S.No	Category	2012-13				2013-14				2014-15				2015-16			
		General	SC	ST	OBC	General	SC	ST	OBC	General	SC	ST	OBC	General	SC	ST	OBC
1	B.E.CIVIL	14	7	2	39	34	7	-	89	19	6	-	45	15	7	-	32
2	B.E.CSE	14	2	-	37	15	-	-	19	22	-	-	6	11	1	-	10
3	B.E.ECE	14	3	-	80	15	5	-	48	12	4	-	17	4	2	-	13
4	B.E.EEE	5	3	-	31	15	5	-	29	8	-	-	12	7	2	-	12
5	B.E.MCT	4	-	-	2	21	1	-	38	9	-	-	13	5	2	-	9
6	B.Tech(IT)	2	-	-	26	4	-	1	4	1	1	-	3	-	-	-	-
7	B.E.MECH	23	8	-	53	48	11	-	125	42	5	-	64	30	5	-	75
8	M.E.CSE	6	1	-	11	6	-	-	10	7	-	-	7	4	2	-	3
9	M.E.VLSI	6	1	-	12	1	1	-	13	1	-	-	3	2	-	-	3
10	M.E.PED	-	-	-	-	6	2	-	3	2	-	-	4	-	-	-	11
11	M.E.ED	-	-	-	-	6	-	-	7	1	1	-	8	-	1	-	5
12	MBA	1	-	-	7	-	1	-	3	-	-	-	-	-	-	-	-
13	MCA	1	-	-	8	-	-	-	10	-	-	-	-	-	-	-	-

## **Women**

The College does not discriminate on the basis of gender. For Example, in the current academic year 2014 -15, the percentage of girl students in the circuit branches is 34.5%.

## **Differently-abled**

Special infrastructure arrangements like ramp, elevator and wash rooms are made available for their convenience. Class rooms for the differently abled candidates can be made available in ground floor. So far, no such students have joined in our Institution.

## **Economically weaker sections**

- ✓ The College offers concessions in the payment of the tuition fee for the economically weaker students.
- ✓ Students belonging to this section are also allowed to pay their fees in instalments.
- ✓ The College provides guidance and helps the students for receiving scholarships from various organizations like State Government, Vijayalakshmi Trust etc.

## **Minority community**

As per Government norms, certain percentage of seats is reserved for students from the minority community.

## **Any Other (First Generation Graduate)**

First generation graduates are eligible for a tuition fee concession of Rs 20,000/- for each year as per Tamilnadu Government norms. Admissions based on the marks scored in qualifying examinations enables the students from rural areas to enter the professional courses easily.

**2.1.6 Provide the following details for various programmes offered by the Institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.**

- ✓ The demand for the departments of ECE and Mechanical was increased in the year 2009. So, the intake for ECE was increased in 2011 and for Mechanical the intake was increased in 2012.
- ✓ The demand for the Mechatronics Engineering increased in the year 2011. So, the department of MCT was started in the year 2012.
- ✓ The demand for IT course has come down. So, the intake for IT department was surrendered in the academic year 2015-16.

In recent years, mushrooming of self-financing Colleges has taken place. Government has also established new Colleges. The frontline Colleges have increased the intake for the existing courses to a large extent and also started new courses. The gap between the availability of seats and requirement has widened. So, the Colleges in Tamilnadu are facing a decline in admissions.

## **2.2 CATERING TO STUDENT DIVERSITY**

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

- ✓ The admissions of differently abled category students, is done according to the Government policies.
- ✓ As per Anna University Examination norms, those students are provided extra time in the end semester examination, if required.
- ✓ The Institution has arranged special infrastructures like ramp structure, specially designed wash room and a class room at ground floor for such students.

- ✓ Thus the College adheres to the prerequisite of such students as per the Government policies and guarantee that they don't have any physical hindrance.
- ✓ All the facilities for the differently abled students are provided by the Institution and so far, no such student joined the Institution.

**2.2.2 Does the Institution assess the students needs in terms of knowledge and skills before the commencement of the programme? If yes, give details on the Process.**

Yes, based on their medium of instruction studied and merit marks used in the admission process, students are assessed and the bridge courses are conducted to fulfill their needs.

Table 2.2.2 shows the details about the bridge courses conducted for the past two academic years.

**TABLE: 2.3: BRIDGE COURSES CONDUCTED**

S.NO	DATE	BRIDGE COURSE NAME	NO OF PARTICIPANTS
1.	10.08.2015 to 22.08.2015	MATHEMATICS	190
2.	10.08.2015 to 22.08.2015	TECHNICAL ENGLISH	190
3.	10.08.2015 to 22.08.2015	PHYSICS	190
5.	10.08.2015 to 22.08.2015	COMPUTER PROGRAMMING	190
6.	06.08.2014 to 19.08.2014	MATHEMATICS	210
7.	06.08.2014 to 19.08.2014	TECHNICAL ENGLISH	210

8.	06.08.2014 to 19.08.2014	PHYSICS	210
9.	06.08.2014 to 19.08.2014	COMPUTER PROGRAMMING	210

**2.2.3 What are the strategies adopted by the Institution to bridge the knowledge gap of the enrolled students (Bridge/remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?**

**Bridge Courses:**

Bridge courses are used to improve the knowledge level of the students at the entry level.

- ✓ These courses are conducted for first year students and second year lateral entry students.
- ✓ Various bridge courses are conducted in the field of Mathematics, Physics and Technical English.
- ✓ Language lab plays a major role on developing the knowledge on Technical English.

**Remedial courses:**

- ✓ Remedial courses, re-tests, assignments are provided to the students to improve the academic performance of the slow learners.
- ✓ To improve the read, write and speaking ability of enrolled students special continuous communication training is given through an external agency during their first four semesters.

**Value Added Courses:**

- ✓ The main objective of the course is to reduce the industry-institute gap.
- ✓ To enrich the knowledge of advanced learners, add-on courses are conducted.
- ✓ Details of value added courses are given in Table below.

**TABLE 2.4: VALUE ADDED COURSES**

<b>S. NO.</b>	<b>DEPARTMENT</b>	<b>ACADEMIC YEAR</b>	<b>COURSE TITLE</b>	<b>NUMBER OF STUDENTS BENEFITED</b>
1	CIVIL	2015-2016	Rivet Architecture	74
			STAAD Pro	104
		2014-2015	REVIT Architecture	67
			STAAD Pro	74
		2013-2014	STAAD Pro	67
2.	CSE	2015-2016	ANDROID	51
			PHP, MYSQL & Java	25
		2014-2015	DOTNET	53
			PHP with MYSQL	50
		2013-2014	PHP with MYSQL	51
		2012-2013	MULTIMEDIA	69
		2011-2012	DOT NET	69
			JAVA	63
			CCNA	63
3.	ECE	2015-2016	Basic Electronics Hardware &	25

			Testing	
			Embedded Systems	53
			PCB Designing	25
		2014-2015	Arduino	94
			PIC Microcontroller	53
			Embedded Systems	94
		2013-2014	Embedded Systems	111
			VLSI	111
		2012-2013	Robotics	69
		2011-2012	CAD	71
			Hope Factory (Training, Mentoring, Shaping, Coaching & Personal Encouragement)	72
4.	EEE	2015-2016	Hands on training with Arduino Micro controller	52
			Training in Programmable Logic Controller and SCADA	80
		2014-15	Training in Programmable Logic Controller	115

			and SCADA	
		2013-14	Training in Wind Mills and site visits	70
		2012-13	Training in Programmable Logic Controller and SCADA	55
		2011-12	Training in Embedded Systems	64
			Soft Skills training	64
5.	MCT	2015-2016	ROBOTICS	16
			PLC & SCADA	46
		2014-2015	PLC	17
6.	MECH	2015-2016	AUTO CAD	102
			SOLID WORKS	132
			ANSYS	141
		2014-2015	SOLID WORKS	138
			Pro-E	133
			CATIA	66
		2013-2014	Pro-E	66
			AUTO CAD	66

#### **2.2.4 How does the College sensitize its staff and students on issues such as gender, inclusion, environment etc.?**

##### **Gender:**

A Women Empowerment Cell which comprises a team of senior female faculty members attends the grievances from women employees and girl students on the gender discrimination and harassment, if any. The cell also conducts various awareness programs among the students on women harassment, motivations and various health issues.

PPGIT is committed to creating a community in which students, teachers and nonteaching staff can be together in an environment, free of violence, harassment, exploitation and intimidation. In order to prevent sexual harassment against girl students and women staff members, a College Complaints Committee has been constituted in our College.

Ragging is a criminal offence and UGC/AICTE/Anna University has framed regulations on curbing the menace of ragging in higher Educational Institutions. UGC, AICTE, New Delhi and Anna University, Chennai have issued strict orders to punish the students indulging in ragging. They are liable for the following punishable actions:

- ✓ They will be suspended and dismissed from the College.
- ✓ A fine upto 2 Lakhs will be levied.
- ✓ They will be handed over to the police for the criminal offence and may be sentenced to jail term of 2 ½ years.

In order to prohibit, prevent and eliminate the scourge of Ragging, an Anti- Ragging Committee has been constituted with members from faculty, students and parents.

Special seminars are being conducted on,

- ✓ Women Safety.
- ✓ The importance of Food and Safety welfare awareness program.

**Environment:**

Trees are planted to control emission of CO<sub>2</sub> inside the campus. The PPG ECO GREEN CLUB is functioning effectively in the campus. The campus is surrounded by street lamps embedded with solar panels. Our vision is to educate the students and staff members to use the available resources effectively with environmental responsibility and hence to carry out various steps to maintain green campus. The green club activities include water harvesting, planting saplings and solid waste management. Students of the NSS team keep plastic free campus in coordination with faculty members and students.

Various committees are formed to inherit the environmental education to the students through following service schemes.

- ✓ National Service Scheme (NSS).
- ✓ Youth Red Cross (YRC).
- ✓ Red Ribbon Club (RRC).

These schemes cover the following activities:

- ✓ Tree plantation.
- ✓ Environment awareness rallies.
- ✓ Marathon for various environmental awareness.
- ✓ A Solar Power Plant is functioning in campus which substitutes the 30% total power consumption. A Bio Gas Plant has been erected to produce methane gas by using mess wastes for heating purpose to supplement LPG.



### **2.2.5 How does the Institution identify and respond to special educational/ learning needs of advanced learners?**

Advanced learners are identified based on the academic performance and their special educational needs are met through the following methods:

- ✓ The students are encouraged to do innovative projects.
- ✓ The team works are given for the students to do projects.
- ✓ Value added courses are conducted for the students in various domains.
- ✓ Mini-projects are assigned to the students, depending on their area of interest.
- ✓ Motivational training programs are given for the students to develop their skills.
- ✓ The students are advised to do industrial projects.
- ✓ The students are motivated to present papers in National / International conferences and publish technical papers in journals.
- ✓ Toppers are advised to participate in technical events at inter-College and intra-College levels.
- ✓ Students are encouraged to participate in mini project competitions, scientific exhibitions and workshops with hands-on experience.



**2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the program duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker section etc who may discontinue their studies if some sort support is not provided)?**

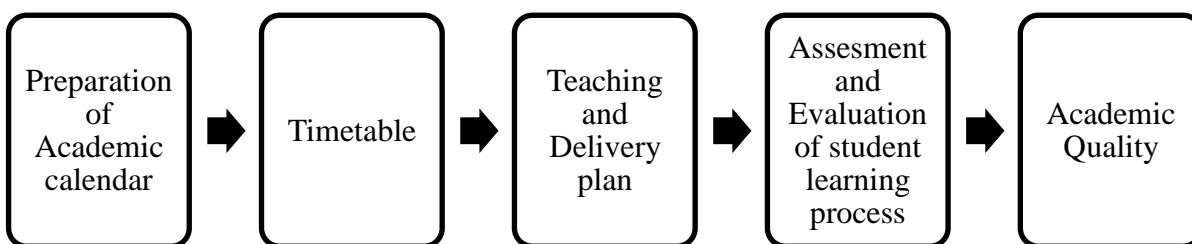
- ✓ The evaluation system of the institute provides complete data of the students regarding their academic performance in unit tests, model exams and University exams. The results are analyzed for every student by various groups in the departments and College level. The performances of the students due to various reasons are identified. The remedial measures are taken in consultation with the student, teacher, tutor, class advisor and HoD.
- ✓ Less than fifteen students are assigned with a faculty member who acts as a tutor for them. A faculty is appointed as class advisor for each class.
- ✓ The tutors and advisors closely monitor the student's academic performance and attendance details.

- ✓ The parents are communicated through letters, phone calls and messages (SMS) which contain the information about the academic performance and the percentage of attendance.
- ✓ The tutor-ward system plays a very important role in addressing the difficulties of the students.
- ✓ The students are counseled by the tutor to help them in solving the personal and academic difficulties.
- ✓ A professional counselor also has been appointed by the College to help them.
- ✓ The question banks are prepared for all the subjects and distributed to the slow learners. The previous year question papers are also provided to them.
- ✓ The faculty members prepare answer key for the internal test and discuss in the classes. Special Care is taken for the failures in the exams by conducting evening classes. Assignments are also given for those students.
- ✓ Economically weaker sections are guided to obtain scholarship from government and various trusts. The management has given a provision to pay the fees in installments. The management also provides merit scholarships and fee concession to deserving economically weaker students.
- ✓ As per Anna University Examination norms, the differently abled students are provided extra time in the end semester examination, if required.

## 2.3 TEACHING LEARNING PROCESS

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

The Teaching Learning process is the backbone of the academic system of any Institution. The Institution plans the teaching, learning and evaluation schedule with the help of the guidelines provided by the Anna University. Each semester consists of 90 working days or 450 periods of 50 minutes each. The academic year starts with the following activities as shown below.



**Academic Calendar:** The calendar furnishes the information about the College rules & regulations, list of working days, unit test schedule and tentative examination schedule.

**Timetable:** According to the University curriculum and syllabus, the timetable is prepared and approved by the HoD and the same is displayed on the class notice board.

#### **Teaching and Delivery plan:**

- ✓ At the beginning of each semester, the HoD gets the subject willingness from the faculty for the forthcoming semester.
- ✓ Based on the faculty willingness and area of expertise, the HoD allocates the subjects for the faculty.

- ✓ Before starting of the semester, the overall timetable coordinator of the College conducts meeting with all department timetable in-charges in order to fix the slots for practical classes.
- ✓ The department timetable in-charges prepare timetable of the staff members for the allotted subjects. The timetable is approved by the HoD, circulated to the staff members and displayed on the notice board in the respective classes.
- ✓ The lesson plan and question bank are prepared based on the syllabus provided by the University, approved by the HoD and it is sent through the mail to their group id by the individual faculty for the allotted subject.
- ✓ Each faculty prepares the course material by referring text books, video lectures and reference books etc. Teaching aids such as presentation, role play would be done. Delivery of additional topics in each unit of the syllabus is also given importance. Previous year University question papers and question banks are given to the students for their preparation.
- ✓ Each faculty maintains a log book for the subject handled by them. Ideally every student is expected to attend all the classes. Students' attendance and unit test marks are entered in the subject log book. In addition to it, the faculty also note down the portions covered in each lecture hour. Log book is verified by the HoD periodically.
- ✓ Master attendance register is maintained for each class in order to calculate the overall attendance percentage of each student.

**Internal Assessment and evaluation of student learning process:**

- ✓ Unit test timetable for all the departments is prepared by the Controller of Examinations and it is circulated to all departments and students.

- ✓ The staff prepares the question paper and it is submitted through the department exam coordinator two days prior to the commencement of the test.
- ✓ Seating arrangement is prepared by the department coordinator and after the approval from the HoD, the same is displayed on the notice board and in the respective classes.
- ✓ The Exam cell conducts unit tests as like University examinations. The list of hall invigilators is prepared by the exam cell and it is sent through email to the HoD.
- ✓ Staff members evaluate the answer scripts based on the evaluation blue print (answer key). The answer scripts are distributed to the students and the students verify it and they put signature in the answer scripts.

### **Academic Quality**

Academic audits are conducted so as to check for deviations and corrective measures are suggested. Tutor-ward meetings are conducted periodically to monitor the student performance and counseling is given to the students if there is a necessity. Class committee meetings, Result analysis meetings are conducted to assess the academic process.

### **2.3.2 How does IQAC contribute to improve the teaching–learning Process?**

Since quality enhancement is a continuous process, the important issues such as academic, higher education, research, employment are discussed and correct decisions are implemented. IQAC monitors the efforts of the Institution and the suggestions are given to improve the academic and administrative performance of the Institution. The procedure of IQAC is as follows:

- ✓ Optimization, integration and monitoring the modern methods of teaching learning and evaluation could be done.

- ✓ Faculty members are motivated to attend various events like seminars, workshops etc on recent technologies.
- ✓ Students' feedback on teaching-learning process is prepared and collected. Feedback is analyzed in order to give suggestions for improving teaching learning process.
- ✓ Guest lectures, seminars, workshops are organized so as to interact with academicians from various Institutions and industrialists in order to improve the teaching quality.
- ✓ Students performance is monitored and counseling is given to the students for further improvement.

**2.3.3. How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?**

Various supportive features are offered by College to its teachers in order to make the learning student centric. Various activities such as,

- ✓ Students are motivated to do industrial projects in the recent technologies through industry institute collaboration.
- ✓ Students are allowed for in-plant training in the semester vacation in various fields.
- ✓ Students can access books from the library for their learning. They can refer journals and other available materials from the library reference section.
- ✓ Communication skills could be developed for the students through the Communication laboratory facility and it is provided as a part of the curriculum.
- ✓ Seminar topics are given to the students and they are motivated to take seminars in order to improve their skills.

- ✓ Value added courses are conducted in order to nurture the students career and make them industry-ready experts.
- ✓ Wi-Fi facility in the campus enables the students to access the internet for their skill development.

#### **2.3.4 How does the Institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?**

The Institution takes special efforts to inculcate and develop creativity among the learners by the following ways:

- ✓ The staff members motivate the students to participate in various activities like paper presentations, project presentations in order to improve their skills vertically and horizontally.
- ✓ Students are advised to do mini projects, innovative projects using the facilities in the laboratory.
- ✓ Students gain knowledge in interdisciplinary subjects through the seminars, discussion with experts and selection of electives.
- ✓ Students are encouraged to develop their organizational, leadership skills by conducting seminars, conferences and national level symposiums and conferences.
- ✓ In-plant training and Industrial visits are arranged for the students.
- ✓ Faculty development programs are conducted to improve the teaching skills.
- ✓ Tutors counsel their wards in order to improve their studies.
- ✓ Students are encouraged for their academic excellence.
- ✓ Training programmes are conducted for the students to think critically and helps the students to face the interview.

**2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? E.g.: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.**

Technologies and facilities available and used by the faculty:

- ✓ Video lectures
- ✓ Use of LCD projectors
- ✓ Expert Lectures
- ✓ NPTEL videos
- ✓ Computers with internet facility in all departments
- ✓ E-learning
- ✓ E-library

**2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?**

College organizes national and international seminars, conferences and workshops.



- ✓ Faculty members and students are encouraged to participate in
- ✓ various national and international seminars, refresher courses and workshops.
- ✓ In plant training and industry visits are regularly arranged to the students.
- ✓ Value added courses for all departments are conducted.
- ✓ Industry persons are invited to share their knowledge with students and teachers.
- ✓ Various guest lectures are arranged.
- ✓ The Institution organizes workshops and seminars by eminent professionals in their respective areas in which the student community and faculty community actively participate. The faculty members are advised to attend the FDP programmes which are conducted by the affiliating University.
- ✓ The management sponsors for conducting FDP programmes regularly to enhance the knowledge of the faculty members.

The Institution has signed MoU with industries like BSNL, MAXCAD Pvt Ltd, EFY Tech Centre, Sunrise Automation, AATEK RoboPvt Ltd, CII, ICTACT, Xplore IT Corp Ltd., Tecknoturf, TUV-Rheinland, Sandroid Automation Personified, ELF Global Solutions for training and development and also provides certificate programmes on embedded systems by PLC Training and CLAD to make the students industry ready. Moreover, the courses facilitate the students to acquire sound foundation in the fundamentals of science and engineering.

- ✓ Laboratories with all facilities in all the departments are kept open even after College hours for students to gain practical knowledge.
- ✓ The faculty members are encouraged and provided on duty to participate and present papers in International / National Conferences and Seminars.

- ✓ The Institution offers Soft skills training, hands-on workshop training and sets up multiple campus placements to assist the students in their career placements.
- ✓ The Institution is active in professional bodies like ISTE, SAE, CII, ICTACT.
- ✓ The management regularly organizes FDP's by experts from Corporate/ Industry and eminent personalities with academic excellence.

**2.3.7 Detail (process and the number of students /benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling /mentoring/academic advice) provided to the students?**

**Academic support**

- ✓ The Institute follows Tutor-Ward system for counseling, mentoring and to improve the academic performance of the students.
- ✓ Academic and personal counseling is provided by the tutors with a maximum of 15 students assigned to each faculty member.
- ✓ The tutors give individual care to the students to improve their academic progress and also provide support on personal issues to think and take important strategic decisions.
- ✓ The class advisor monitors student's attendance and academic performance carefully and instructs the students lacking in attendance to attend the classes regularly. The advisor informs the parents and seeks their co-operation.
- ✓ The class committee meeting is conducted on regular basis to discuss the issues faced by the students in their learning

environment, if any; suggestions and remedial measures are given by the respective HoDs.

- ✓ The students those who are interested in pursuing their higher studies are provided career counseling and the job seekers are assisted with job search strategy by the Training and Placement Cell.

**2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the Institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?**

Faculty members continuously strive to evolve innovative teaching methodologies. Some of the innovative teaching methodologies adopted are:

- ✓ Usage of NPTEL-National Programme on Technology Enhanced Learning.
- ✓ Computers are used for teaching purpose using PPTs and PDFs.
- ✓ Faculty members make use of internet, digital library and online journals to download the study materials to enhance the teaching.
- ✓ Teaching through projects.
- ✓ Usage of LCD/OHP Projectors, Videos etc., for teaching purpose.
- ✓ Faculty members upgrade their methods of delivery based on feedback from students, discussion with peers, and information from internet.
- ✓ The faculty members are encouraged to attend National and International conferences, Faculty Development Program, Workshops, seminars to learn the methodologies that can be involved in innovative teaching.

- ✓ Faculty members who attend these conferences and seminars share their experiences with the students.
- ✓ Faculty members are motivated to pursue higher studies.

### **Impact**

- ✓ Students understand the concepts clearly and unambiguously.
- ✓ Faculties learn how to use these methodologies for effective learning.
- ✓ Enable a better teacher- student relationship and interaction.

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

- ✓ OPAC-Online Public Access Catalog is implemented which can be accessed inside the library.
- ✓ College library is equipped with latest editions of University prescribed textbooks and reference books.
- ✓ Reputed national, international journals can be accessed by students and faculty members.
- ✓ LAN, DELNET and Internet facilities enhance the usage of digital library.
- ✓ A separate library reference section is available for the students and staff.
- ✓ Daily newspapers, magazines and journals are subscribed by the library.
- ✓ The library operates beyond College hours.
- ✓ The catalogues from different publishers are filed and are readily available for reference.
- ✓ One hour per week of library time is incorporated in the regular timetable of each class and teachers assist the students to spend the time usefully.

- ✓ Books for competitive examinations are issued to the students under the special issue scheme.
- ✓ In addition to the well stacked-library, each department has its own library to augment and supplement information to the faculty and students.
- ✓ The librarian helps the departments to purchase the latest edition of the books recommended by the faculty.
- ✓ Regular library meetings are held to improve the facility.
- ✓ Each faculty member can avail 8 books and retain for 90 days and each student can avail 3 books and retain for 14 days, after which renewal is permitted.

**2.3.10 Does the Institution face any challenges in completing the curriculum within the planned time frame and calendar? If ‘yes’, elaborate on the challenges encountered and the Institutional approaches to overcome these.**

The academic calendar and the lesson plan take care of the syllabus coverage to avoid this situation. If the syllabus are not completed in stipulated time frame, extra classes are conducted to complete it.

**2.3.11 How does the institute monitor and evaluate the quality of teaching learning?**

**Monitoring**

- The teaching learning process is monitored by Principal and the HoDs.
- ✓ Surprise visits by the Principal, HoDs during the class hours help in the assessment of real time teaching learning process.
  - ✓ Portions covered are specified in the logbook, is verified by HoD every 15 days once and by Principal every month.

- ✓ After every unit test, result analysis is prepared in the department level and submitted to the Principal.
- ✓ The result analysis meeting is conducted by the HoD and by the Principal.
- ✓ Class committee meetings are conducted by the department to monitor the syllabus coverage, discuss about the difficulties in academic and non-academic issues.
- ✓ Student feedbacks are collected at the end of the semester.
- ✓ Staff self-appraisal forms are collected and evaluated by the HoDs.
- ✓ ISO 9001:2015 internal audits and surveillance audits are conducted regularly to ensure the monitoring of the teaching learning and evaluation process.

### **Evaluation**

The evaluation of students is done by the following processes:

- ✓ Daily tests are conducted for the individual subject to improve the performance in the unit tests.
- ✓ Unit tests are conducted as per the academic calendar.
- ✓ Test papers are corrected by using the evaluation blue print (answer keys), prepared by the faculty and discussed in the class.
- ✓ The consolidated performance of students is analyzed by the faculty, class advisor and it is submitted to HoDs.
- ✓ Performance of a particular class is analyzed by Class Advisor, HoD and the Principal and it is submitted to the Controller of Examinations.
- ✓ The Controller of Examinations analyzes the performance of the all departments and comparative analysis is made.
- ✓ Failures are counseled and motivated to improve the performance by tutor, subject teacher and class advisor.

- ✓ Remedial actions such as assignments and retests are carried out for the failures in the unit test.
- ✓ Review meetings are conducted by the Principal to suggest the strategies, to improve the performance.

## **2.4 TEACHER QUALITY**

### **2.4.1 Provide the following details and elaborate on the strategies adopted by the College in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum**

#### **Recruitment:**

Faculty Members are recruited based on the qualifications prescribed by AICTE for various designations. The recruitment of faculty to all cadres is strictly based on the recruitment policy. Selection is done by duly constituted committees. The procedure followed in selection of faculty members are,

- ✓ Advertisement regarding vacancies in various departments is announced through newspapers.
- ✓ Applications / resumes are received till the last date mentioned in the advertisement.
- ✓ Selection committee / interview panel is constituted.
- ✓ Applications are scrutinized by the selection committee.
- ✓ Intimations of interview date through email / oral communication to the short-listed candidates.
- ✓ Based on the recommendations given by the selection committee, the candidates are informed about the selection.
- ✓ Offer letters are issued to the selected candidates by mentioning the date of joining.
- ✓ Appointment letters are issued to the joining candidates.

**Retention:**

- ✓ The Institution has a stress free environment with academic freedom.
- ✓ Attractive salary is offered matching their qualification and experience.
- ✓ Higher education is encouraged for self development of faculty members.
- ✓ Leave benefits such as Casual Leave, Vacation Leave On Duty (OD), Official On Duties (OOD) and Maternal leaves are available.
- ✓ Faculty members are encouraged to publish papers in National/ International journals.

**TABLE 2.5: FACULTY RETENTION**

YEARS OF EXPERIENCE IN PPGIT	DEPARTMENTS						
	CSE	CIVIL	ECE	EEE	MECH	MCT	S&H
1	1	12	1	-	6	3	1
2	6	1	8	3	7	1	9
3-4	9	5	9	7	5	2	9
5-6	6	-	7	4	1	-	5
7	1	-	1	1	-	-	3

**TABLE 2.6: FACULTY DETAILS**

HIGHEST QUALIFICATION	PROFESSOR		ASSOCIATE PROFESSOR		ASSISTANT PROFESSOR		TOTAL
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
PERMANENT TEACHERS							
Ph.D.	5	1	-	1	2	-	9
M.Phil	3	-	1	-	8	14	26
PG	-	-	3	1	94	33	131
Total	8	1	4	2	104	47	166

**2.4.2 How does the Institution cope up with the growing demand / scarcity of qualified senior faculty to teach new programmes / modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the Institutions in this direction and the outcome during the last three years.**

- ✓ Faculty members are encouraged to undergo workshops, seminars, conferences and FDPs to update their knowledge in latest technology.
- ✓ Internet and library facilities are provided for the staffs opting for higher qualifications beyond College working hours.

**2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the Institution in enhancing the teacher quality.**

- ✓ The Institution organizes Faculty Development Programmes for the benefit of staff members and update their knowledge with latest emerging trends.
- ✓ Laboratories are equipped with LCD projectors and faculties are insisted to use.
- ✓ Faculties are encouraged to learn new technologies by providing them with required laboratory facilities.

**TABLE 2.7: FDPs' CONDUCTED IN OUR COLLEGE**

<b>S.NO</b>	<b>NAME OF THE EVENT</b>	<b>PERIOD</b>	<b>RESOURCE PERSONS FROM</b>
1	IC Design Flow using Mentor Graphics Tool	29 & 30 Jan 2015	Mr.Bikash P. Mr. Vidhyasagar M.K. Corel Technologies, Bangalore
2	Instructional Methodology	16 & 17 Nov 2015	Mr. Devaneyan S. PPGIT, Coimbatore
3	A solution to Global Warming through Renewable Energy	17 Nov 2015	Mr. Devaneyan S. PPGIT, Coimbatore
4	Earthquake Resistant Structures	15 & 16 Dec 2015	Dr.Subramanian K. Dr.Muthuraj, CIT, Coimbatore.
5	Application of MATLAB and Publication using LateX in Research	29 & 30 Dec 2015	Dr.S.Albert Alexander

**2.4.4 What policies / systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications, teaching experience in other national Institutions and specialized programmes industrial engagements etc.)**

- ✓ Staff members are encouraged and allowed to pursue higher studies in their respective fields.
- ✓ On duty facility is provided to the staff members who are pursuing higher studies.
- ✓ Staff members are encouraged to organize / participate national / international level conferences, publish papers in national / international journals.
- ✓ Faculty members are encouraged to receive grants from various agencies like UGC, ICMR, DRDO, ISRO, Anna University and etc.

**2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the Institutional culture and environment contributed to such performance / achievement of the faculty.**

- ✓ The Institution continuously supports the faculty members for their higher studies
- ✓ There are 4 faculty members completed their Ph.D. and 14 faculty members doing their Ph.D.

**2.4.6 Has the Institution introduced evaluation of teachers by the students and external peers? If yes how is the evaluation used for improving the quality of the teaching-learning process?**

- ✓ Evaluations of teachers are carried out by the class committee meeting and feedback given by the students.

- ✓ Class committee meetings are conducted thrice in a semester to get the feedback from students.
- ✓ Quality of teachers is marked by the concerned Heads of the Departments and the data is submitted to the Principal.
- ✓ The Institution can measure the quality of teaching faculties from the evaluation report generated by the Principal.
- ✓ The evaluation report helps to improve the quality of teachers.

## **2.5 Evaluation Process and Reforms**

### **2.5.1 How does the Institution ensure that the stake holders of the Institution especially the students and faculty are aware of the evaluation processes?**

- ✓ As per the directions from Anna University, unit and model examination schedules are prepared by Exam cell and added to academic calendar which is prepared as pre-semester academic work.
- ✓ During the orientation programmes, the newly joined faculty and the students are clearly instructed on the evaluation scheme and the attendance required for the University semester examinations.
- ✓ Academic calendars are available in intranet for student's reference.
- ✓ Question papers are prepared by the concerned subject faculties and submitted to the Exam cell two days before the commencement of unit tests.
- ✓ Unit Tests and Model Exam Papers are evaluated by concerned staff members and result analysis is prepared within three days after the exams / tests.
- ✓ Evaluated answer scripts are issued and collected to the students by the concerned subject faculty members to make them aware of evaluation process.

- ✓ The corrected answer scripts are maintained throughout the semester and are accessible to the students.
- ✓ Performance analysis is prepared by class advisors, and discussed with HOD/Principal for further improvement.
- ✓ Consolidated result analysis copy is displayed in the respective classes.
- ✓ In class committee meetings, academic performance is discussed with the student's alongwith the subject handling faculty members.
- ✓ Review meetings are conducted by the Principal for further improvement in academic performance.
- ✓ Result analysis for Unit Test, Model Exam and University Exam are sent to the parents through SMS.
- ✓ Periodic reviews are conducted to monitor the progress of the student projects and the review status is displayed in the notice boards.
- ✓ Internal marks and attendance of the students are uploaded in Anna University web portal periodically.
- ✓ As the students have access to Anna University web portal, attendance and the internal mark calculations are made in a transparent way.
- ✓ Individual subject log books are maintained by the faculty members for each subject every semester in which the attendance for each lecture/ practical/project work hour, the portions covered during each hour, and unit test marks are recorded.
- ✓ Each subject log book is submitted to the Head of the Departments periodically so that syllabus coverage and the entry of attendance and test marks are monitored and ensured.

**2.5.2 What are the major evaluation reforms of the University that the Institution has adopted and what are the reforms initiated by the Institution on its own?**

- ✓ With reference to the Anna University academic schedule, the dates for unit tests and the academic calendar are prepared by Exam cell in consultation with the respective departments.
- ✓ The internal test marks and attendance are uploaded in University Web portal for each student periodically.
- ✓ If any discrepancies are found in the University question paper, the same is intimated to the University through the Principal.
- ✓ The grievances if any, are intimated to the exam cell by the departments and remedial actions are taken in consultation with the Principal.
- ✓ Based on the review meetings conducted by the Principal, reforms have been initiated by the Institution.
- ✓ From the academic year 2013-14, “Daily Tests” are conducted for one hour in the morning first hour to improve the student’s regular reading habits.
- ✓ From the academic year 2014-15, “Unit Tests” are conducted for one and half hour after completion of each unit. For each unit, a separate test is conducted for fifty marks.
- ✓ Special squad is appointed to track any malpractices during the internal examinations and necessary actions are taken.
- ✓ Students remedial classes for the slow learners and special guidance for the fast learners are conducted based on their performances.

**2.5.3 How does the Institution ensure effective implementation of the evaluation reforms of the University and those initiated by the Institution on its own?**

Unit tests will be conducted after the completion of every unit. The answer scripts are evaluated by the faculty after the unit tests and the evaluated scripts are given to the students to verify the paper. Number of failures from the unit tests is taken as a guideline and special coaching classes are conducted for those students.

After the University semester results are published, if the students are willing to apply for the revaluation of the answer scripts, they can apply for the photocopy of the particular paper. The paper is reviewed by the respective staff member before applying for revaluation.

**2.5.4 Provide details on the formative and summative evaluation approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.**

- ✓ Daily tests are conducted to improve the performance of students.
- ✓ Unit tests are conducted and the mark statements are uploaded thrice in a semester. Model examinations are conducted at the completion of syllabus in all subjects to improve the performance in University examinations.
- ✓ To improve the practical knowledge, students are assigned to do project works as a team.
- ✓ Students are motivated to take seminar classes on new technologies and innovative topics.
- ✓ To get exposure about new technology and ideas, students are advised to attend in-plant training to gain practical knowledge.

- ✓ Industrial visits are arranged for the students to impart more practical knowledge in their field.

### **2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)**

#### **Improvements in Internal:**

Hourly tests, unit tests, monthly attendance and assignments are used to monitor and improve the performance of students. Evening classes for the hostel students, retests and coaching classes are arranged for slow learners. Student seminars, assignments and group discussions help in the student's behavioral aspects, independent learning, and their communication skills.

#### **Transparency in Internal Assessment:**

Test papers are evaluated by the staff members and discussed in the class rooms. The results of the unit tests, model exams are uploaded from time to time in the University web portal, from which the internal assessment is compiled by the affiliating University. Students can view their attendance and internal test marks in web portal at any time. For every unit test, the performance of wards is sent through SMS to their parents. Attendance percentage for those who are having less than 75% will be intimated to the parents by SMS and also through letters in critical cases.

#### **Weightage for behavioral aspects:**

The staff members give counseling to the students about their performance in academic activities, behaviour and personality development. During the campus selection process, this will help the students to perform better. Training sessions are arranged by the training and placement cell to develop various skills among the students for overall improvement.

**2.5.6 What is the graduate attributes specified by the College / affiliating University? How does the College ensure the attainment of these by the students?**

Graduate attributes specified by the College and the attainments of these by the students are enumerated below:

**Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

**Problem Analysis:** Identify, formulate, review literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

**Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, social and environmental considerations.

**Conduct investigations of complex problems:** Using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.

**Modern Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

**Life-long Learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**Individual and Team Work:** Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

**Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

**Ethics:** Apply and commitment to professional ethics, responsibilities and norms of engineering practice.

The above mentioned attributes are ensured by

- ✓ Effective Teaching learning methods.
- ✓ Adequate Lab facilities.
- ✓ Project Work.
- ✓ Industry institute interaction.
- ✓ Extension and out-reach programs.
- ✓ Developing leadership quality as organizers.
- ✓ Motivate to become an entrepreneur.
- ✓ Developing Employability skills.
- ✓ Motivate to do higher education and research.

And also these attributes impart social and professional skills and emphasized in the culture and work norms of the Institution. Possessing good technical skills

and professional ethics to a suitable job, sensitivity towards the society they serve and the environment in which they live in are important.

### **2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the College and University level?**

#### **College level:**

- ✓ After the completion of each unit test, the answer scripts are evaluated and distributed to the students.
- ✓ The grievances regarding the evaluation are represented by the students to the concerned subject faculty.

#### **University level:**

- ✓ Discrepancies in the University question paper are intimated to the exam cell by the subject handling staff member.
- ✓ The Controller of Examinations represents the discrepancies to the University through the Principal.
- ✓ After the publication of the semester examination results by the University, students have provision for receiving photo copy and applying for revaluation of their answer sheets.
- ✓ The subject handling staff member evaluates the photocopy and recommend for revaluation if necessary.
- ✓ The application for the revaluation is sent to the University by the Controller of Examinations.
- ✓ The University publishes the revaluation results after completion of the process.
- ✓ The students can apply for challenge revaluation if they have any disagreement in the revaluation results.
- ✓ The amount paid for the challenge revaluation is refunded to the student, if the student get higher grade / pass.

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

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

All UG and PG programmes have clearly defined outcomes that are documented and approved by the HoDs. The learning outcomes of each unit for each subject are added in the subject lesson plans. The lesson plans are circulated. The staff members will discuss about the objectives and outcomes of the subjects in the introduction classes.

### **2.6.2 Enumerate on how the Institution monitors and communicates the progress and performance of students through the duration of the course programme? Provide analysis of the students results / achievements (Programme / course wise for last four years) and explain the differences if any and patterns of achievement across the programme / courses.**

- ✓ The academic performance and their attendance percentages are intimated to the parents through letters and SMS.
- ✓ Every student is allotted with a separate tutor. The tutors / class advisor regularly monitors the student activities and their test / examination performances. The progression of the student is discussed with him and intimated to their parents through letters.
- ✓ Parents are advised to meet the Tutor/HoD and discuss about the performance of the students.

The analysis of percentage of graduates with respect to academic year is illustrated below in table 2.8

**TABLE 2.8: PERCENTAGE OF GRADUATION**

<b>Academic Year</b>	<b>CSE</b>	<b>EEE</b>	<b>ECE</b>	<b>CIVIL</b>	<b>MECH</b>
<b>2008-2012</b>	82%	64%	-	-	-
<b>2009-2013</b>	73.5%	65.4%	77%	-	72.58%
<b>2010-2014</b>	66.7%	58.5%	81%	70%	54.05%
<b>2011-2015</b>	74.5%	46.6%	65%	51%	40.57%

**2.6.3 How are the teaching, learning and assessment strategies of the Institution structured to facilitate the achievement of the intended learning outcomes?**

- ✓ The Institution aims at enhancing the quality of learning, teaching and assessment by providing academic leadership for the sustained growth in academic practice.
- ✓ Lesson plans are prepared by the concerned subject teacher before the starting date of semester.
- ✓ As per the lesson plan, the contents are delivered to the students and it is monitored by HoDs/Dean. The content delivered is recorded in the individual subject Log books.
- ✓ Unit tests and Model exams are conducted to evaluate the performance of students.
- ✓ Unit Test and Model Exam schedules are prepared by the Exam Cell.
- ✓ Question papers are prepared by concerned subject staff and sent to the exam cell where they are printed and kept as a confidential one.

- ✓ The performance of students in Unit Test, Model Exam and University exam are informed to the students and parents through letters and SMS.
- ✓ For the failure students, special coaching classes are conducted to improve the performance of students as corrective action.
- ✓ The Training and Placement Cell guides in employment of the students.
- ✓ A systematic approach has been structured in teaching, learning and assessment strategies and they are monitored by ISO and IQAC teams.

**2.6.4 What are the measures/initiatives taken up by the Institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students) of the courses offered?**

- ✓ The Institution has structured committees like Placement Cell, R&D Cell, Career Guidance cell, NSS, YRC, RRC and allocation of tutors to help students to undertake social and economic responsibilities to attain great achievements.
- ✓ Knowledge sharing has been done by conducting presentations and seminars in the core group.
- ✓ Value Added courses, training, lectures, invited talks on industry practices and changing trends helps in enhancing placement opportunities.
- ✓ Seminars, workshops, Symposiums, MoUs and Projects ensure the enhancement of innovation and research aptitude among the students.

- ✓ Students are encouraged to do industrial projects through industry institute partnership, so that they can get exposure on current trends of the field.

### **2.6.5 How does the Institution collect and analyze data on student learning outcomes and use it for planning and overcoming barriers of learning?**

- ✓ Learning outcomes are measured by the student academic performance.
- ✓ Exam Cell prepares the results analysis of the departments.
- ✓ Student feedbacks are collected and result analysis are discussed in Class Committee meetings to find out the barriers of learning in student level.
- ✓ Alumni feedbacks are collected in alumni meet or at the time of visit of the alumni to reduce the barriers of learning.
- ✓ ISO system and IQAC procedures help in collecting and analyzing the data from the departments.
- ✓ Department meetings are conducted in particular intervals to analyze the academic performance and discuss the probabilities to overcome the barriers of outcomes.
- ✓ Principal meeting is conducted to analyze the results and feedback from students. The changes are made in policy if required.
- ✓ Slow learners and students with difficulty in learning are counseled by counselors and remedial actions are taken. Question bank with answers and study materials are provided for each subject.

**2.6.6 How does the Institution monitor and ensure the achievement of learning outcomes?**

The effective teaching learning process is monitored by,

- ✓ Regular visit by the HoDs / Dean to the class rooms.
- ✓ Class committee meetings.
- ✓ Student feedback system.
- ✓ Periodical departmental meetings.
- ✓ Records available in the log books, ISO and IQAC.

The outcome of teaching learning process is measured by the evaluation system framed by the institute and the University. The achievement of outcome is obtained through the performance and feedback from the stakeholders. Based on this, the policies are framed to overcome the barriers towards the achievement of the Institution.

**2.6.7 Does the Institution and individual teachers use assessment / evaluation as an indicator for evaluating student performance, achievement of learning objectives and planning? If “yes” provide details on the process and cite a few examples.**

Yes, the Institution uses both the assessment and evaluation as an indicator for evaluating student’s performance. The structure of the teaching, learning and assessment process of the Institution, leads to regular assessment of the academic performance. The regular monitoring and analysis of the evaluation indicates the level of attainment of the learning objectives. The short falls and achievements are analyzed and policies are framed to attain the learning objectives to improve the academic performance. Remedial actions are taken through personal counseling, retests, assignments and extra classes.

### **CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION**

#### **3.1 PROMOTION OF RESEARCH**

##### **3.1.1. Does the Institution have recognized research centers of the affiliating University or any other agency/organization?**

At present the Institution has no research center recognized by the University. Departments are working towards obtaining recognition for R & D Centers.

##### **3.1.2. Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition?**

Yes, The College has constituted a dedicated team of Research Advisory Committee functioning under Research and Development Cell to encourage faculties and students to carry out research at the undergraduate level, post graduate level and research leading to Ph.D.

Our aim of R & D cell is to

- ✓ To acquire new scientific knowledge.
- ✓ To design novel methodologies in all the fields of Engineering and Technology.
- ✓ To improve number of publications, quality of projects and file patents.

The Research Advisory Committee consists of well experienced, academic members to guide and co-ordinate the research related issues of each department as below:

Convener	:	Dr.R.Prakasam (Principal)
R&D Coordinator	:	Mr.S.Devaneyan (HoD - MCT)
Members	:	Dr.V.Bindhu (HoD - ECE) Dr.P.P.Joby (HoD - CSE) Dr.D.Sumathi (Professor -CSE) Mr.Sathiaseelan P (HoD - CIVIL) Mr.Rajeswari D (HoD - MECH)

The following are the few recommendations made by the committee in promoting and implementing research activities.

- ✓ Encouraging Faculty members and students to enroll as members in Professional Societies such as ISTE, CSI, and IEEE etc.
- ✓ Taking efforts to get approval for individual departments as recognized research centers.
- ✓ To create a research culture in the Institution, Research awareness programs are to be conducted.
- ✓ Encouraging faculty members to submit project proposals to various funding agencies.
- ✓ Encouraging faculty members to take up inter disciplinary research projects.
- ✓ Inviting eminent personalities from reputed Universities / industries.
- ✓ Motivating faculty members and Students to organize and participate in more number of workshops relevant to their area of research.
- ✓ Motivating faculty members to involve in consultancy works with industries which may generate revenue to the faculty and College as well.
- ✓ Motivating the faculty members with M.E./M.Tech. Qualifications to register for Ph.D.
- ✓ Motivating the PG students to publish one paper out of their project work in peer-reviewed journals.
- ✓ Recommending incentives for publications in international/national journals with good impact factor.

### **3.1.3. What are the measures taken by the Institution to facilitate smooth progress and Implementation of research schemes / projects?**

- ✓ The committee meets once in 6 months and discusses the policies, sets guidelines and reviews the status of ongoing research proposals.
- ✓ The meetings are focused on issues like guiding the faculty and students to get funded research projects, to encourage quality research work by the research scholars etc.
- ✓ The Principal investigator is given the autonomy.
- ✓ Institution ensures the timely availability of resources for the execution of the projects as per plans on the request of the Principal investigator.
- ✓ On duty is provided to attend doctoral committee meetings, viva voce, presentation and other research related activities.
- ✓ The departments provide facilities such as personal computer with internet connectivity, Wi-Fi, LAN, on-line and digital resources, access to e-journals etc.
- ✓ Faculty members are encouraged to make use of various research related softwares', technical books, equipment, etc. to cater their needs.
- ✓ Workloads are adjusted to help them in carrying out the research work smoothly.
- ✓ The finance department of the institute helps in the preparation of audited utilization certificate.
- ✓ The administrative staff assists in submission of utilization certificate to the funding authorities as and when required.
- ✓ The institute appreciates the faculty members who complete their research and awards them suitably.

### **3.1.4 What are the efforts made by the Institution in developing scientific temper and research culture and aptitude among students?**

- ✓ The Institution periodically organizes National level and International level conferences and brings eminent researchers and well experienced academicians to enlighten the gathering on research and current trends in industry.
- ✓ The Institution so far has organized one International Conference - ICTCE (International Conference on Computing Techniques, Embedded Systems and Drives) and many national conferences from various departments and brought experts from around the globe especially from University Malaysia., Perlis, Indian Institute of Science, Bangalore etc. to promote the research culture among students and faculty members.
- ✓ Students are motivated to undergo industrial training, internships during their semester holidays.
- ✓ Students are constantly encouraged to do mini projects to gather practical knowledge.
- ✓ The PG students are encouraged to take up industrial projects. Students are motivated to publish papers in journals from their research projects.
- ✓ Guest Lectures related to preparation of project proposals and Journal papers, research opportunities and challenges are conducted.
- ✓ Students are highly motivated to apply for research grants available for students and they have also won grants for their research projects.
- ✓ Encourage students to participate in research oriented seminars and workshops at national and state levels by providing appropriate financial support and on duty.

- ✓ To inculcate scientific temper and research culture to bridge the Industry-Institution gap, students are taken for industrial visits to various companies periodically.
- ✓ Faculty members are encouraged to take part in the conferences that are organized by the premier Institutions in the country and abroad.
- ✓ Students are also motivated to take part as joint authors to present scientific papers in National and International conferences.
- ✓ The students are encouraged to actively participate in various committees of the academic events, and it helps them to interact closely with the invited experts from various parts of the country.

**3.1.5. Give details of the faculty involvement in active research (Guiding student research, leading research projects, engaged in individual/collaborative research activity, etc.)**

Faculty members acting as research supervisors for guiding research scholars under various Universities are as follows:

**TABLE 3.1: RESEARCH SUPERVISORS**

S.No	Name of the Faculty	University	No. of Research Scholars	
			Pursuing	Completed
1	Dr.R.K.Gnanamurthy	Anna University	12	1
2	Dr.D.Elangovan	Karpagam University	1	-
		Anna University of Technology, Coimbatore	2	-
3	Dr.V.Bindhu	Anna University	-	-

**TABLE 3.2: FACULTY PURSUING RESEARCH**

<b>S.No.</b>	<b>Name of the Staff</b>	<b>Department</b>	<b>Year of Registration</b>	<b>Name of The University</b>
1	Mr.N.Kumareshan	ECE	2012	Anna University
2	Mr.N.Arun Vignesh	ECE	2012	Anna University
3	Mr.V.Premchandran	ECE	2012	Anna University
4	Mr.V.S.Nishok	ECE	2012	Anna University
5	Mrs.S.Sofia	ECE	2012	Karpagam University
6	Mr.S.Devaneyan	MCT	2013	Gandhi Gram Rural University
7	Mr.B.Rajnivas	MCT	2012	Karpagam University
8	Mr.V.Saravanakumar	EEE	2011	Anna University
9	Mr.R.V.Rangarajan	Mech	2012	Anna University
10	Mrs.D.Rajeswari	Mech	2012	Anna University
11	Mr.C.Karuppanasamy	EEE	2016	Anna University
12	Mr.C.L. Chinnadurrai	EEE	2016	Anna University
13	Mrs.I.Rajarajeswari	EEE	2016	Anna University
14	Mrs.T.Poongodi	CSE	2011	Anna University

**3.1.6. Give details of the workshops/training programmes/sensitization programmes Conducted/ organized by the Institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.**

Our Institution frequently conducts technical programmes in association with leading industries and foreign universities. Many technical programmes are being

fully sponsored by our management and conducted in collaboration with various industries as knowledge partners to encourage interaction with outside world and the list of activities for the previous four years are given in the following table.

**TABLE 3.3: WORKSHOPS AND TRAINING PROGRAMMES**

<b>Year</b>	<b>No. of Workshops and Training Programmes Conducted</b>
2011 – 2012	8
2012 – 2013	10
2013 – 2014	6
2014 – 2015	17

The following is the list of capacity building activities carried out towards research and imbining research culture.

**TABLE 3.4: INTERNATIONAL CONFERENCE**

**International Conference on Computing Techniques, Embedded Systems & Drives - ICCED'12**

<b>Key Note Speech on</b>	<b>Speaker</b>
Computing Techniques, Embedded Systems and Drives	Dr. S. N. Sivanandam, Emeritus Professor, Guest of Honor
	Dr. Paulraj Murugesu Pandiyan, Associate Professor, University of Malaysia, Perlis- Malaysia, Chief Guest
	Dr. Radhakant Padhi, Associate Professor, Indian Institute of Science, Bangalore, Keynote Speaker

**TABLE 3.5: DEPARTMENT LEVEL SEMINARS / WORKSHOPS /  
CONFERENCES**

<b>ELECTRONICS AND COMMUNICATION ENGINEERING</b>			
<b>Academic Year</b>	<b>Date</b>	<b>Name of the Programme</b>	<b>Resource Persons / Institutions</b>
2010-11	15.02.2011	National Level Workshop on Recent Trends in Optical Communication	Dr.V.Prithiviraj,B.E Ph.D., M.I.E.E.E., Principal., Pondicherry Engineering College Mr.D.Shankar Nair., Regional Manager South India & APAC., Falcon Electro Tek Pvt Ltd
2011 - 2012	06.01.2012	First National Conference on Telecommunication and Control Engineering - NCTCE'12	Dr. B.C.Pillai Dean,Research Karunya University, Chief Guest Dr. N.J.R Muniraj, Principal,Tejaa Shakthi Institute of Technology, Coimbatore, Keynote Speaker

2012 - 2013	16.07.2012	Seminar on Model Based Embedded System	Mr.M.Illango (Robust Enlite)
	20.07.2012	Seminar on Embedded System and Application	Mr.Sundaramoorhthy (A-Team & Intelogies)
	27.07.2012	Seminar on Robotics	Mr.Arvind Nadig Managing Director Li-2 Innovations
	30.07.2012	Seminar on VLSI and Embedded Systems	Mr.B.A.Basha (Log It Technologies)
	25.08.2011 & 26.08.2011	Workshops and Seminars in Robotics	Mr.Arvind Nadig, Managing Director, Li-2 Innovations Pvt Ltd.
	04.03.2013	Second National Conference on Telecommunication and Control Engineering NCTCE'13	Dr.K.Thanushkodi, Director - ACET
2014 - 2015	13.02.2015	Workshop on Simulating Tools in Electronics Engineering	Mr.V.Premchandran Mr.S.V.Ramanan, Department of ECE
	11.07.2015	Guest Lecture on Emerging Trends in Embedded Systems	Mr.Sudalai, PANTECH Solutions, Coimbatore

2015 - 2016	29.07.2015	Seminar on Android	Propulsion Technologies, Coimbatore
	01.08.2015	Seminar on Entrepreneurship	Mr.Gowtham, Universal Power Supplies, Coimbatore
	21.08.2015	Workshop on Hands on training in Embedded	Aze-Tech, Coimbatore
	10.09.2015	Seminar on Robotics & Its future	Mr, Prakash, VEE XPLORE, Coimbatore
<b>MECHATRONICS ENGINEERING</b>			
2014 - 2015	27.09.2014 to 29.09.2014	i3 Expo at Codissia, Coimbatore.	Prof. Devaneyan. S R&D Head, PPGIT
	26.02.2015 & 27.02.2015	Renewable Energy Exhibition	Mrs. Shanthi Thangavelu Correspondent, PPGIT
	02.03.2015	MNRE sponsored National level technical symposium on Renewable Energy	Mr. Devaraj. M Managing Director, Dev Solar Pvt. Ltd.
2015 - 2016	16.11.2015 to 18.11.2015	Faculty Development Programme on Solar Power Plant	Prof. Devaneyan. S Head of the Department Mechatronics Engineering, PPGIT
	28.01.2016	MNRE sponsored	Mr. Anbazhagan. P

	& 29.01.2016	national level technical seminar on Decentralized Solar Power System for rural and urban areas	CEO, MAS Solar System Pvt. Ltd. Mrs. K. Suganthi Managing Director, MAS Solar System Pvt. Ltd.
	03.02.2016 to 05.02.2016	State Level Solar Exhibition for school students	Prof. Devaneyan. S R&D Head, PPGIT
<b>COMPUTER SCIENCE ENGINEERING</b>			
2010-11	23.09.2011	National Level Workshop on NS2	Dr. Radhika N. Professor, Amirtha vidya Peedam
2011-12	22.02.2012	National Conference on Emerging Trends	Mr.Ranga Rajagopal, Director & CEO ACENET Technologies
	16.07.2012	Multimedia	Mr.Ramesh & Mr.Balasubramanian- CSC Software View
	25.07.2012	Logistics	Mr.Mahesh Babu – Head Stones Logistics

	29.08.2012	Image processing	Mr.Ismail & Mr.AnanthaKumar Maya Image
	03.09.2012	Cloud Computing	Mr.R.Udhaya kumar Universal IT
	04.09.2012	Software Testing	Mr.GokulaKrishnan & Mr.Ganesh, MountZion Technologies
	05.08.2011	National Conference on Computing	Dr.K.Thanushkodi, Director ,ACET
2013 - 2014	09.07.2013	Metrocity Awareness	Ms.Priya PR3 Systems
	16.07.2013 - 19.07.2013	Open Source Technology	Mr.Kaliappan & Ms.Juliet Rani Accent Technologies
	20.07.2013	Current Trends in IT Industry	Mr.Nandhakumar Purplepro Infotech
	03.08.2013	PHP	Mr.K.Prabu 4S Software Solutions
	28.01.2014	Essentials in PHP & MYSQL	Mr.V.Ramalingam OSRAD
	30.01.2014	A LOOK @ IT	Mr.K.Prasad NIIT
	19.07.2014	Microsoft- Current Trends in IT	Mr.G.M.Sukumar VADDTECH Training

2014 - 2015	23.07.2014	IEEE Transactions	Mr.Eswaran 4S Software Solutions
	02.08.2014	Cloud Computing	Mr.Gokul IBM
	13.08.2014	Recent Trends in IT	Mr.S.Chenniappan CTS
	19.09.2014	Current Trends in IT Industry	Mr.Mohammed Syed Ibrahim CTS
	20.09.2014 - 29.09.2014	PHP & MYSQL	Mr.Vinanth Technoturf Solutions
	09.01.2015	Website Creation	Mr.Suresh Kumar Global Vision
	21.01.2015	Pervasive Computing	Ms.Kavitha Xplore IT Corp
	09.02.2015	Animation 2D/3D	Mr.Sathish Yellow Tree Academy
	10.02.2015	Career Consulting	Mr.Kesavan Study International Academy
	21.02.2015	Current Trends in Web Designing	Mr Kannan - IN-Genius Coimbatore
	06.03.2015	Web Designing	Ms.Rizwana Xplore IT Corp
	09.02.2015 -	PHP & MYSQL	Mr.Vinanth-

	18.02.2015		Technoturf Solutions
	13.03.2015	National Level Symposium	Mr. Selva Vinayagam Anvayin Systems
2015 - 2016	28.09.2015	Discover N Achieve	Mr. Anantaraman Chandramouli
2015 - 2016	16.02.2016	Dynamic Webpage creation using WORDPRESS	Mr. Sairam Prabhu Xplore IT Corp
	20.02.2016	Achieving career	Mr. Sai Arjun
	27.02.2016	Praveeh'16 A National Level Technical Symposium	Mr. Viswanathan CEO, Ammarun Foundaries
	11.03.2016	Network Security & Ethical Hacking	Mr. Shankarraj Director Prompt infotech
<b>CIVIL ENGINEERING</b>			
2015 - 2016	15.12.2015 & 16.12.2015	FDP on Earthquake Resistant structures	Dr. K.S. Subramanian Dr. M.P. Muthuraj
<b>ELECTRICAL AND ELECTRONICS ENGINEERING</b>			
2011 - 2012	07.03.2012- 09.03.2012	International Conference on Computing Techniques, Embedded Systems and Drives	Dr. S.N. Sivanandam Dr. Radhakant padhi Dr. Paulraj Murugesha Pandiyan
2012 - 2013	23.02.2013	National Level Technical Symposium (PRAVAAH)	Mr. Vijayaragavan

2014 - 2015	01.03.2015	National Level Technical Symposium (Etrixz-15)	Ms Vanitha mohan, Vice-Chairman , Pricol Ltd. Coimbatore
2015 - 2016	29.12.2015- 30.12.2015	Faculty development Programme on Application of MATLAB and Publication using LateX in Research	Dr.S.Albert Alexander Professor, EEE, Kongu Engg College- Erode
	27.02.2016	National Level Technical Symposium (PRAVAAH-16)	Mr.Visvanathan CEO Ammarun Foundries, Coimbatore
<b>MECHANICAL ENGINEERING</b>			
2011-2012	15.02.2012	One day national level workshop on FEA	Mr.R.Padmanaban
2014-2015	07.03.2015	One day Seminar on GD & T & FMEA	Mr.N.Guru prasad
2015 -2016	30.03.2016 & 31.03.2016	Two days Workshop on NDT	Mr.G.Balachandran
	06.04.2016 & 07.04.2016	Two days Hands on training on Automotives	Mr.P.Xavier Jaganathan

**3.1.7. Provide details of prioritized research areas and the expertise available with the Institution.**

Each department is staffed with the faculty who are expert in different domains, handling theory classes and guiding project works in their area of expertise. Many of them are pursuing research in their expertise area. List of faculty and their area of expertise is provided in the following table:

**TABLE 3.6: FACULTY - AREA OF EXPERTISE**

<b>Department</b>	<b>Focus Area</b>	<b>Name of the Faculty</b>
ECE	Image Processing	Dr.V.Bindhu
		Mr. V.Premchandran
		Ms. V.K.Subhashini
	Networking	Ms. S.Sofia
		Mr. N.Arun Vignesh
		Mr. N.Kumareshan
		Mr. S.V.Ramanan
	VLSI	Mr. V.S.Nishok
		Ms. V.SuryaKumari
	Control Systems	Mr. E.Vimal
Embedded Systems	Mr. S.Mohana Sundaram	
CSE	Cloud Computing	Dr.D.Sumathi
		Mr. M.Prem Kumar
		Mr. P.Sivaprakash
	Wireless Networks	Dr. P P Joby
		Mr. D.Sridhar
	Network Security	Ms. T.Poongodi
	Data Mining	Mr. D.Sridhar

		Mr. C.Karthik
	Internet Security	Mr. M.Nizar Ahamed
MCT	Renewable Energy	Prof. S. Devaneyan
	Space Waves Communication	Mr. B. Rajnivas
	Robotics	Mr. Deepak
		Mr. Radhika
	Wireless Networks	Ms. V. Gopika
	Optimization Techniques	Mr. Dinesh
Composite Material	Mr. Ramu	
EEE	Power Electronics	Mr. V.Saravanakumar
		Ms. I.Raja rajeswari
		Mr. P. Yuvaraj
		Mr. J .Arokiapraveen raj
		Mr. K .Sampath Kumar
	Embedded Systems	Mr. C .Karuppanasamy
	Instrumentation and Control	Mr. J. Kandhasamy
	Applied Electronics	Ms. M .Bhuvaneswari
Power Systems	Mr. CL .Chinnadurai	
CIVIL	Structural Engineering	Prof. P.Sathiaseelan
		Mr. P.Jagadeeswaran
		Ms. C.Poongodi
		Mr. B.Sakthinavaneethan
		Mr. T.Balamurugesan
		Mr. G.Udhaya kumar

		Ms. M.Shanmugapriya
	Infrastructure Engineering	Mr. M.Mohamed Ashik
	Integrated Water Resource Management	Ms. D.Gomathi
	Construction Management	Ms. M.Poonkodi
	Environmental Engineering	Mr. K.M.Manoj
		Mr. S.Selva kumar
MECH	Production Engineering	Dr. R. Prakasam
	Engineering Design	Ms. D.Rajeswari
		Mr. Deepak
		Mr. V.Varatharasan
	Product Design and Development	Mr. R.V.Rangarajan
	Thermal Engineering	Mr.M.Anbarasu
		Mr J.G.Vignesh
	Manufacturing Engineering	Mr. D.Praveen kumar
		Mr. C.Balamurugan
	CAD	Mr. N.Gnanaprakash
Mr. R.Jeevanantham		
Mr. A.Sathishkumar		
Automobile Engineering	Mr. S.Jeyakumar	

### 3.1.8. Enumerate the efforts of the Institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

Our Institution encourages both faculty members and students to invite the expert speakers from both academia and industries for conducting various technical programmes and also to get good exposure in core and emerging areas of engineering.

Professional bodies functioning in each department concentrate in organizing guest lectures and workshops throughout the year benefitting students and the faculty in updating their knowledge. Besides, the Career Guidance Cell regularly invites renowned resource persons to address the students relating to career and research opportunities available in India and abroad.

#### EMINENT PERSONS VISITED









**3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?**

The management offers sabbatical leave for the deserving candidates and staff members are availing this facility. However the faculty members pursuing research are also availing substantial on-duty facility.

**3.1.10 Provide details of the initiatives taken up by the Institution in creating awareness/ advocating / transfer of relative findings of research of the Institution and elsewhere to students and community (lab to land)**

Every academic year, all the departments conduct various national level seminars and conferences where eminent researchers in specific areas of research are invited for sharing their ideas and experiences. The department also conducts hands on training, workshops and technical symposia to demonstrate the innovative ideas and talents of students.

Our students regularly undergo in plant trainings, summer and winter internships. Some of our students do projects for several noteworthy industries and government agencies. Our students are also involved in the developmental activities which benefit the nearby community around the Institution. Activities are underway to establish a Technology Business Incubation center to convert innovative project ideas into marketable products.

The following are the list of industry projects done by students:

**TABLE 3.7: LIST OF INDUSTRY PROJECTS**

S.No	Year	Name of The Project	Industry
<b>ELECTRONICS AND COMMUNICATION ENGINEERING</b>			
1	2015	Monitoring dynamic parameters in vehicle horn and data logging system	Roots Industries, Coimbatore
2	2016	Ultrasonic Sensor Based Water Utility Management System in Industries	Sree Meenachi Yarn Processors, Bhavani, Erode
<b>MECHANICAL ENGINEERING</b>			
1	2009-13	Quality analysis and process improvement of casting process in foundry	Sakthi Auto Components Ltd., Perundurai.
2	2009-13	Automation on gee dee weiler capstan lathe machine using pneumatic system	Ganesh Engineering Works, Coimbatore
3	2010-14	Optimisation of Precured rubber	Appolo Tyres Ltd, Chennai
4	2011-15	Design and Development of telescopic chute for bagasse stacker	Tamilnadu paper Ltd, Karur
5	2011-15	Boiler tube failiure analysis	Tuticorin thermal power plant
6	2011-15	Removal of defects in morotta pug	Chitanya Tech, Coimbatore
7	2011-15	Automatic strainer cleaning in turbine lub oil system	Tuticorin Thermal Power Plant
8	2011-15	Performance analysis of rotary air preheater	Mettur Thermal Power Station

9	2011-15	Design and fabrication of rotary table deburring machine	Godwil Engg., Coimbatore
10	2011-15	Replacements of metallic hammers with non-metallic hammers in depither	Tamilnadu Paper Ltd,Karur
11	2012-16	Hydraulic broke handler for finishing house pulper	Tamilnadu Paper Ltd,Karur
12	2012-16	Design and analysis of dual braking system in heavy duty automobiles	3d makers CADD Academy, Coimbatore
<b>ELECTRICAL &amp; ELECTRONICS ENGINEERING</b>			
1	2014	PLC Control Of Welding Electrode Extruder Press	Deepak Electronics Control Device
2	2013	GSM Based Energy Meter	KeltronElectro Ceramics Limited
3	2014	Automatic Water And Water Bottle Vending Machine	Kelby Pure Water Tech Pvt
4	2015	Automated Drilling Machine Using PLC Enabling Axis Control	Tech Park Industries
5	2014	Analysis Of Fault In Turbine And Fault Intimation Through GPRS Technology	Mettur Thermal Power Station
6	2016	Digital Relay Protection For 250mva Generator Transformer In Thermal Power Station	Mettur Thermal Power Station

## **3.2 RESOURCE MOBILIZATION FOR RESEARCH**

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

The College has a budget head for research activity and allocates funds for the purchase of necessary equipment, subscription of research journals, registration charges for participation in conferences and Seminars. The College encourages research activities among the faculty members as well as students.

The Management also provides grants to organize conferences and seminars by various departments. Faculty members also meet the expenditure through financial assistance from external funding agencies and from the consultancy charges earned. Our students regularly participate in the project contest organized outside the College and excel to great heights. They are recognized and appreciated with cash awards by the College.

### **3.2.2 Is there a provision in the Institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?**

Seed money is not usually provided to the faculty for research. The Institution has a proposal to provide seed money to the faculty for research in its forthcoming budget. The institute has exclusive R&D Account to support research related activities. But the Institution motivates the faculty in terms of providing the infrastructure and reference materials.

### 3.2.3 What are the financial provisions made available to support “Student Research Projects” by students.

- ✓ Students are provided with well equipped laboratories for carrying out research projects.
- ✓ The College has the policy that if a student wins a prize for his project at the project exhibition organized by the other Institutions, a cash award equating the prize won is awarded to the students by the College as a token of encouragement and appreciation.
- ✓ The students are encouraged to send project proposals to various funding agencies to avail financial grants.
- ✓ Projects done by the students related with campus activities are given sponsorships by the management so as to encourage them.



### 3.2.4 How does the various departments / units / staff of the institute interact in undertaking inter-disciplinary research?

The R & D Committee meets periodically to guide and monitor in the case of interdisciplinary research projects. Faculty members are identified to carry out the given interdisciplinary research project based on their areas of specialization

and their prior experience in carrying out similar projects. In our College, inter-disciplinary research is encouraged. The students can approach the faculty from any department to get the ideas for their project work. Students are also free to share their knowledge with other department students. The enrolment for value added courses conducted by the departments is not limited. All the interested students from any department fulfilling the sufficient basic knowledge can attend the programme.

The faculty seminar presented in one department can be attended by the interested faculty members from any department.

### **3.2.5 How does the Institution ensure optimal use of various equipment and research facilities of the Institution by its staff and students?**

The departments and R&D cell works in coordination for the judicious use of various equipment and research facilities of the Institution by researchers.

R&D cell also helps the researchers to locate equipment and facilities available for their research in other renowned Institutions.

The research and development centre maintains details of specifications and availability of the tools which are used for research. The various centers have tools like LabVIEW, AutoCAD, Pro-E/Creo, MATLAB etc.

All the laboratories are kept open until 7.00 P.M. for the benefits of students and faculty members. Wi Fi facility with 30 Mbps is provided in the campus for the benefits of the staff and students.

Our library is kept open daily until 6.30 P.M. If necessary it functions even on holidays for better utilization by the staff and students.

**3.2.6 Has the Institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If yes, give details.**

Yes, the Institution has received financial assistance for conducting various programmes for enriching research knowledge among the faculty members.

The details of the grants received from various organizations are given below.

**TABLE 3.8 : FUNDED PROGRAMMES**

<b>Academic Year</b>	<b>Funding Agency</b>	<b>Name Of The Event</b>	<b>Co Ordinator(S)</b>	<b>Grant Received In Rupees</b>
2014-2015	MNRE	National level technical symposium on Renewable Energy	Prof. Devaneyan. S R&D Head	50,000
2015-2016	MNRE	National level technical seminar on Decentralized Solar Power System for rural and urban areas	Prof. Devaneyan. S R&D Head	57,500
<b>Total Grants Received</b>				1,075,00/-

**3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.**

The management of Institution encourages the entire eligible faculty to apply for grant of funds to various funding agencies for taking up major and minor research projects by providing every kind of support required. We have also applied for a number of research projects the results of which are awaited.

### **3.3 RESEARCH FACILITIES**

#### **3.3.1 What are the research facilities available to the students and research scholars within the campus?**

- ✓ The library is enriched with 16,764 volumes of books at a total cost of 57.46 lakhs.
- ✓ The library has subscribed to 106 printed journals for catering to the needs of various engineering disciplines.
- ✓ The Digital library has subscribed to the e-journals of DELNET.
- ✓ Internet facility of 14 Mbps speed is available for the students and faculty which enable them to pursue their academic as well as their research work.
- ✓ The laboratories in all the departments are well equipped with latest hardware and software.
- ✓ National Programme on Technology Enhanced Learning [NPTEL] course materials are available for 11 disciplines with 333 videos for the benefit of students and faculty.
- ✓ An R&D lab with various research facilities is catering to the research related needs of various disciplines.
- ✓ The staff members are encouraged to become members of professional bodies and they are motivated to attend seminars, conferences and workshop on their subject of interest.
- ✓ In house FDP's are arranged on need-basis.

**3.3.2 What are the Institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?**

- ✓ Collaborations with reputed industries, Institutions and memberships in professional bodies are utilized to the maximum to enhance the research infrastructure.
- ✓ Up gradations of laboratory facilities, wherever needed, are identified and attended immediately by the management. Faculty members are also encouraged to submit proposals to funding agencies like AICTE, UGC etc to seek funding to establish / enhance research facilities.
- ✓ Procures latest hardware, software and information resources for the purpose of research activities by collecting the needs identified by the individual departments.
- ✓ Subscribes to reputed national and international journals based on the requirement of the faculty and the students.
- ✓ The Institution has established a Research and Development lab, catering to the research needs of all departments.
- ✓ Establishment of industry powered labs are given higher priority.

**3.3.3 Has the Institution received any special grants or finances from industry or other beneficiary agency for developing research facilities? If “yes”, what are the instruments/facilities created during the last four years.**

**Renewable Energy Application for Rural and Urban areas with MNRE:**

Ministry of New and Renewable Energy has approved funding for National Level Symposium on Renewable Energy Application for Rural and Urban areas for Rs.50,000. This may help researchers and students to identify the

design difficulties and find suitable solutions to improve the design and performance of the system.

**Decentralized Solar Power Systems for Rural and Urban areas with MNRE:**

Ministry of New and Renewable Energy has approved funding for National Seminar on Decentralized Solar Power Systems for Rural and Urban areas for Rs.57,500. This may help researchers and students to be aware of solar power system.

**3.3.4 What are the research facilities made available to the students and research scholars outside the campus/other research laboratories?**

- ✓ As a result of the MoU's signed with various organizations, Institutions and industry, the augmentation of research facilities have been successfully done. A fully equipped R & D lab catering to the needs of students and faculty of multiple disciplines.
- ✓ All the faculty members are allowed to avail on duty facility for attending workshops, seminar and conferences.
- ✓ Students are encouraged to do their project work at research organizations and industries.
- ✓ Research scholars whose supervisors are in other Institutions are allowed to avail the research facilities available in that Institution.
- ✓ The faculty members pursuing Ph.D. are allowed to avail extra on duty for doing the research work in other Institutions, industries and organizations.

**3.3.5 Provide details on the library/information resource center or any other facilities available specifically for the researchers?**

- ✓ The library is enriched with 16,764 volumes of books at a total cost of Rs. 57.46 lakhs and with Internet facilities.
- ✓ The library has subscribed to 106 printed journals for catering to the needs of various engineering disciplines.
- ✓ The library is enriched with e-journals, CD-ROM collection, and reprography facilities.

**3.3.6 What are the collaborative research facilities developed/created by the research institutes in the College. For ex. Laboratories, library, instruments, computers, new technology etc.**

There are no collaborative research facilities developed/created so far in the College. Departments are working towards it.

**3.4 RESEARCH PUBLICATIONS AND AWARDS**

**3.4.1 Highlight the major research achievements of the staff and students in terms of Patents obtained and filed (process and product)**

Nine Patents has been filed.

**3.4.2 Does the Institute publish or partner in publication of research journal(s)? If “yes”, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?**

No

### 3.4.3 Give details of publications by the faculty:

**TABLE 3.9: PUBLICATIONS BY FACULTY**

S.No	Name of the Department	Publication in International Journals	Publication in International / National Conferences
1	Civil Engineering	19	-
2	Computer Science & Engineering	29	17
3	Electronics & Communication Engineering	20	15
4	Electrical & Electronics Engineering	10	5
5	Mechanical Engineering	23	-
6	Mechatronics Engineering	16	-
7	Science & Humanities	17	-
<b>Total</b>		134	37

### 3.4.4 Provide details (if any) of

**Research awards received by the faculty** : 7 Research Awards have been received by Principal Dr.R.Prakasam

**Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally** : Outstanding Mechanical Engineer Award from Institution of Engineers (India) has been given to Principal Dr.R.Prakasam

**Incentives given to faculty for receiving state, national and international recognitions for research contributions.** : Management encourages by giving cash awards and certificates for research contributions

### 3.5 CONSULTANCY

#### 3.5.1 Give details of the systems and strategies for establishing institute-industry interface.

PPG IT Placement Cell makes all efforts to connect the industry with the institute by organizing visits, guest lectures, inviting the industry personnel as chief guests, arranging faculty visits to the industry, and signing of MoUs with industries.

**TABLE 3.10: MOUs' IN DEPARTMENTS**

S.No	Department	Name of Industry
1.	CIVIL	MAXXCADD Pvt Ltd
2.	CSE	XPLORE IT Corporation
3.	ECE	EFY Tech Centre
4.	EEE	Sunrise Automation
5.	IT	XPLORE IT Corporation
6.	Mechanical	MAXXCADD Pvt Ltd
7.	MCT	AATEK RoboPvt Ltd

- ✓ Every Department has separate Co-ordinator who interacts with industries to ascertain the needs and if these needs are felt missing in the curricula, the gap is filled by hosting special lectures/ seminars/ workshops.
- ✓ Centralized placement cell of the Institution also interacts with industries to know their requirement and the placement officer of

our Institution acts as a liaison between the corporate and the College

- ✓ Departments have good alumni base who are currently working with many reputed companies. This group certainly helps the Institution in campus placements.
- ✓ Industry tie-up helps in arranging in-plant training, Internship and project work for the students in the industry atmosphere, moreover our faculty share their knowledge through the training the employee of the industry.
- ✓ Alumni of our College interact with our students to share their experience in the industry and the skills required for the industry.

### **3.5.2 What is the stated policy of the Institution to promote consultancy?**

#### **How is the available expertise advocated and publicized?**

- ✓ The Institution authority always interacts with the local people/business establishments to advocate the available expertise for consultancy services.
- ✓ The College is also having a list of facilities (Software, Equipments etc.,) available for research and consultancy.
- ✓ Through the placement coordinator, the facilities available in the department are explained to the experts from various industries. Periodically the updated literature about the Institution has been sent to prospective companies highlighting the latest achievements including the facilities available in the department.
- ✓ Major areas of expertise are advertised through department homepage in the main College website and also through technical events/programmes, customized e-mails and public awareness talks.
- ✓ MoU's with various industries facilitate the visit of faculty to the industry. The interaction with the industry will lead to identify the

potential area of consultancy. This will lead to promotion of research and consultancy with the industry.

**3.5.3 How does the Institution encourage the staff to utilize their expertise and available facilities for consultancy services?**

- ✓ Faculty members are encouraged to share their knowledge with the industry by offering training classes.
- ✓ Updating knowledge takes place by encouraging students to undergo industrial projects under the guidance of faculty.
- ✓ Expertise of faculty is used in developing value added courses for the students.
- ✓ Skills of the faculty from various departments help in taking Multi-Disciplinary projects.
- ✓ Faculties have the liberty to use research facilities available in the Institution and also encouraged by offering leave facilities.

**3.5.4 List the broad areas and major consultancy services provided by the Institution and the revenue generated during the last four years.**

Some of the consultancy services provided by the Institution are listed below

**TABLE 3.11: CONSULTANCY SERVICES**

S.No	Type of Consultancy	Department	Income Generated (Rs)	Year
1.	Eco Dynamic Equipment's Pvt Ltd	Mechatronics Engineering	On Goodwill Basis	2014-15
2.	Athiparasakthi Alloy Steels	Mechatronics Engineering	On Goodwill Basis	2014-15

All the departments do offer consultancy services on goodwill basis. The following are the major areas in which the departments substantially contributed for the consultancy/ knowledge sharing.

**TABLE 3.12: AREAS OF CONSULTANCY SERVICES**

<b>DEPARTMENT</b>	<b>MAJOR AREA</b>
CSE	Webpage Designing & Application Development
ECE	Embedded Systems & ARM Controller
EEE	PLC based Automation & Matrix Laboratory
Mechanical	Auto CAD

In addition, some of the other noteworthy industry projects done by our students are:

**TABLE 3.13: INDUSTRY PROJECTS BY STUDENTS**

<b>S.No</b>	<b>Name of Project</b>	<b>Name of Industry/ Organization</b>	<b>Department</b>	<b>Year</b>
1.	Intelligent Color Sorting using Arduino Due	Classic Industries	ECE	2014-2015
2.	Location based early disaster warning and evacuation system using mobile Phones	JP InfoTech	CSE	2014-2015
3.	Supply Management System	Spawn Media Works	CSE	2014-2015
4.	Exploring Proper Resource for Retail Management in Cloud Management	Sans Pareil IT Services	CSE	2014-2015

5.	Impementation of wavelet packet transform using FPGA for analyzing stator faults in induction machine.	TNSCST-Chennai	EEE	2011-2012
6.	Analysis of fault in Turbine and Fault Intimation through GPRS Technology.	Mettur Thermal power station	EEE	2013-2014
7.	Automatic Water and Water bottle Wending Machines	Kelby	EEE	2013-2014
8.	Automated Drilling Machine Using PLC Enabling Axis Control	Tech Park Industries	EEE	2014-2015
9.	GSM Based Energy Meter	Keltron	EEE	2012-2013
10.	PLC Control of Welding Electrode Extruder Press	Deepak Electronic Control Device	EEE	2013-2014
11	Digital relay protection for 250MVA Generator transformer in Thermal power station	Mettur Thermal power station	EEE	2015-2016

### **3.5.5 What is the policy of the Institution in sharing the income generated through consultancy (staff involved: Institution) and its use for Institutional development?**

The policy of the Institution as laid down by the Management is to promote consultancy and utilization of staff expertise. The amount generated through consultancy is to be shared on the goodwill basis.

## **3.6 EXTENSION ACTIVITIES AND INSTITUTIONAL SOCIAL RESPONSIBILITY**

### **3.6.1 How does the Institution promote Institution-neighborhood community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?**

The College is committed to provide quality education to the students by promoting moral values, scientific temper and employing state of the art technologies. It aims to achieve excellence in creating students with high degree of academic, professional and cultural development to meet the national and global demands.

The major strength of our College is its ability to ensure holistic development of the students and make them responsible citizens by teaching them the moral values. The institute is aware of its role in campus-community connection, well being of its neighborhood and has initiated a number of community development activities. The students and staff volunteers functioning under various clubs are actively involved in assessing the real needs of the neighborhood community and organizing need based social programmes respectively.

Following is the list of outreach and extension programmes which are regularly pursued by the Institution:

- ✓ Cleaning campaigns in various nearby localities to realize the “Swachh Bharat” dream of our Prime Minister.
- ✓ Blood donation camps.
- ✓ Independence Day and Republic Day celebrations involving the public.
- ✓ Conducting social awareness rallies.
- ✓ Medical Checkups for the members of the neighboring public.
- ✓ Promoting the use of CFL/LED Lamps.
- ✓ Demonstration of Energy conservation.
- ✓ Tree plantation and environmental cleanliness.
- ✓ Basic Computer Literacy Programmes and IT skills for the Government high school and higher secondary Students.

### **3.6.2 What is the Institutional mechanism to track students involvement in various social movements / activities which promote citizenship roles?**

Various clubs have been initiated to organize social awareness and outreach programmes, which involve the participation of students and staff members. Clubs like NSS, MASS, GREEN Club are functioning effectively.

Through the coordinators of the various clubs, the students are motivated to actively involve in various social movement activities and the participation is monitored continuously. Class advisors and Tutors also keep a track of their wards participation in such extension activities. The Principal conducts bi-annual review meeting with the coordinator of the social activities.

Extra-curricular activities are conducted and value education is imparted so as to provide avenues to students to become aware of their environment, the social evils, citizen responsibility and individual contribution needed to make the society a better place to live. Due rewards and recognitions are given for outstanding contributions by the students.

### **3.6.3 How does the Institution solicit stakeholder perception on the overall performance and quality of the Institution?**

The Quality policy and objectives of the Institution are displayed in the Information Brochure given to the students at the time of admission. The College website provides adequate space to these goals. After the admission, the students are made aware of these goals and objectives.

The Institution values the opinions and needs of our students. Every class has a class representative from the boys and girls. He/she communicates the requirements and problems of his/her fellow classmates to the respective Tutor/Class Advisor/Head of Department/ The Principal.

Class committee meetings and Student Council meetings are conducted regularly with student representatives to know their grievances and suggestions.

Tutors / Class Advisors / Head of Department interact with parents / guardians regularly. They are informed about their wards' academic performance and attendance records through meetings, letters, phone calls, SMS and Emails. Direct interaction of the Parents/guardians with the Heads of the Departments is also encouraged. Opinions of the parents with respect to various aspects such as planning of industrial visits, sports, cultural programs etc., are valued. Parents are allowed to meet the staff, Tutor, Class Advisor, HOD and Principal on any day of the week at any time to make any suggestions or complaints.

The Institution has regular HoDs meetings / staff meetings to discuss about the policies, strategic plans strategic revisions needed and to develop an action plan for various activities. Most of the decisions are taken only on consensus during HODs meetings/staff meetings.

The Institution has constituted an Alumni Association nominating a Professor as In-Charge. The association organizes meetings and has regular formal and informal interactions wherein any alumnus is free to give their suggestions.

**3.6.4 How does the Institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.**

The College is continuously organizing a number of academic extension and social outreach activities by various clubs, with the help of many voluntary organizations and NGOs. The College is in regular contact with coimbatore corporation and highways for infrastructure development and also for taking traffic census in highways for the civil engineering students. Some of the civil engineering students are assigned special jobs like taking levels for realignment of national highways of Coimbatore city. Moreover through the exchanges with various organizations and NGOs the need of the neighborhood community is addressed. Based on this list of activities are planned and carried out throughout the year.

**3.6.5 How does the Institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?**

The College has one unit each of NSS, RRC, MASS GREEN Club, etc. The members of these clubs organize number of community service activities in rural areas in and around the Institution.

The staff and student volunteers are encouraged to engage themselves in “Swachh Bharat” project in various adopted locations around the College.

Medical Camps are regularly conducted in association with PPG Nursing College (units of PPG Group of Institutions) at nearby Panchayats on various dates. Blood donation camps are organized every year by NSS. To rejuvenate our students, Marathon programmes, Yoga and Meditations programmes are arranged to imbibe social and ethical values in their young minds. Our students are

encouraged to develop solutions and do projects that are directly beneficial to the community.

**3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower students from under-privileged and vulnerable sections of society**

During Social Outreach programmes organized by our College, statistics are collected about the requirements of the rural people belonging to under privileged and vulnerable sections of the society and accordingly guidance and support are provided to them for approaching the appropriate authorities for getting their lawful requirements fulfilled.

Social awareness Rallies emphasizing Environmental awareness, Road Safety, and Cleanliness starting from Bharathi Nagar and passing through RJ School road covering a distance of 5 to 6 kilo meter were conducted.

Medical Camps are regularly conducted in association with PPG Nursing College and ASHWIN Hospital (units of PPG Group of Institutions) at nearby Panchayat on various dates. Social Outreach activities involving cleaning the roads, streets, planting trees are regularly conducted.

The students of the College regularly visits orphanages and donate necessary things.

The following is the list of activities and social outreach programs organized so far:

**TABLE 3.14 : ACADEMIC EXTENSION ACTIVITIES**

<b>Dept</b>	<b>Training /Awareness Programs</b>	<b>Date / Agency</b>	<b>Area/Region Covered</b>	<b>In Collaboration With</b>	<b>Beneficiary</b>
<b>CIVIL</b>	Seminar in the topic of “DESALINATION”	2014	Nearby College students	-	240
	FDP on Earthquake resistant structures	2015	Near by College faculty memebers & Research Scholars	-	24
<b>CSE/IT</b>	Seminar on “Career Awareness & .Net Technology”	31.01.2013	Nearby Polytechnic Students	-	175
	Seminar on “IEEE Transactions”	23.07.2014	Students	-	115
	National Level Symposium	13.03.2015	Nearby College students	-	105
	Guest Lecturer on “Achieving Career goal”	20.02.2016	Nearby Polytechnic Students	-	78
<b>ECE</b>	Workshop on Robotics & Automation	24.08.12 & 25.08.12	Nearby College students	-	52
	Workshop on Simulating Tools in Electronics	13.02.2015	Nearby Polytechnic Students	-	90

	Engineering				
	Seminar on Entrepreneurship	01.08.2015	Nearby College students	-	97
<b>EEE</b>	National Level Technical Symposium (PRAVAAH-13)	23.02.2013	Nearby College students	-	120
	National Level Technical Symposium (Etrixz-15)	01.03.2015	Nearby College students	-	140
	FDP on “Applications of MATLAB using LaTex in Research”	29.12.2015 & 30.12.2015	Nearby College faculty members & Research Scholars	-	30
<b>MECH</b>	Workshop on “Recent Trends In NDT”	08.02.2013	Nearby College students	-	74
	Opportunities In Renewable Energy	10.01.2014	Nearby College students, faculty members & Industrial people	-	62
	Product Design & Planning	04.11.2014	Nearby College students & faculty members	-	139
	GD & T & FMEA	07.03.2015	Nearby College students & faculties	-	139
<b>MCT</b>	Workshop on Instructional Methodology	16.11.2015 - 17.11.2015	Nearby College students & faculties	-	90

Expo on “A solution to global warming through Renewable energy”	17.11.2015	Nearby School & College students	-	30
Workshop on Robotics in Industrial Automation	20.11.2015	Nearby College students	-	20
FDP on “Applications of MATLAB using LaTeX in Research”	29.12.2015-30.12.2015	Nearby College faculty members & Research Scholars	-	30

**TABLE 3.15: SOCIAL /OUT-REACH PROGRAMMES**

<b>Name of the Service Cell</b>	<b>Date</b>	<b>Place of Work</b>	<b>Social Out Reach Programmes</b>	<b>Total No. of Students Involved</b>	<b>Beneficiaries</b>
NSS	12.01.2014	Bharathi Nagar to College campus	PPG Youth Marathon	50	Nearby Community
	25.01.2015	Bharathi Nagar to College campus	PPG Marathon Run for SWACHH BHARAT	60	Nearby Community
	21.06.2015	College Campus	International Yoga Day	-	50 Staff Members

	20.07.2015	KNMH	Blood donation	4	1
	21.07.2015	KNMH	Blood Donation	2	1
	15.10.2015	College Campus	Dr. APJ Abdul Kalam Birthday Celebration at College	500	500 students
	31.01.2015	Bharathi Nagar to College campus	PPG Pasumai Marathon	50	Nearby Community
	01.03.2016	Rathinagiri Road	Election Awareness -Rally	225	Kapikadai, Rathnagiri area people
	20.03.2016	College Campus	Candela Programme for orphanage	75	250 orphanage childrens
MASS	08.10.2015	College Campus	Inter-School Techno-Fest	200	School students
GREEN CLUB	01.10.2014	College Campus	Planting trees	250	Planted 1000 plants inside College campus

National Service Scheme in Villages



Sports Meet



Eco Club



School Teachers Training Program



School Students Programs



Tamil Mandram



Eco & Literary Club



YRC & NSS Fire Safety Awareness



Stress Relieving Program for Teachers



PPG Youth Marathon 2014



Blood Donation Camp



Pasumai Marathon 2016



**3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the Institution, comment on how they complement student's academic learning experience and specify the values and skills inculcated.**

Our students develop a sense of social responsibility and learn ethical and moral values through various extension activities and social outreach activities which complement their academic learning. They develop various skills like training, counseling, interpersonal skills, leadership, entrepreneurship and

motivating ability to work in teams through the various social activities. This brings about a transformation in the minds of young students and the social values regarding brotherhood, communal harmony and women empowerment are imbibed. They also get hands on experience using various tools and techniques during training programmes.

**3.6.8 How does the Institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the Institution that encourage community participation in its activities?**

Number of Programmes carried out in rural areas/villages were planned and scheduled with the village Chairman (Panchayat president) and executed in collaboration with the village community. The social outreach activities such as cleaning the roads, streets, planting trees as an objective of Institutional Social Responsibility and thus ensure the development of the community. The participation by the community was enormous and thus contributed to community development.

**3.6.9 Give details on the constructive relationships forged (if any) with other Institutions of the locality for working on various outreach and extension activities.**

The College has constructive relationships with the following Institutions and organizations to effectively execute its social outreach programmes / activities:

Vilankurichi panchayat, PPG College of Nursing, ASHWIN Hospital.

All nearby panchayat presidents extend their help by facilitating their ward people, unemployed youth as volunteers for conducting awareness/training

programmes and arrangement of camps / rallies in particular location and for working on various outreach and extension activities.

Our College provides free insurance policy upto Rs. 50, 000/- for each students in our campus. Also provides free treatment for all the students in case of disabilities and emergency. ASHWIN Hospital provides cancer treatment at low cost for neighboring community.

The various clubs / NGOs have sponsored various extension / social outreach programs. The NSS Unit provided appreciation certificates for the blood donors during the campaign.

**3.6.10 Give details of awards received by the Institution for extension activities and contributions to the social/community development during the last four years.**

Our institute has been appreciated by the benefited neighborhood community:

- ✓ Indian Red Cross Society appreciated our College for active participation in their club.
- ✓ Siruthuli appreciated our Green Club team for planting trees.
- ✓ Coimbatore Athletic Association appreciated our PPGIT for Marathon event.
- ✓ Raman Chettiar School, Sree Dharmasastha School and many schools & Colleges appreciated PPGIT for conducting Marathon.

### **3.7 COLLABORATION**

**3.7.1 How does the Institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives – collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.**

- ✓ The Institution has executed a number of MoUs and tie-ups with reputed Institutions and renowned organizations for resource and expertise sharing.
- ✓ The Placement cell, Career Guidance Cell, and R & D cell help the Institution in finding avenues for collaborating with industry and other agencies.
- ✓ MNRE sponsored national level technical seminar on Decentralized Solar Power System for rural and urban areas had been conducted to enhance the knowledge of the students.

#### **The Benefits:**

- ✓ The College has conducted International Conference on Computing Techniques, Embedded Systems & Drives ICCED'12.
- ✓ Besides, the College always strives its best to get hold of collaborations with research laboratories and Institutions of national importance with an aim to empower the faculty, inculcate the research mindset in faculty and students and thereby developing the best possible learning environment to the students.

**3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with Institutions of national importance/other universities/ industries/ Corporate (Corporate entities) etc. and how they have contributed to the development of the Institution.**

**TABLE 3.16: LIST OF MOU's**

<b>MOU Signed Year</b>	<b>MOU With Industry / Institution</b>	<b>Details Of Collaboration</b>
2011	HOPE FACTORY, Civil Aerodrome Post, Coimbatore	Training, Mentoring, Coaching, Shaping & Personal encouragement for the students
2011	CAAD Centre, Coimbatore	To take up project works in core engineering field and to provide training for ECE, EEE, Civil and Mechanical students to organize workshop, seminars, and conferences also to provide value added software training.
2012	Fraghren Academy, Tirunelveli	Soft Skills training
2012	Everon	Training in Embedded Systems, CCNA and Java
2012	Li2 Innovations, Bangalore	Workshops and Seminars in “Robotics”
2013	Axis Global Automation	Training in Programmable Logic Controller and SCADA
2013	Sandroid Automation Personified, Coimbatore	Provides training programs, Research activities, career opportunities, technical support regarding engineering projects for students in the

		field of embedded systems and PIC Microcontroller.
2014	TUV – Rheinland	Training in Wind Mills and site visits
2014	Xplore IT Corp., Coimbatore	Course on “PHP and My SQL”
2014	ELF Global Solutions Coimbatore	STADD Pro, Revite Architecture
2015	Xplore IT Corp., Coimbatore	To bring out industry institute interaction and provide software training in the field of VLSI.
2015	EFY Tech centre, Coimbatore	Provide value added course in Arduino and training to take up projects, Research activities.
2015	Aztec Embedded Solutions, Coimbatore	Provide a training program which will support the College in organizing training programs related to PIC.
2015	Sunrise Automation and solutions	Provide a training program which will support the College in organizing training programs related to PLC and SCADA .
2015	Tecknoturf	Course on “PHP and My SQL”
2015	Genn Automation	Training in Programmable Logic Controller and SCADA
2015	Max Cad Coimbatore	Training in Auto CADD
2015	Maxcadd	Solid works

2015	ELF Global solutions	CREO
2015	TVS Group Explore IT corp	CATIA
2016	Maxcadd	ANSYS,SOLID WORKS
2016	EFY Tech centre, Coimbatore	Hands on training with Aurdino Micro controller
2016	Sunrise Automation and solutions	Provide a training program which will support the College in organizing training programs related to PLC and SCADA .
2016	AA TEK Robo Pvt Ltd	Provide a training program which will support the College in organizing training programs related to Robotics.
2016	Xplore IT Corp., CBE.	Course on “Android”
2016	Max CAAD Coimbatore	STADD Pro, Revite Architecture, 3D Studio Max.

**3.7.3 Give details (if any) on the industry-Institution-community interactions that have contributed to the establishment / creation / upgradation of academic facilities, student and staff support, infrastructure facilities of the Institution viz. laboratories / library/ new technology /placement services etc.**

- ✓ An online repository of 3 TB worth of NPTEL contents with over 600 video and web courses of more than 340 subjects is available for reference to faculty and students to enhance their learning experience and to strengthen their fundamental understanding of core engineering subjects. Our faculty members use these resources regularly as a part of their teaching process.

- ✓ Free training to students is organized by R&D Cell, to understand the various technologies installation and service process of using solar energy products which will have possibility and potential to create job prospects.

**3.7.4 High lighting the names of eminent scientists/participants, who contributed to the events, provide details of national and international conferences organized by the College during the last four years.**

**Some of the eminent resource persons who enlightened the participants**

- ✓ Mrs.Vanitha Mohan, Vice-Chairman, Pricol Limited.
- ✓ Dr.Thanushkodi, Director, Akshaya College of Engineering & Technology.
- ✓ Dr.Manjunath Kamath, School of industrial Engineering and management,USA
- ✓ Mr.R.Padmanaban, Amrita University
- ✓ Mr.N.Guru Prasad, ZF Wind Power Coimbatore Ltd.
- ✓ Dr.S.Senthil kumar, PSG College of Technology
- ✓ Mr.Sudhakar Deenadayalan, National water consultant
- ✓ Dr.K.S.Subramanian, Coimbatore Institute of Technology
- ✓ Dr. S. N. Sivanandam, Emeritus Prof, As Guest of Honor
- ✓ Dr. Paulraj Murugesu Pandiyan, Associate Professor,University Malaysia Perlis,Malaysia
- ✓ Dr.Prithiviraj, Principal, Pondichery College of Engineering, Pondichery
- ✓ Dr. Daniel Chandran, School of Technology, Australia
- ✓ Dr. Radhakrishnan, Vice Chancellor, Anna University of Technology, Coimbatore

- ✓ Dr. Karunakaran, Vice Chancellor, Anna University of Technology, Coimbatore
- ✓ Dr. James Pitchai, Vice Chancellor, Bharathiar University, Coimbatore
- ✓ Dr. B Ilango, Former Vice Chancellor, Bharathiar University, Coimbatore
- ✓ Dr. S S Mantha, Chairman, AICTE, New Delhi
- ✓ Dr. H Devaraj, Vice Chairman, UGC, New Delhi
- ✓ Thiru. Kumar Jayanth IAS , Secretary, DOTE, Chennai
- ✓ Thiru. N Ram, Chief Editor, The Hindu, Chennai
- ✓ Thiru. T S R Subramanian IAS, Ex. Cabinet Seceretary, Govt. of India, New Delhi
- ✓ Thiru. Nalli Kuppusamy Chetti, Philanthropist, Chennai
- ✓ Thiru. N Visweswaran, Chief Mentor, Hexaware Technologies, Hexawarsity
- ✓ Dr. Sylendara Babu IPS, ADGP, Coastal Security Group, Tamilnadu
- ✓ Thiru. Sivanandi IPS, SP-West Zone, Coimbatore
- ✓ Thiru. T Pitchandi IAS, Ex. Secretary to the chief Minister of Tamilnadu
- ✓ Dr B.K. Krishnaraj Vanavarayar, Chairman - Bharathiya Vidhya Bhavan
- ✓ Thiru. Sivakumar, Famous Tamil Cine Actor & Philanthropist, Chennai
- ✓ Thiru. N Subramanaian, Managing Director, Habasit Iakoka Pvt Ltd, Coimbatore
- ✓ Thiru. Visvanathan, Managing Director, Ammarun Foundaries, Coimbatore

- ✓ Thiru. K Purushothaman, Regional Director, Nasscom, Southern Region.
- ✓ Dr. P Kangasababathy, Director, Institute for Urban Studies, Coimbatore
- ✓ Thiru. D Nandha Kumar, President, Chamber of Commerce, Coimbatore
- ✓ Thiru T Rajkumar, Chairman, SIMA (South India Mills Association), Coimbatore
- ✓ Mr. M Palanivel, Deputy Director, MSME Development Institute, Coimbatore
- ✓ Thiru. D Devaraj, Managing Director, Dev Solar, Coimbatore
- ✓ Dr. Pa Murthy IPS, Superintendent of Police, Special Commando Training School, Madukkarai, Coimbatore
- ✓ Dr. Kavidasan, HR Manager, Roots Industries, Coimbatore
- ✓ Thiru. R S Munirathinam, Chairman, RMK Group of Institutions, Chennai
- ✓ Dr. K Vijay karthikeyan IAS, Commissioner, Coimbatore Corporation, Coimbatore
- ✓ Thiru. T K Ponnusamy IAS, Commissioner, Coimbatore Corporation, Coimbatore
- ✓ Thiru. Jayaprakash Gandhi, Career Consultant & Analyst, Salem
- ✓ Dr. T Kannadasan, VC Officiate, Anna University of Technology Coimbatore
- ✓ Dr. S Selladurai, Additional Registrar, Anna University, Chennai
- ✓ Dr. T Dhanapal, Senior Scientific Officer, TNSCST, Chennai
- ✓ Dr. Radhakant Padhi, Professor, Aerospace Engg. Dept, IISc, Bangalore

- ✓ Thiru. Vishnu Potty, Vice President, Cognizant Technology Solution, Chennai
- ✓ Mr. Timothy Miller, General Manager, TUV Rheinland, Germany
- ✓ Dr. B Balakumaran, Asst. Director, Physical Education & Sports, Chennai

**The names of eminent scientists are:**

- ✓ Dr.A.P.J Abdul Kalam, Former President of India
- ✓ Dr. Mylsamy Annadurai, Director, ISRO, Bangalore
- ✓ Dr. N M Ramaswamy, Scientist, (Nano Bio-Technology), Coimbatore

**3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated.**

**a) Curriculum Development/Enrichment**

The industries usually suggest the curricular enhancements and add-on-courses needed that would enable the students to be employable, Additionally national level Institutes like NITTTR, NPTEL, Talk to a Teacher and Spoken Tutorial projects from IIT Bombay facilitate us to enrich our curriculum.

**b) Internships/ On-the-job training**

The students belonging to various departments are usually sent on internship/ in-plant training to the industries in which the students receive on the job training which helps them to a great extent while appearing for interviews for placements. Usually, the companies which signed the MoU's with our Institution offer this facility. Our students have participated in internship trainings in various industries like:

- ✓ BSNL

- ✓ Hindustan Photo Films Manufacturing Company Limited
- ✓ Tamilnadu Electricity Board (TNEB)

**c) Summer Internship**

The students who are willing to undergo extra training programme in industries are permitted for a period of one month during the summer vacation.

**d) Faculty exchange and professional development**

Whenever any convention or conference or workshop is organized by the industries with which have entered into MOUs, the faculty of the concerned department is permitted to attend such events as a part of their professional development.

**e) Research**

**TABLE 3.17: FUNDED RESEARCH AND DEVELOPMENT PROJECTS**

<b>Academic Year</b>	<b>Funding Agency</b>	<b>Name of the Event</b>	<b>Coordinator(s)</b>	<b>Grant Received in Rupees</b>
2015-2016	MNRE	National level technical seminar on Decentralized Solar Power System for rural and urban areas	Mr.S.Devaneyan R&D Head	57,500
2014-2015	MNRE	National level technical symposium on Renewable Energy	Mr.S.Devaneyan R&D Head	50,000
2011-2012	TNSCST Chennai	Project	Ms. I.Rajarajeswari	6,000
2012-2013	RuTAG, IIT Madras	Project	Ms. I.Rajarajeswari	6,000
2012-2013	HABASIT, Coimbatore	Project	Mr.S.Devaneyan R&D Head	25,000
<b>Total</b>				1,44,500

## f) Consultancy

**Table of MOU**

S.No	Department	Name of Industry
1	CIVIL	MAXXCADD Pvt Ltd
2	CSE	XPLORE IT Corporation
3	ECE	EFY Tech Centre
4	EEE	Sunrise Automation
5	EEE	Scanner Electro Lab
6	IT	XPLORE IT Corporation
7	Mechanical	MAXXCADD Pvt Ltd
8	MCT	AATEK Robo Pvt Ltd
9	Mechanical	Ammarun Foundries

- ✓ Every Department has separate Co-ordinator who interacts with industries to ascertain the needs and if these needs are felt missing in the curricula, the gap is filled by hosting special lectures/ seminars/ workshops.
- ✓ Centralized placement cell of the Institution also interacts with industries to know their requirement and the placement officer of our Institution acts as a liaison between the corporate and the College.
- ✓ The Institution authority always interacts with the local people/ business establishments to advocate the available expertise for consultancy services.
- ✓ The College is also having a list of facilities (Softwares, Equipments etc.,) available for research and consultancy.
- ✓ Through the placement coordinator, the facilities available in the department are explained to the experts from various industries.

Periodically the updated literature about the Institution has been sent to prospective companies highlighting the latest achievements including the facilities available in the department. Major areas of expertise are advertised through department homepage in the main College website and also through technical events /programmes, customized e-mails and public awareness talks.

- ✓ MoU's with various industries facilitate the visit of faculty to the industry. The interaction with the industry will lead to identify the potential area of consultancy. This will lead to promotion of research and consultancy with the industry.

Some of the consultancy services provided by the Institution are listed below

**TABLE 3.18: CONSULTANCY**

<b>S.No</b>	<b>Type of Consultancy</b>	<b>Department</b>	<b>Income Generated (Rs)</b>	<b>Year</b>
1.	Eco Dynamic Equipment's Pvt. Ltd.	Mechatronics Engineering	On Goodwill Basis	2014-15
2.	Athiparasakthi Alloy Steels	Mechatronics Engineering	On Goodwill Basis	2014-15

All the departments do offer consultancy services on goodwill as well as on basis. The following are the major areas in which the departments substantially contributed for the consultancy/ knowledge sharing.

**g) Publications**

The ongoing research activities are in different areas of specialization and hence the papers are being published in reputed journals by the individual faculty and research scholars. Some of our faculty has joint publications with some

reputed researchers abroad in high impact factor journals such as Elsevier, IEEE and Springer Publications.

#### **h) Student Placements**

Collaboration with various industries helps in enhancing employability skills of our students. This has resulted in decent placement of our students in various industries.

#### **i) Introduction of new courses**

Based on the regular interaction and suggestion from the industrial experts, value added courses are developed according to their recommendations. Value added courses are conducted to students on need basis.

#### **j) Student exchange**

Though, student exchange programs are not in vogue at present, the students are sent to the industries for internships.

### **3.7.6 Detail on the systemic efforts of the Institution in planning, establishing and implementing the initiatives of the linkages/collaborations.**

- ✓ In order to promote liaison with industry, other organizations and Institutions of national importance, for the benefit of students and faculty, the following cells are actively functioning in the College:
- ✓ Training and Placement cell, Career Guidance cell, IIPC, R&D cell, Women Empowerment cell and PPG Community Service cell. In addition, various student clubs are planned to conduct various programs based on the student needs.
- ✓ Every department has an Industry Advisory board and conducts periodic meetings with industry experts to know the state-of-art demands of the industry and thus to fill the curricular gaps by arranging add-on courses and guest lectures.

- ✓ Through the MoUs signed with various industries and organizations, training programs and joint development projects are encouraged.
- ✓ Industry projects/ summer and winter internships by students are given high focus.
- ✓ Through the Industry powered laboratories set up in association with leading industries, students get opportunity to work on automation projects with specialized equipments.
- ✓ Through the incubation center, attempts are made to convert some of the interesting and original ideas of students into marketable products in the Cloud and Mobile Web space. Various companies are contacted to start incubation centres. In 2014, our College had started Incubation Centre in Windmill training in collaboration with TUV Rheinland, Germany. The College is in registration with Tamilnadu Skill Development Corporation (TNSDC), Chennai.
- ✓ The Institution constantly strives to set up Centers of Excellence in various focus areas of each discipline. Capacity building activities are currently under way.
- ✓ Learning resources in library and academic departments are continuously enriched through collaborations with various agencies.

## **CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**

### **4.1PHYSICAL FACILITIES**

#### **4.1. What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?**

##### **Policy**

The policy of the Institution is to create good infrastructural facilities for ensuring academic excellence. The campus provides positive and conducive environment for learning with its lush green and peaceful atmosphere. The management has taken care to provide the required facilities like well-lit and ventilated class rooms, spacious laboratories, furnished library and space for various administrative activities. The laboratories are well equipped with high quality equipments and computing facilities. The library is enriched with good number of books and journals with separate space for reference. Space for placement cell, exam cell, R&D cell, career guidance cell, common rooms and space for co-curricular and extra-curricular activities are provided.

For better teaching learning process, based on the regular curriculum and extra Learning, the infrastructural needs are proposed by the Heads of the Departments to the Principal. The Principal presents the requirements to the Governing Council and the management. Based on the recommendations, the management develops the necessary facilities.

#### **4.1.2 Detail the facilities available for curricular and co-curricular activities.**

##### **Class rooms:**

There are more than 45 class rooms, and they are:

- Spacious and properly lit and ventilated.
- Easily accessible with access to multiple stair case.
- Electrical points are made available for LCD, OHP etc.

- Notice Boards are provided in each class room.

**Laboratories:**

The College has been equipped with 43 laboratories for various departments

**TABLE 4.1: LABORATORY FACILITIES**

S. NO	DEPARTMENT	LABORATORY	AREA (SQ. FT)		
1	S & H	Physics Lab	195.09		
		Chemistry Lab	139.35		
		Language Lab	55.74		
2	MECH	Dynamics Lab	67.44		
		Mechatronics Lab	66.27		
		Metrology & Measurement Lab	66.51		
		Manufacturing Technology Lab I	260.12		
		Manufacturing Technology Lab II	67.44		
		Thermal Engineering Lab I	67.44		
		Thermal Engineering Lab II	67.44		
		CAD CAM Lab	83.61		
		Engineering Practices Lab	139.35		
		3	EEE	Electrical Circuits Lab	66.21
				Electrical Machines Lab	222.96
Power Electronics Lab	66.82				
Control & Instrumentation Lab	167.22				
Power System Simulation Lab	66.82				
Engineering Practice Laboratory	66.25				
Electrical Drives & Control Lab	66.49				
4	ECE	Electronics Circuits lab	148.64		
		Communication Systems Lab	83.61		
		Digital Electronics Lab	69.67		
		Digital Signal Processing Lab and	66.52		
		Networks Lab	66.52		
		Microprocessor & Microcontroller	69.67		
		Optical & Microwave Lab	83.61		
5	CSE	Computer Practicing Laboratory 1	111.48		
		Computer Practicing Laboratory 1	111.48		
		Computer Practicing Laboratory 1	111.48		
6	MCT	Sensors and Signal processing Lab	66.52		

		Robotics Lab	66.84
		PLC Lab	66.52
		Solar Research And System	66.51
7	CIVIL	Strength of Materials Lab	159.32
		Environmental Engineering Lab	120.03
		Hydraulic Engineering Lab	159.32
		Concrete and Highway Lab	158.86
		Soil Mechanics Lab	139.35
		CAD Lab	66.52
		Surveying Lab	66.84
8	PLACEMENT	Group Discussion Hall I	66.52
		Group Discussion Hall II	66.52
9	R & D	R & D Cell	66.45

**Technology assisted learning environment:**

Air conditioned Conference hall with a seating capacity of 260 and a seminar hall (non a/c hall) with a seating capacity of 300 are available to conduct meetings, Conferences and Workshops. The conference hall has LCD projectors, PA system and Wi-Fi connectivity. In addition, a hall (Orientation hall) with the seating capacity of 500 persons is also available in the second floor.

**Computer Facility:**

The Institution has 607 computer terminals to inculcate constructive aptitude and computing skills and to meet the curriculum and research needs.

**Internet facility:**

The institute has separate computer center with internet browsing facility with high speed broad band connection with 14 Mbps speed.



**TABLE 4.2: INFRASTRUCTURE FACILITIES FOR ACADEMIC ACTIVITIES**

<b>S. No</b>	<b>Details</b>	<b>Number</b>	<b>Available Area (Sq. M)</b>
1	Class rooms	46	3036
2	Labs	43	5050
3	Drawing hall	1	135
4	Conference hall	1	132
5	Seminar hall	6	804
6	Auditorium	1	506
7	Workshops	1	200
8	Internet center	1	150
9	Library	1	400

**Table 4.3 ADMINISTRATIVE AREA**

<b>S. NO</b>	<b>DETAILS</b>	<b>NUMBER</b>	<b>AVAILABLE AREA (SQ. M)</b>
1	Principal room	1	42
2	Conference room	1	33
3	Office room	10	551
4	HoD rooms	8	80
5	Faculty rooms	5	643
6	Maintenance	10	33
7	Physical Director Room	1	66
8	Security	1	16
9	House keeping	1	16
10	Examination	1	66
11	Placement cell	1	33
12	Reception	1	97
13	Training Department	1	134.94

**Table 4.4 AMENITIES AREA**

<b>S. No</b>	<b>Details</b>	<b>Number</b>	<b>Available Area (Sq. M)</b>
1	Toilets (Ladies & Gents)	8	761
2	Boys common room	1	100
3	Girls common room	1	100
4	Cafeteria	1	150
5	Stationary stores/Reprographics	1	33
6	Health center	1	33
7	Sports	1	8000
8	Boys Hostel	1	3643
9	Girls Hostel	1	4001

**Extra – curricular activities – sports, outdoor and indoor games, auditorium, NSS, YRC, cultural activities, public speaking, communication skills development, yoga, health and hygiene etc.**

The College has a very good playground facility for outdoor sports activities like Kabaddi, Cricket, Football, Volley ball, Throw ball, Ball Badminton, Hockey, Handball, Tennis and standard track and field. Institution has indoor plays area for games like carrom, Chess, Shuttle, Badminton, Table Tennis.

**TABLE 4.5: FACILITY FOR EXTRA-CURRICULAR ACTIVITIES**

S. No.	Extra-Curricular Facility	Activities
1	Outdoor Games	Football, Kabaddi, Cricket, Tenni-Koit, Hockey, Handball Throw ball, Ball Badminton, Tennis, Volleyball and Track and Field.
2	Indoor Games	Carrom, Shuttle, Badminton, Chess, Table Tennis.
3	NSS	A well-furnished office with computing facility.
4	Cultural Activities	The College has 2 well equipped multipurpose halls which are used for the major cultural events of the College.
5	Language Lab	Lab with 60 terminals equipped with the latest software. It is an automated language lab having the facility of voice recording, playback, one-on-one interaction etc. It is congenial for language learning and the enhancement of effective communication skills.
6	Other Facilities	To cater to the needs of the faculty and students a fleet of 12 buses, a canteen, cafeteria, ATM, and stationery shop with reprographic facilities are existing in the College.
7	Medical facility	The Trust runs its own Ashwin Hospital in the nearby premises. The medical needs of the students are taken care in this hospital. There is always an ambulance stationed at the College premises. The College provides fee concession for medical treatment.

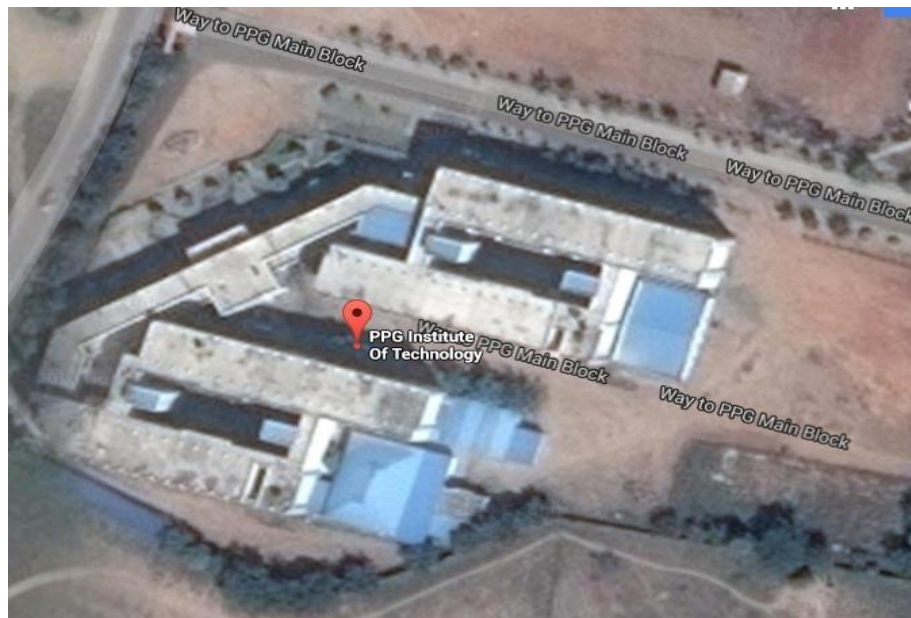
Medical Room



Yoga



**4.1.3 How does the Institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/ augmented and the amount spent during the last four years (Enclose the master plan of the Institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).**



Our Institution is continuously planning to improve the infrastructure for the academic growth as per AICTE and Anna University norms. In line with the changing needs and requirements, additional infrastructures are being added from time to time. In the last four years, many facilities / buildings have been constructed /renovated.

The facilities are utilized optimally by conducting various programs like,

- ✓ Value added courses.
- ✓ Guest Lecture on various topics.
- ✓ Sports, games and tournament.
- ✓ Industry projects and Research.
- ✓ Remedial Classes.

**TABLE 4.6: DETAILS OF AMOUNT SPENT ON BUILDING (in Lakhs)**

DESCRIPTION	2010-11	2011-12	2012-13	2013-14	2014-15
Building	517.39	272.16	297.96	82.99	64.78

**4.1.4 How does the Institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?**

The Institution is committed to make the differently able students comfortable. The Institution ensures that the infrastructure facilities meet the requirement of the students with physical disabilities by accommodating their classes on the ground floor throughout their period of study on admission. They are provided with comfortable furniture and attendant facility. Washrooms for physically challenged are provided inside the campus.

#### **4.1.5 Give details on the residential facility and various provisions available within them.**

**Hostel Facility:** The Institution has separate hostels, for both boys and girls students. The hostel rooms are spacious and ventilated. Water purifier has been provided for ensuring the hygiene in the hostel.

**Recreation facilities:** Outdoor recreation and indoor recreation with audio visuals aids (TV, Music player, games etc) are provided by the Institution.

**Medical room:** The College and the hostels are equipped to meet the medical attention required by the students. A room with two beds and all other necessary facilities required for medical assistance is available.

**Library:** The College hostel has a reading room for magazines, newspapers, periodicals, etc.

**Hygiene facilities:** Water doctors with hot and cold purified water with continuous supply of safe drinking water are provided in the College hostels.

**Security:** A separate team of security personals are headed by a chief security officer taking care of the security of the whole campus.

#### **4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?**

The Trust runs a Multi-disciplinary hospital located at 10 Km from the Institution. The hospital offers complete health solutions for various ailments. Students and faculty have availed medical aid at concessional rates. The students are covered by an accident insurance policy at the time of admission. Exclusive ambulance facility is also available to transport the student or staff to the hospital. An ambulance is available 24 x7 in the College campus for the students to go to the hospital in an emergency.

**4.1.7 Give details of the common facilities available on the campus – spaces for special units like IQAC, Grievance Redressal unit, Womens cell, counseling and career guidance, placement unit, Health center, canteen, recreational spaces for staffs and students, safe drinking water facility, auditorium.**

**TABLE 4.7: COMMON FACILITIES**

<b>S. NO.</b>	<b>NAME OF THE UNIT</b>	<b>PLACE OF LOCATION</b>	<b>STAFF IN CHARGE</b>
1	IQAC	C 003- Ground Floor	Prof.Sathiaseelan
2	Grievance Redressal unit	B 111- Ground floor B block	Dr. P P Joby
3	Womens cell	Second Floor	Dr. D Sumathi
4	Counseling Hall	B 109 - Ground floor B-Block	Mr. A Nizar Ahamed
5	Career guidance Cell	B 110 - Ground floor B-Block	Mr.C Nandakumar
6	Placement Cell	B 106 - Ground floor B-Block	Mr. N Arun Vignesh
7	Canteen	Near A block	Mr.Rajesh
8	Alumni Association	First Floor-A block	Dr.V Bindhu
9	Transport Facilities	Ground Floor-office building	Mr. Rajesh
10	Common Room	Main building and B- block	Mr. Sakthivel
11	Drinking Water	All floor	Mr. Chinnasamy

## 4.2 LIBRARY AS A LEARNING RESOURCE

### 4.2.1 Does the library have an Advisory Committee? Specify the composition of such a Committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

The library has an Advisory Committee which is termed as the Library Committee that comprises the following members

**TABLE 4.8: LIBRARY COMMITTEE**

S.NO	NAME OF THE MEMBER	DESIGNATION	POSITION
1	Dr. R.Prakasam	Principal	Chairman
2	Mrs.R.Latha	Chief Librarian	Member Secretary
3	Mr.V.Saravana Kumar	Associate Professor & Head	Member
4	Mr. P.Sathiaseelan	Professor & Head	Member
5	Mrs. D.Rajeswari	Assistant Professor & Head	Member
6	Dr.V.Bindhu	Professor & Head	Member
7	Dr.D.Sumathi	Professor & Head	Member
8	Mr. S.Devaneyan	Associate Professor & Head	Member
9	Mr.C.Magesh	Assistant Professor & Head	Member

#### **Purpose of Committee:**

The College Library Committee guides the Chief Librarian on matters of general policy, planning, programs, goals and objectives. Based on the size, a representative from each Department is the member of the same. Appointments for the member are for a period of two years and can be renewed later on. The committee meets once in every academic year.

### **Functions of Library Committee:**

- ✓ To guide the library policies for instruction, resources, services, and to facilitate.
- ✓ To provide proper documentation services and to update the library collection.
- ✓ To work towards modernization and the improvement of library and documentation Services.
- ✓ To formulate policies and procedures for efficient use of library resources.
- ✓ To create awareness among the staff and the students and to retain readership.
- ✓ To discuss budget proposals for the development of the library.

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

- ✓ Total area of the Central library : 400 Square Meters
- ✓ Total Seating Capacity : 80

Working hours (on working days, on holidays, before examination days, during examination days, during vacation):





**TABLE 4.9: LIBRARY WORKING HOURS**

<b>WORKING DAYS</b> (Regular Working days, During examination days, During vacation)	<b>A.M.</b>	<b>P.M.</b>
Working Hours	08.30	06.00
Circulation Timings	08.30	06.00
<b>HOLIDAYS</b>		
Working Hours	09.00	03.30
Circulation Timings	09.00	03.30

Changes in timings during the vacation period will be informed through circular and also in the library notice board.

**TABLE 4.10: LIBRARY LAYOUT**

<b>S. NO.</b>	<b>AREA OF SECTIONS</b>	<b>SERVICE FOR USERS</b>
1	Individual Reading Carrels	No, But comfortable seating arrangements are provided.
2	Lounge Area for Browsing	8 systems are allotted for browsing in a separate room.
3	Relaxed Reading	Yes
4	IT zone for accessing e-resources	Digital Library

**4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.**

As per the requirements based on AICTE & Anna University norms, the requirements are collected from each department through Head of the Department. The library committee procures these after cross verifying the availability of the requirements. Accordingly, the library budget is allocated. The amount spent on procuring current titles, books, journals and e-resources during the last four years are as follows.

**TABLE 4.11: ANNUAL LIBRARY BUDGET (in Rupees)**

Library Holdings	Year - 1		Year - 2		Year - 3		Year - 4	
	2011-2012		2012-2013		2013-2014		2014-2015	
	Number	Total Cost	Number	Total Cost	Number	Total Cost	Number	Total Cost
Text Books	1280	4,66,124	2108	9,07,519	1320	5,14,276	618	1,73,803
Reference Books	30	10,500	42	14,700	60	21,000	24	8,400
Journals/ Periodicals	115	1,25,000	115	1,31,002	113	1,56,255	113	1,63,259
E-Resources	1	11,500	1	11,500	1	11,500	2	1,12,500
Any other (Specify) Workshop & E-Gate Scanner	-	-	-	-	1	25,000	-	-
News Paper	8	13,310	8	13,310	8	13,310	8	13,310

**4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?**

To make access to reading resources, a pleasurable activity and experience, the following technology tools are used.

**TABLE 4.12: ICT AND OTHER TOOLS**

<b>S.NO</b>	<b>NAME OF THE ICT &amp; OTHER TOOLS</b>	<b>QTY/ INTERNET BAND WIDTH SPEED</b>
1	OPAC (Online Public Access Catalogue)	Intranet through the browser based <b>WEB OPAC</b> module.
2	Electronic Resource Management package for e-journals	The Library has subscribed the following list of e-journal packages. 1.IEEE All Society Periodical Package 2.DELNET Database
3	Federated searching tools to search articles in multiple databases	Intranet through the browser based <b>WEB OPAC</b> module.
4	Library Website	No
5	In-house access to e-publications	In-house access to e-publications is possible, since the Journal is IP based subscription.
6	Library automation	Web based PalPap Library Management software Using Visual basic
7	Total number of computers for public access	8
8	Total numbers of printers for public access	2
9	Internet band width/ speed	14 Mbps
10	Institutional Repository	E-Learning
11	Content management system for e- learning	NPTEL, DELNET
12	Participation in Resource sharing networks/consortia (like INFLIBNET)	DELNET

#### **4.2.5 Provide details on the following items:**

##### **Library Resource Utilizations**

- ✓ Average number of walk-ins : 200 – 300
- ✓ Average number of books issued/returned : 100 – 150
- ✓ Ratio of library books to students enrolled : 1:13
- ✓ Average number of books added during last three years : 4172
- ✓ Average number of login to OPAC : 75 – 100
- ✓ Average number of login to e-resources : 25 – 50
- ✓ Number of information literacy trainings organized : Library  
Orientation program for individual classes during allotted library hours

#### **4.2.6 Give details of the specialized services provided by the library.**

##### **Reference**

A separate reference section is available. The Reference section provides a personalized service, where librarian has a scope to interact with the students to know their specific needs. Number of Dictionaries, Encyclopedias, Atlas, and General books, books related to various competitive examinations like TOEFL, GRE and Civil Services are made available to the students in this reference library section. The faculty also makes use of the reference library.

##### **Reprography**

Reprography services are provided to the students and also to the members of the faculty inside the library premises.

##### **ILL (Inter Library Loan Service)**

Inter Library Loan facility is also available.

If the demanded books are not available in the library, the same is arranged to our readers by borrowing books from other libraries on inter-library loan through DELNET and Institutional library membership.

##### **(Information Deployment and Notification)**

- ✓ Arrival of new books, journals, magazines is displayed on a separate display board to the students once they enter into the library.
- ✓ Current Awareness Services is Available.

**Download:** Downloading the required articles from the e-resources and from the internet is available for students and staff members.

**Printing:** A separate system is made available in the Library - Reprographic Section for taking printouts.

**Reading list/ Bibliography compilation:** Selective Dissemination of Information is made available.

**In-house/remote access to e-resources:** In-house LIS system is available to access the Library resources. E-Resources, Anna University Regulations, Syllabus, our faculty & students articles and Question papers are available on the Institutional Repository (D Space).

**OPAC (Online Public Access Catalogue) :** Through In-house Library and Information package, Online Public Access Catalogue is available for the users in which they can have the following search Options available are Title, Author, Title and Author, Accession Number, Publisher, Subject, User Account.

**User Orientation and awareness:** Well in advance, a circular is sent to all the departments, regarding awareness programs. According to their convenience, the awareness programme is arranged.

**Assistance in searching Databases:** Well-trained library staff is available to assist the students in searching the databases as and when the users require.

**INFLIBNET/IUC facilities:** Not Applicable

#### **4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the College.**

The Library staff always extends their services for the students and the members of the faculty in various aspects mentioned below:

- ✓ Imparting informative literacy programmes as and when the new sources are added to the library.
- ✓ Assisting the users in locating and retrieving information in the library.
- ✓ The old question papers are made available electronically through intranet and the printed versions are also available.
- ✓ Organizing seminars/workshops on the emerging trends to promote the use of library resources.
- ✓ Library staff assists in book issue, book return, Library Entry and OPAC search for using the library management system.
- ✓ Newspaper clippings are displayed on the notice board.
- ✓ Full-fledged service will be provided to the students to guide them during the Digital Library and Library hours.

#### **4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.**

The collections are available within the reach. The required books and reference materials can be supplied to their seat in the library. The library assistant will take care of them in all aspects for their comfort within the library.

#### **4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?).**

Yes, a suggestion box is available in front of library, and the suggestions are discussed in the library committee meetings to take appropriate actions.

### 4.3 IT INFRASTRUCTURE

#### 4.3.1 Give details on the computing facility available (hardware and software) at the Institution.

- ✓ Number of computers with Configuration (provide actual number with exact configuration of each available system.

**TABLE 4.13: IT INFRASTRUCTURE**

#### Server PC:

S.NO	MODEL	SPECIFICATION	QTY
1	2X QUAD-CORE SERVER	Proliant dl 180, 2x quad-core intel xeon processor, dual processor server (5300 sequence) 1.60 ghz, 80w, 1066 mhz fsb, 8 mb level 2 cache 4 gb(4x1 gb) pc2- 5300 ddr2 fully buffered dimms (667mhz) with advanced ecc capabilities/ radio 0, 1 capable/2xpc1 express slots/ dvd-rw optical drive/one integrated broad comm 10/100/1000 57003 nics default 4 internal disk only hp 250 gb sata x2.	01

#### Desktop PC:

S.NO	MODEL	SPECIFICATION	QTY
1	Dell 330 Desktop	Intel Core 2 Duo 2.4GHz, 1gb Ram, WD 160Gb HDD, 17" TFT Monitor, Dell Keyboard and Dell Optical Mouse	110
2	Acer Veriton Desktop	Intel Dual Core 2.4GHz, 1gb Ram, 160Gb HDD, 17" TFT Monitor, Acer Keyboard, Acer Optical Mouse	70

3	HP Desktop	Intel Core 2 Duo 2.93GHz, 2gb Ram, WD 160Gb HDD, 17" TFT Monitor, HP Keyboard and Optical Mouse	60
4	HP Desktop	HP Multi-seat Q9500, 6Gb Ram, 250gb HDD, 17" Monitor, HP Smart link PC, HP Keyboard & Optical Mouse	60
5	Assembled Desktop	AMD Athlon Processor 3ghz, Asus Motherboard, 2gb Ram, Seagate 500gb Hdd, Atx cabinet, Logitech Keyboard,	29
6	N Computing Device	L230 Model, Logitech usb Keyboard & Mouse	12
7	Dell 390 Desktop	Intel Core i3 Processor 3ghz, Intel H61 Chipset Motherboard, 2gb Ram, 320gb Hdd, , Dell Keyboard, Dell optical	120
8	Assembled Desktop	Intel Core i3 processor, Intel H61SA Motherboard, 2gb Ram, 500gb Hdd, Mercury Cabinet, Logitech Keyboard	50
9	Assembled Desktop	Intel Core i3 Processor 3.2Ghz, Intel 61WW Motherboard, 4gb Ram, 500gb Hdd, Mercury Cabinet, Genius Keyboard	70
10	Assembled Desktop	Intel Dual Core 2.89ghz Processor, Asus H61 Motherboard, 2gb Ram, Toshiba 500gb Hdd, Mercury	26

S.NO	NAME OF THE DEPARTMENT	TOTAL NO OF SYSTEMS
1	CSE	250
2	ECE	60
3	EEE	17
4	MECH	78

5	CIVIL	2
6	MCT	6
7	S & H	4
8	Others	190
<b>Total</b>		<b>607</b>

### Computer-Student Ratio

- ✓ UG students 1 : 4
- ✓ PG students 1 : 2

### Stand Alone Facility

- ✓ Online UPS with 30 minutes backup in all the labs.
- ✓ UPS Configuration: 130 KVA.

### LAN Facility

- ✓ The College has a well-connected LAN through CAT6 cable with 100/1000 Mbps speed.

### Wi-Fi Facility

- ✓ We have Wi-Fi facility with multiple access points.

**TABLE 4.14: AVAILABLE SOFTWARES**

#### Licensed Software:

#### System Software:

S.No	NAME OF THE SOFTWARE	LICENSE
1	Windows XP Professional	35 USERS
2	Windows 7 Professional	35 USERS
3	Fedora	Free
4	CENTOS	Free
5	Ubuntu	Free

**Application Software:**

<b>S.No</b>	<b>NAME OF THE SOFTWARE</b>	<b>LICENSE</b>
1	Microsoft Office 2007	10 USERS
2	Microsoft SQL 2008	10 USERS
3	Microsoft Visual Studio 2012	15 USERS
4	Microsoft Project	10 USERS
5	Rational Suite (Enterprise & Architect)	30 USERS
6	EDGE CAM	30
7	Auto Cad (Education Pack)	120
8	Staad Pro	10
9	Adams (Nastron & Patron)	150
10	Adobe Photoshop	5
11	Adobe Flash	5
12	Solid Edge	30
13	Digital Multimedia Language Lab	30
14	Tally ERP 9 (Education Version)	Multiuser
15	SPSS	10
16	Xilinx System Edition	25
17	Matlab	10
18	Mentor Graphics	25
19	Lab view	10
20	Turbo C, Turbo C++	Freeware
21	JDK1.6, JSDK	Freeware
22	Tomcat, Appache server	Freeware
23	Java Wireless Mobile Tool Kit	Freeware
24	WampServer2.0	Freeware
25	J2ME, J2SDK	Freeware
26	Net Beans 6.9	Freeware
27	NS2	Freeware
28	Python-2.7.1	Freeware

29	Eclipse	Freeware
30	My SQL Server	Freeware
31	Visual Paradigm	Freeware
32	Visual case	Freeware
33	Argo UML	Freeware
34	GCC Compiler	Freeware
35	NS2	Freeware
36	Opnet Academic Edition	Freeware
37	Autocad Educational Suite	Freeware

#### **Number of Nodes/ Computers with Internet Facility**

- ✓ The Institution has 120 computers with internet facility for the students.
- ✓ The Institution has 23 computers with internet facility for the members of the staff.

#### **Any Other**

- ✓ PALPAP Campus Management System for students.
- ✓ 100/1000 Mbps LAN for the whole campus.
- ✓ Biometric Staff Attendance Management System.
- ✓ LCD Projectors : 12Nos
- ✓ Printers : 54 Nos (Laser: 37, Dot matrix : 11, Multifunction : 2, Inkjet :3, Colour laser : 1)
- ✓ Scanner: 04Nos.

#### **4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?**

- ✓ A total number of 607 computers are available for faculty and students.
- ✓ The Computer lab consisting of 60 systems with 14 Mbps Internet connections is open to staff and students on all working days till 5.00 pm.

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

- ✓ Provisions are represented in the annual budget for addition of computer systems.
- ✓ Updated versions of existing software's are regularly replaced the old ones.
- ✓ Proposal to classrooms to be made smart and interactive.
- ✓ Proposal to increase the bandwidth of internet facility.
- ✓ Proposal to set up e-learning lab for students & staff.

**4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the Institution (Year wise for last four years)**

- ✓ Annual budget shown in the table 4.15

**TABLE 4.15: ANNUAL BUDGET**

S.NO	NAME OF THE ITEMS	YEAR WISE BUDGET (RS)				
		2011-12	2012-13	2013-14	2014-15	2015-16
1	Computer Equipment	11,92,799	22,03,747	4,85,076	3,93,090	2,11,042
2	Software	3,54,813	25,86,744	15,000	8,83,435	10,000
3	Consumable & Internet	13,475	41,647	24,000	42,612	47,231
		3,05,600	3,05,600	3,05,600	1,15,110	1,07,022
4	Service & Maintenance	6,58,340	6,23,980	4,57,398	3,53,025	2,47,672
<b>Total</b>		<b>2,525,027</b>	<b>5,761,718</b>	<b>1,287,074</b>	<b>17,87,272</b>	<b>6,22,967</b>

**4.3.5 How does the Institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?**

- ✓ Open access E-learning materials.
- ✓ Webinars enable both student and faculty to interact with subject experts across continents.
- ✓ Attendance and Internal Assessment are carried out through PALPAP software.

**4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms / learning spaces etc.) by the Institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.**

- ✓ The Institution has a large collection of online resources such as NPTEL, e-journals, e- books.
- ✓ Well-equipped computer labs and LCD projectors are available for faculty for conducting seminars, workshops, computer aided training, faculty development programs and conferences.
- ✓ The e-journal and e-library facility are available for both students and faculty members.
- ✓ Various Faculty Development Programs are conducted regularly.

**4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of?**

Yes, NPTEL membership is available.

#### 4.4 MAINTENANCE OF CAMPUS FACILITIES

**4.4.1 How does the Institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?**

Adequate physical facilities are provided on the College campus for facilitating teaching learning process. There is optimum use of the facilities available to maintain the quality of academic and other programmes on the campus. The management provides budget as per requirement. Miscellaneous maintenance is done by College. During the last 5 years the Institution has undertaken the following expenses.

**TABLE 4.16: MAINTENANCE EXPENSES (in Lakhs)**

S. No	HEAD	2011-12	2012-13	2013-14	2014-15	2015-16
1	Building	8.97	18.84	13.32	25.84	21.87
2	Equipment	0.79	6.23	4.57	3.53	3.41
3	Computer	5.55	4.39	5.97	3.93	5.14
4	Furniture	0	0.92	1.63	0.92	0.06
5	Others	18.98	26.52	13.50	15.03	8.89
<b>Total</b>		34.29	56.90	38.99	49.25	39.31

**4.4.2 What are the Institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the College?**

- ✓ Civil maintenance department looks after all the construction and maintenance works in the campus.

- ✓ A separate electrical maintenance team is functioning under a senior electrical engineering department faculty to look after electrical maintenance in the campus.
- ✓ The Institution has efficient housekeeping system consisting of gardeners, sweepers and scavengers. The entire system is monitored by housekeeping supervisors who is specifically appointed for this purpose.
- ✓ The class rooms, office rooms and corridors are regularly swept and mopped. Once in a week, the furniture's and roofs are dusted.
- ✓ Apart from regular maintenance, contractual agreement with local service providers is in place to maintain the drinking water machines and toilet cleaning system.
- ✓ The maintenance fund is created in order to cater to meet the maintenance requirement.
- ✓ Pest control is carried out on a regular basis.

**4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?**

- ✓ Annual maintenance and repair of the infrastructure is taken care of by the College systematically.
- ✓ The Institution calibrates and repairs the laboratory instruments and measuring equipment's with the help of suppliers.
- ✓ Calibration of the equipments (CRO, measuring meters, function generators, etc.) used is done by the faculty/technicians at the beginning of every academic year.

#### 4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc)?

The major steps are taken by the Institution to upkeep and maintain the sensitive equipment's as follows,

- ✓ The Institution has installed UPS and Stabilizers for sensitive equipment's in the premises to prevent from high voltage fluctuations.
- ✓ In the Institution MCB's (Circuit breaker) have been installed to prevent from high voltage fluctuation and switch fuse in case of short circuits.
- ✓ There is a generator with (160KVA) as stand-alone facility for the entire campus.
- ✓ Solar street lamps are installed inside the campus.
- ✓ Supply of quality water is ensured through bore wells and corporation water board supply.

Fire Extinguisher



Book Store



Medical Room



Conference Room



Auditorium



Seminar Hall



Caferia



Hostel Room



Boys Hostel



Girls Hostel



Boys Dining Hall



Girls Dining Hall



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

### **5.1.1 Does the Institution publish its updated prospectus / handbook annually? If “yes”, what is the information provided to students through these documents and how does the Institution ensure its commitment and accountability?**

Yes, the Institution releases a hand book every year in which the points of interest indicating the Vision, Mission, Quality strategy, the different courses offered, the companies with which MOUs signed, members of administering board, members of teaching and non-teaching community of different departments, anti-ragging committee, grievances redressal cell, Educational program substance of different undergraduate and post graduate courses, general principles and regulations, regulations for UG and PG courses of Anna University, exercises of the placement cell, Industry Institutional Collaborations, College Achievements, Anna University Rank holders, library standards and regulations. The organization is focused on the data given in the handbook in all aspects.

All the details about the College and activities conducted in the College are regularly updated in the College website. All the details are provided with the consent of the Head of the Institution. Hence the commitment and accountability is ensured. The same data, which is distributed in the handbook, are likewise upgraded on the College website: [www.ppg.edu.in](http://www.ppg.edu.in).

### **5.1.2 Specify the type, number and amount of Institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?**

The Institution helps the student in identifying and applying for various scholarships offered by the government and other Institutions.

**TABLE 5.1: SCHOLARSHIP FOR BC, MBC & DNC**

<b>S. NO</b>	<b>YEAR</b>	<b>CATEGORY</b>	<b>SANCTIONED NUMBER</b>	<b>SANCTIONED AMOUNT (RS.)</b>
1	2011-2012	BC	384	19,72,882
		MBC/DNC		
2	2012-2013	BC	475	19,21,071
		MBC/DNC		
3	2013-2014	BC	604	30,22,460
		MBC/DNC		
4	2014-2015	BC	523	25,56,245
		MBC/DNC		
5	2015-2016	BC	427	19,78,975
		MBC/DNC		

The Institution helps the student in identifying and applying for various scholarships offered by the government and other Institutions.

**TABLE 5.2: FEE CONCESSION GIVEN BY THE INSTITUTION**

<b>S. No.</b>	<b>Year</b>	<b>Number of Students</b>	<b>Amount (Rs.)</b>
1	2011-2012	7	1,72,500
2	2012-2013	4	90,000
3	2013-2014	22	4,95,000
4	2014-2015	33	7,45,000
5	2015-2016	55	17,85,000

**TABLE 5.3: SCHOLARSHIP FOR SC & ST**

S. No.	Academic Year	Community	Number of Students benefited	Sanctioned Amount (Rs.)	
				SCHOLARSHIP	TFW
1	2011-2012	SC	47	1,87,120	7,55,380
		ST	0	0	0
		Total	47	1,87,120	7,55,380
2	2012-2013	SC	64	2,04,150	15,10,000
		ST	0	0	0
		Total	64	2,04,150	15,10,000
3	2013-2014	SC	84	7,79,450	35,25,000
		ST	0	0	0
		Total	84	7,79,450	35,25,000
4	2014-2015	SC	73	6,79,150	33,70,000
		ST	0	0	0
		Total	73	6,79,150	33,70,000
5	2015-2016	SC	80	6,40,880	15,09,000
		ST	0	0	0
		Total	80	6,40,880	15,09,000

**TABLE 5.4: FEE WAIVER FOR FIRST GRADUATE BY STATE  
GOVERNMENT**

S.NO.	YEAR	COMMUNITY	NO. OF STUDENTS	AMOUNT RS
1	2011-2012	BC/MBC/DNC	286	57,20,000
		SC/ST	34	6,80,000
2	2012-2013	BC/MBC/DNC	440	88,00,000
		SC/ST	42	8,40,000
3	2013-2014	BC/MBC/DNC	617	1,23,40,000
		SC/ST	0	0
4	2014-2015	BC/MBC/DNC	564	1,12,80,000
		SC/ST	0	0
5	2015-2016	C/MBC/DNC	505	1,01,00,000
		SC/ST	0	0

**TABLE 5.5: OTHER SCHOLARSHIPS**

S. NO	SCHOLARSHIP SANCTIONED BY	NO. OF STUDENTS	AMOUNT (RS)	DATE	YEAR
1	National Foundation for Teachers	9	93800	25.07.2013	2010-2011
2	DOTE - Uzhavar Scholarship	2	213600 + 10800	07.05.2014 21.08.2014	2010-2011

**TABLE 5.6: FEE WAIVER GIVEN BY THE INSTITUTION  
(FREE EDUCATION FOR MERITORIOUS STUDENTS)**

<b>S. NO.</b>	<b>YEAR</b>	<b>NUMBER OF STUDENTS</b>	<b>AMOUNT (Rs)</b>
1	2012-13	2	20,000
2	2013-14	3	1,00,000
3	2014-15	7	2,20,000
4	2015-16	13	4,30,000

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

The College supports the scholarship needs of the students from the rural zones. Many students from economically weaker sections of the society and first graduates in their family receive financial assistance from the Central Govt., State Govt., and other agencies. Nearly 60% students of our College are benefited from these scholarships which help them complete their education without any hindrance.

**5.1.4 What are the specific support services / facilities available?**

The College supports the meritorious students who hail from economically weaker sections by offering them scholarship. Also the College guides the students to avail the scholarship provided by the Government and other agencies.

**Students from SC/ST, OBC and economically weaker sections**

The students who fit in with SC/ST, OBC and the financial weaker segments are identified during admission. The College keeps up a detailed record of the same. These students are given all possible help during their period of study

in the College. The College offers fee concessions to such students. The Government of Tamilnadu has announced the tuition fee waiver scheme for the SC/ST students. Apart from the Central Government, State Government and the University supported grants, Other agencies like Vijayalakshmi Trust provides scholarships to meritorious students and the establishment helps the students in securing it. Besides this, every year the College Management provides fees concession for meritorious students of economically weaker section.

### **Students with Physical Disabilities**

There are reservations for physically disabled students as per the Government of Tamilnadu guidelines. Special care and attention are given to those students for their comfortable study. They are provided with ramp facilities, wheel chair, lift and ground floor classrooms to support them to achieve in their studies. Specially designed toilet facilities are also provided to those students. It is guaranteed that they don't have any physical hindrance.

### **Students to participate in various competitions/National and International level**

The College organizes technical paper presentations, seminars, conferences and workshops for the students. Students are provided with on-duty and technical support to participate in the symposiums, project contest and other events organized by the other Colleges. Guest lectures by experts are organized by the respective departments of the College through Seminar / Workshops, Symposiums, Paper Presentations, Presentation on Communication ability improvement, for the benefit of the students, for that, on duties are provided and flexibility is given in internal examination schedules. The students are facilitated with internet facilities to explore different journals and magazines to meet their technological updates.

**Medical assistance to students: health center, health insurance etc.**

The Trust runs a 110 bed Multi-disciplinary hospital located at 10 KM from the Institution. The hospital offers complete health solutions for various ailments. To ensure medical support, first aid boxes are provided in all the departments and College buses. The Health centre with a visiting doctor provides necessary medical needs for the students. Students and faculty have availed medical aid at concessional rates. The students are covered by an accident insurance policy at the time of admission.

**Organizing coaching classes for competitive exams**

Coaching classes are conducted and study materials are provided for taking up competitive exams through the career guidance cell. Special training classes are conducted in developing aptitude skills, communication skills, and technical skills. Guest lectures and motivational programmes are also arranged from eminent personalities. Question banks for competitive exams and books are available in the library.

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

Centre for Campus to Corporate develops student's communication and their personality by conducting training classes and other activities. During the evening hours, students are categorized on the basis of their capabilities into three groups and various events based on the skill set of the students are conducted. A separate language lab has also been provided to improve the communication skills of the students. Internet laboratory is an additional facility for the development of the students. Bridge courses in subjects like English, Mathematics, Physics, and Computer Programming are conducted for first year students.

### **Support for “Slow Learners”**

Slow learners are identified in each class based on their daily tests, and special coaching classes are conducted for the slow learners by the subject teachers during the evening hours if necessary. Retests are also conducted for improvements. A counselor is assigned to every class for a batch of 15 students to provide personal counseling and parental care. Assignments and tests help the students to perform better. Tutor ward meetings are conducted to identify their difficulties in their studies and their personal issues and proper counseling is given. Supplementary materials like Question bank and previous year University Question Papers are provided.

### **Exposure of students to other Institution of higher learning / corporate / business / house**

- ✓ Guest lectures by eminent speakers are organized to help the students to keep in pace with the recent developments in their Courses.
- ✓ Value added courses are conducted to acquire more knowledge.
- ✓ Students are also taken for Industrial visits to interact with the industrialists and keep in touch with the latest technological developments.
- ✓ Students are motivated to attend seminars, conferences, workshops, industrial visits and in-plant training.
- ✓ Students are exposed on higher education by the career guidance programs.
- ✓ Mock tests, mock interviews and group discussions are conducted.

### **Publication of student magazines**

The departments of the Institution bimonthly release a newsletter “PPG Pravaah” with participation from the students.

**5.1.5 Describe the efforts made by the Institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.**

The Entrepreneurship Development Cell is formed to create more number of students as entrepreneurs. The purpose behind this cell is to develop students across socio-economic backgrounds, who dare to dream, make a difference, strive for excellence, and believe in the capability in themselves and the perseverance to convert their thoughts into action. The cell plans to prepare a younger generation entrepreneurs to the economic and social development of our mother nation. Also EDC organizes motivational talks and guest lectures by inviting the successful entrepreneurs to the campus.

**TABLE 5.7: LIST OF ENTREPRENEURES**

<b>S.NO</b>	<b>BATCH</b>	<b>NAME</b>	<b>COMPANY</b>
1	2008-2012	Sandeep. B	Sandroid Solutions
2	2010-2014	Deepak karthik .K	Home Automation
3	2010-2014	Gowtham.S	Universal Power Supplies

**5.1.6 Enumerate the policies and strategies of the Institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.**

**Organizing Symposiums and Conferences:**

Students are very active in organizing symposiums and conferences through department association. These events are completely run by the student committees. Students are encouraged to organize and participate in house and

external symposiums and conferences conducted in various Colleges.

#### **Additional academic support, flexibility in examinations**

Retests are arranged for the students who participate in the events conducted by other Institutions at the time of internal exams.

#### **Special dietary requirements, sports uniform and materials**

Sports uniform and other sports materials are given to the students who are participating at zonal and University level competitions.

#### **Any other**

- ✓ Permission is given for students to participate in various competitions with on duty.
- ✓ The Institution provides sufficient court space and sports equipment to practice other outdoor games like volleyball, cricket etc., Indoor games like table tennis, chess and carrom are available for both male and female students.

#### **5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOEFL / GMAT / Central / State services, Defense, Civil Services, etc.**

The Career guidance cell and Training & Placement Cell notifies students and provides information about competitive examinations. Aptitude tests are conducted in house by the departments and also by external agencies. Centre for Campus to Corporate provides training to improve soft skills and their communication skills. Online materials, solved question bank with answer keys and important website addresses are also provided to them. Besides this, our central library provides question banks and books for all competitive exams.

Higher Education Cell of our College provides the guidelines and arranges coaching classes to the students to proceed with their competitive exams.

**TABLE 5.8: LIST OF STUDENTS APPEARED FOR VARIOUS COMPETITIVE EXAMS**

<b>S.NO.</b>	<b>EXAM</b>	<b>TOTAL NO OF STUDENTS</b>
1	Railway Exams	2
2	TNPSC Exams	2
3	GATE Exams	93
4	TANCET Exams	45
5	GMAT	1
6	Indian Air Force	1

**5.1.8 What type of counseling services are made available to the Students (academic, personal, career, psycho-social etc.)**

**Academic and Personal Counseling:**

The counselor monitors the students academic, co-curricular and extracurricular activities and provides necessary counseling for their improvement. Apart from this, the class advisor of each class provides counseling to their personal and academic related problems. The HoD provides necessary counseling to any specific problem and to take corrective measures for any irregularity or deviation in the progress of the students in academic pursuits. In hostel, the faculty members staying in the hostel interact with the students and identify their personal problems and offer solutions.

**Career counseling:**

Guest lectures, motivational talks and interactions with eminent entrepreneurs and industrialists are arranged regularly for the benefit of the students. Also value added courses are conducted to enhance the placement opportunities of the students. Various awareness programs with external experts are provided to the students. The faculty members of Centre for Campus to Corporate conduct personality development classes and soft skills training to improve the student's personality and career. Placement coordinators in every department provide the details of opportunities in core fields and other placement requirements. Besides, every individual faculty member also guides and suggests placement opportunities to the students for their career development. Career counseling is given by Career Guidance Cell, it assists students in understanding their strengths, interests, skills and passion which influence their career decisions.

**Psychological Counseling:**

The Grievance Redressal Cell helps the students and provides solutions to the problems they come across during the course. Students who have personal problems like relationship issues, family problems, poor self-esteem, and adolescent problems are counseled by inviting the psychologists. They strive to access at an optimal/amicable solution through counselling. Beside this HoDs and class advisors regularly meet the students and counsel them.

**5.1.9 Does the Institution have a structured mechanism for career guidance and placement of its students? If yes, detail on the services provided to help students identify job opportunities and prepare themselves for interviews and the percentage of students selected during campus interviews by different employers (list the employers and the program).**

Yes, The Institution provides a structured mechanism through placement cell which provides the career guidance and placement for the students. The

Institution has a placement cell which is effectively functioning under a placement officer and a placement coordinator. The responsibility of the placement cell is to identify the skills that are required to be possessed by the students as per the requirements of the companies and arrange for training programs for developing such skills among the students. The team of faculty members with corporate and industrial experience provides the necessary guidance and all the placement related trainings.

Personality development, communication skills and aptitude trainings are provided regularly. Accordingly the trainings like resume preparation, group discussions and mock interviews are conducted for the students in the evening hours. The external people from the department of HR from reputed companies are also invited to train our students. Thus a number of training programs are organized to develop the communication skills, mathematical and aptitude, group discussion and technical skills by the professors and professional trainers.

**TABLE 5.9: LIST OF RECRUITERS-ON CAMPUS & OFF CAMPUS**

Pyramid communication Pvt. Ltd	Xi Links IT Solution India Pvt. Ltd	Win IT	Info Vista
Millennium Info Tech	Bobby support solution Pvt. Ltd	Kadevi Engineering Company Pvt. Ltd	VMC Limited
Sons India Software Pvt. Ltd	RMS solution	Blue Star Technologies	Assurgent Technology Solution
CTS	Six Sigma Pvt. Ltd	Marla Technologies	Sathyam Computer Ltd
Wipro	Infosys	HCL	Mind tree
Maples	Syntel	Flakt Woods	Idea Cellular
DGS-Ts	DELL	TCS	Google –India Ltd
Info vision tech	ICICI	HP	IBM
Acheon technologies	Sans Pareil Services Pvt. Ltd	Ideaz Globle	Sutherland Global Services
Metis Structure	Xchanging technology services	VEE technologies	Ariyan IT Solution

Symbiotic Info Tech Ltd	Sof Mac Solution	First Source	Soft Max Solution
AIN Technologies	KGISL	NTT Data	KBLUES
Aee Bee	Intabec Technologies	G-Guard Engineering	Care Renewable Pvt. Ltd
C-Cubed Solution	Cloud Koncepts	Lanco Industries	Vento Info Tech
M Modal Service	HCL Bserv	V Dart-HCL	Mphasis Ltd
Kumar Industries	E-sync Security Solutions	EP Software Solution	CSS Corps
HSS BIM Solution Pvt. Ltd	Polaris Consulting & Service Ltd	Bosch	VLF Solution Ltd

**TABLE 5.10: PERCENTAGE OF PLACED STUDENTS**

<b>Branch</b>	<b>Year</b>	<b>Total Number of Students Registered</b>	<b>Recruited through Campus Selection</b>	<b>Percentage</b>
<b>CSE</b>	2011-2012	50	14	28
	2012-2013	41	25	61
	2013-2014	63	46	73
	2014-2015	38	28	74
<b>ECE</b>	2011-2012	41	5	12

	2012-2013	36	9	25
	2013-2014	41	11	27
	2014-2015	28	8	29
<b>EEE</b>	2011-2012	41	15	37
	2012-2013	44	36	82
	2013-2014	41	32	78
	2014-2015	28	5	18
<b>MECH</b>	2012-2013	50	2	4
	2013-2014	59	4	7
	2014-2015	57	3	5
<b>CIVIL</b>	2013-2014	49	3	6
	2014-2015	34	6	18
<b>IT</b>	2013-2014	54	43	79
	2014-2015	32	18	56

**5.1.10 Does the Institution have a student Grievance Redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.**

Yes, Grievance & Redressal Committee has been established comprising the Principal, Deans and Heads of Departments.

The responsibility of this cell is to redress any grievances relating to the difficulties faced by the students with regard to academic activities or the facilities provided. It has so far not had any major issue involving human rights violation, gender bias or social discrimination. As we have a transparent system of administration in our Institution, all complaints and suggestions will be recorded in the suggestion register which are analyzed by the Grievance Redressal Cell and appropriate action will be taken at the earliest.

**TABLE 5.11: LIST OF GRIEVANCE REDRESSED**

<b>S.No</b>	<b>Grievances</b>	<b>Action plan</b>
1	Existing Library timings insufficient	Library Timings have been extended up to 6.30pm
2	Water Doctor maintenance	Arrangements made as per the requirement
3	Xerox machine inside the campus	Installed a photocopying machine at stores
4	Students required more placement training classes.	The Centre for Campus to Corporate has been created to provide more placement training by recruiting sufficient trainers
5	The hostel students need extra coaching classes during night time.	Staff members are made available for extra coaching class during 6.00 P.M to 8.00PM

**5.1.11 What are the Institutional provisions for resolving issues pertaining to sexual harassment?**

In our campus, Sexual Harassment Internal Complaints Committee is functioning to look after the issues related to sexual harassment. Grievances Redressal Cell and Women Development cell also take care of solving the issues pertaining to sexual harassment if it arises. No such issues have arisen so far.

Since continuous counseling is given to the students in the class, no incident of sexual harassment is reported so far

**TABLE 5.12: GRIEVANCES REDRESSAL AND WOMEN  
DEVELOPMENT COMMITTEE**

<b>S.No</b>	<b>Members</b>	<b>Position</b>
1	Dr.V.Bindhu	Chair person
2	Dr.R.Prakasam	Ex- Officio
3	Dr.C.Annadurai	Ex- Officio
4	Mr.R.Dakshinamoorthy	Member
5	Mr.D.Saseedharan	Member
6	Prof. P.Sathiyaseelan	Member
7	Dr.P.P.Joby	Member
8	Prof.V.Saravanakumar	Member
9	Prof. D.Rajeswari	Member
10	Prof.S.Devaneyan	Member
11	Prof.C.Mahesh	Member
12	Prof. P.Manonmani	Member
13	Mr.M.Manoharan	Member
14	Mrs.M.Vaijyanthi	Member
15	Dr. Geetha Veeramuthu	External Member

**5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?**

Yes, the College has an anti-ragging committee as per AICTE and Anna University guidelines to handle the issues related to ragging. The mobile numbers of the committee members are displayed in front of the College main building, boy's hostel and girl's hostel. The team members are always vigilant and they

interact with freshers and make surprise raids inside the campus and hostel premises.

The awareness among the students regarding the committee and the punishments prescribed by the law is created then and there. As per the direction from the Government, anti-ragging affidavits have been collected from all the students and parents. No such examples are accounted so far. This College is free from ragging backgrounds. There has been no incident of ragging reported in the campus so far because of active performances of the anti-ragging committee.

**5.1.13 Enumerate the welfare schemes made available to students by the Institution.**

- ✓ Best outgoing student award.
- ✓ Awards to class toppers.
- ✓ Transport facility to all points in Coimbatore and neighboring towns.
- ✓ 24x7 Concessional medical assistance at Ashwin Hospital.
- ✓ Ambulance facility during emergencies.
- ✓ Provision of insurance and medical policy.

**5.1.14 Does the Institution have a registered Alumni Association? If yes, what are its activities and major contributions for Institutional, academic and infrastructure development?**

Yes, the Institution has an Alumni Association and the alumni coordinator arranges the alumni meet every year. The College has a strong support of alumnus and well established network. The College gets the fruitful suggestions and feedbacks related to the curriculum and development of the Institution. They share their experiences and memories in the College and interact with their juniors. Also they are honored with mementos. Some of our alumni are

periodically visiting the College and take classes to their juniors to make them improve their soft skills and fulfill the industry requirements.

## 5.2 STUDENT PROGRESSION

### 5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlights the trends observed.

The details of student progression to higher education and employment are represented below:

**TABLE 5.13: PERCENTAGE OF STUDENTS PROGRESSING TO HIGHER EDUCATION AND EMPLOYMENT**

<b>Student Progression</b>	<b>2008 - 2012</b>	<b>2009 - 2013</b>	<b>2010 - 2014</b>	<b>2011- 2015</b>	<b>2012- 2016</b>
<b>Information Technology</b>					
Higher Education	5	3	6	2	-
Campus recruitment	14	8	79	56	-
Other than campus recruitment	43	23	5	20	-
<b>Computer Science and Engineering</b>					
Higher Education	5	3	6	2	-
Campus recruitment	28	61	73	74	29
Other than campus recruitment	43	20	15	10	40
<b>Electronics and Communication Engineering</b>					
Higher Education	5	6	6	2	-
Campus recruitment	12	25	27	29	35
Other than campus recruitment	25	16	25	25	22
<b>Electrical and Electronics Engineering</b>					
Higher Education	9	5	8	6	-
Campus recruitment	37	82	78	18	13

Other than campus recruitment	10	2	4	15	20
<b>Mechanical Engineering</b>					
Higher Education	-	6	8	6	-
Campus recruitment	-	4	7	5	15
Other than campus recruitment	-	14	22	14	12
<b>Civil Engineering</b>					
Higher Education	-	-	2	6	-
Campus recruitment	-	-	6	18	4
Other than campus recruitment	-	-	14	10	12

**5.2.2 Provide details of the program wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the University)? Furnish programme-wise details in comparison with that of the previous performance of the same Institution and that of the Colleges of the affiliating University within the city/district.**

**TABLE 5.14: PASS PERCENTAGE AND COMPLETION RATE**

**UG**

<b>Year of Passing</b>	<b>No. of Students Appeared</b>	<b>No. of Students Passed</b>	<b>Pass Percentage</b>	<b>University Ranks</b>
<b>Information Technology</b>				
2012	53	37	69.8	-
2013	12	9	75	1
2014	63	43	68.25	2

2015	48	32	66.7	-
<b>Computer Science and Engineering</b>				
2012	61	50	82	1
2013	34	25	73.5	1
2014	69	46	66.7	2
2015	53	38	71.6	-
<b>Electrical and Electronics Engineering</b>				
2012	64	41	64	3
2013	55	36	65.4	-
2014	70	41	58.5	2
2015	60	28	46.6	-
<b>Electronics and Communication Engineering</b>				
2012	61	54	89	2
2013	59	40	68	-
2014	69	56	81	2
2015	111	72	65	-
<b>Mechanical Engineering</b>				
2013	54	50	92.59	-
2014	73	59	81	1
2015	65	57	88	-
<b>Civil Engineering</b>				
2014	63	49	77.77	-
2015	67	34	50.74	-

## PG

Year of Passing	No. of Students Appeared	No. of Students Passed	Pass Percentage	University Ranks
<b>Computer Science and Engineering</b>				
2014	16	14	87.5	1
2015	15	13	87	1
<b>Electrical and Electronics Engineering</b>				
2015	11	8	72.7%	1
<b>Electronics and Communication Engineering</b>				
2014	18	16	89	1
2015	14	14	100	1
<b>Mechanical Engineering</b>				
2015	11	9	82	1

### 5.2.3 How does the Institution facilitate student progression to higher level of education and/or towards employment?

- ✓ The College provides modern teaching aids to the teachers to increase the learning interests of the students.
- ✓ The central library increases the students "self learning interest" by providing required books, e-journals, video lectures and other resources. Seminars, Guest lectures and workshops are organized regularly to augment the interests of the students in learning.
- ✓ The Centre for Campus to Corporate provides placement oriented training to the students.
- ✓ In addition to this, experts from the industries and our alumni who work in reputed industries are invited to address the students about industry scenario.

- ✓ Motivational talks by various eminent people and HR officers are also arranged from the Industry HR people.
- ✓ The College has signed MoU with many industries and thereby conduct employment related activities and provides in plant training to the students.
- ✓ Career guidance and value added programs are held in preparing students for the higher level of education and also towards employment.
- ✓ Systematic training is provided for all the students by the training and placement cell to make them more employable. Opportunities are provided for the students for placement in various companies through on and off campus by training and placement cell.
- ✓ The students are motivated to attend in plant trainings and do their projects with the core industries to get a better exposure about employment.
- ✓ Training programs are arranged based on recent trends to facilitate the students to understand the significance of employment and higher education.

**TABLE 5.15: MOTIVATIONAL PROGRAMS TO HIGHER STUDIES AND EMPLOYMENT**

<b>S.NO</b>	<b>DATE</b>	<b>PROGRAMME</b>
1	May 2011 (2 week)	Program by Hope Factory
2	26.07.2011	Industry expectations
3	05.08.2011	Career opportunities in finance sector
4	8.08.2011	Career opportunities in Indian Army
5	20.08.2011	What industries expecting from current talent
6	22.09.2012	Career opportunities on semi conductor sectors
7	31.01.2013	Career Awareness and Dot Net Technologies
8	11.01.2015	Importance of Mathematics
9	10.02.2015	Career Consulting
10	24.03.2016	Government Exams Awareness

**5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?**

- ✓ Regular counseling by the subject handling staff, class advisor, tutor and head of the department helps restore confidence. When failure is due to psychological issues, professional counseling is given.
- ✓ Faculty members and parents interact with students who are at risk of drop out to find out the solutions to enable them to continue studies.
- ✓ Retests and assignments are given to students to improve their academic performance.

### 5.3 STUDENT PARTICIPATION AND ACTIVITIES

#### 5.3.1 List the range of sports, games, cultural and other extra-curricular activities available to students. Provide details of participation and program calendar.

The College offers a broad assortment of chances for recreations, diversions, social and extracurricular deeds. The College has continually made a corner for itself in the field of games and activities. The College has been providing distinctive inter College and College level competitions. The College also provides recreations through games like cricket, football, Volleyball, Kabbadi and other indoor games. The Director of Physical Education inspires the students to take part in various activities. Our students excelled in various events and tournaments conducted in state and national levels.

The College conducts Annual Sports Meet, Annual Day on the College grounds by providing various social and extracurricular exercises like Classical singing, Group singing, Cultural events, Quiz and Literary events to the students. The students are also provided with opportunities to bring out their talents in Tamil mandram, Pongal festivals and Onam celebrations.

OUTDOOR GAMES				INDOOR GAMES		
S.No	Names of the Games	Number of Grounds (Courts)	Size(M)	S.No	Names of the Games	Number of the Courts/Boards
1	Volley ball	2	28 x 44	1	Carom	2
2	Kabaddi	2	20x35	2	Chess	10
3	Hand ball	1	50x35 (Field)	3	Table Tennis	1
4	Badminton	2	20x20	-	-	-

**5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / international, etc. for the previous four years.**

The students have excelled in co-curricular and extracurricular meets. Students have brought laurels to the Institution by winning numerous awards in technical and extracurricular events.

**TABLE 5.16 : STUDENT ACHIEVEMENTS**

<b>Electronics and Communication Engineering</b>					
<b>S.No.</b>	<b>Year</b>	<b>Student name</b>	<b>Event name</b>	<b>Venue</b>	<b>Prize won</b>
1	2012-13	Aravind.J.S Dinesh Kumar.K	Paper Presentation	Akshaya College of Engineering & Technology, SNS College of Engineering	1 <sup>st</sup> Prize
2		Raja.R Gowthamkumar. M Yuvaraj.M	Best Manager	Kumaraguru College of Technology	2 <sup>nd</sup> Prize
3		Kanimozhi.N.M Saranya.M	C Programming	Kumaraguru College of Technology	2 <sup>nd</sup> Prize

4		Rajalakshmi.K	C Programming	Kumaraguru College of Technology	3 <sup>rd</sup> Prize
5	2012-13	Raja.R Gowtham Kumar.M Yuvaraj.M Parthiban.A	Project Presentation	Kathir College of Engineering	2 <sup>nd</sup> Prize
6		Yuvaraj.M Raja.R	Circuit Debugging	Kathir College of Engineering	3 <sup>rd</sup> Prize
7		Parthiban.A	Best Manager	Kumaraguru College of Technology	1 <sup>st</sup> Prize
8	2013-14	Mary Shaly Cynthia Lavanya.M	Technical Quiz	Coimbatore Institute of Engineering and Technology	1 <sup>st</sup> Prize
9		Madhumitha Ravi	Multimedia Presentation	SNS College of Technology	1 <sup>st</sup> Prize
10	2014-15	A.Parthiban M.Gowtham Kumar	Project Presentation	State Level Science Exhibition At Kongu Engineering College	1 <sup>st</sup> Prize

11		R.Sundara pandian	Mr.Anna university	State level-Inter Zonal	1 <sup>st</sup> place
12	2015 -16	R.Sundara pandian	Mr.INDIA	Central Government	6 <sup>th</sup> place National level
13		R.Sundara pandian	Mr.TamilNad u	Tamil Nadu Government, IBBF	1 <sup>st</sup> place State level
14		M.Narayanan D.Prem Daniel	Paper Presentation	Tamil nadu College of Engineering	1 <sup>st</sup> Place
15		M.Nivedhya M.Deepa R.Niranchana P.Sumithra	Circuit Debugging, Project & Paper Presentation	Tejaa Shakthi Institute of Technology for Women	Overall Champions
<b>Mechatronics Engineering</b>					
1	2014-15	Jipson M L	CAD contest	United Institute of Technology	3 <sup>rd</sup> prize
2		Vijayakumar T	CAD contest	United Institute of Technology	3 <sup>rd</sup> prize
3		Balakrishnan S	Dance	Hindusthan College of Technology	Consolidation Prize

4	2015-16	Gowtham G	Symposium	Dr Mahalingam College of Engineering and Technology	All Round Performer
5		Blesson.M	Paper Presentation	Nehru Institute of Engineering and Technology	1 <sup>st</sup> prize
6		Harishankar K	Paper Presentation	Nehru Institute of Engineering and Technology	1 <sup>st</sup> prize
7		Gowtham G	CAD Modeling	Nehru Institute of Engineering and Technology	1 <sup>st</sup> prize
8		Balakrishnan S	Inter-College cultural festival	PSG College of Technology	3 <sup>rd</sup> prize
9		Nareshkumar S	Inter-College Cultural Festival	PSG College of Technology	3 <sup>rd</sup> prize
10		Vasanth T	Inter-College Cultural Festival	PSG College of Technology	3 <sup>rd</sup> prize
<b>Civil Engineering</b>					
1	2012-13	S.Vivek	Paper Presentation	Akshaya College of Engineering and Technology	1 <sup>st</sup> Prize

2		S.Vidyakar	Paper Presentation	Jansons Institute of Technology	1 <sup>st</sup> Prize
3		S.Vidyakar	Paper Presentation	Akshaya College of Engineering and Technology	3 <sup>rd</sup> Prize
4		S.Vivek	Paper Presentation	Sri Guru Institute of Technology	1 <sup>st</sup> Prize
5	2013-14	S.Vidyakar	Model Making	KGISL	1 <sup>st</sup> Prize
6		S.Vidyakar	Paper Presentation	KGISL	1 <sup>st</sup> Prize
7		S.Vivek	Model Making	KGISL	1 <sup>st</sup> Prize
8		S.Vivek	Paper Presentation	KGISL	2 <sup>nd</sup> Prize
9		C. Arul Nambi	Code Cracking	Tamilnadu College of Engg.	1 <sup>st</sup> Prize
10	2014-15	A.Manimaran	Spell Bee	Karpagam University	1 <sup>st</sup> Prize
11	2014-15	A.Manimaran	Code Cracking	Sri Ramakrishna Institute of Tech.	2 <sup>nd</sup> Prize

12		K.Ayyappan	CADD Quest	Karpagam University	2 <sup>nd</sup> Prize
13		K.Ayyappan	Technical Quiz	Tamilnadu College of Engg.	2 <sup>nd</sup> Prize
14		K.Ayyappan	CADD Master	Sri Ramakrishna Institute of Tech.	2 <sup>nd</sup> Prize
15		K.Ayyappan	Code Cracking	Sri Ramakrishna Institute of Tech.	2 <sup>nd</sup> Prize
16		V.Rathnavel	CADD Contest	Tamilnadu College of Engg.	2 <sup>nd</sup> Prize
17		D.Sivaramarathinam	Code Cracking	Tamilnadu College of Engg.	1 <sup>st</sup> Prize
18		R.Kavin	Technical Quiz	Tamilnadu College of Engg.	2 <sup>nd</sup> Prize
19		R.Bhuvanesh	Model Expo	NSN College	2 <sup>nd</sup> Prize
20		P.Manoj Kumar	Model Expo	NSN College	2 <sup>nd</sup> Prize
21		S.Menaka	Model Expo	NSN College	2 <sup>nd</sup> Prize

22	2014-15	S.Kishore	Model Expo	NSN College	1 <sup>st</sup> Prize
23		S.Kishore Anand	Model Expo	NSN College	1 <sup>st</sup> Prize
24		P. Muthu Kumar	Model Expo	NSN College	1 <sup>st</sup> Prize
25		V.Banu Prasad	Model Expo	NSN College	1 <sup>st</sup> Price

**Computer Science and Engineering**

1	2012-2013	Arsath S	Hacking	SNS College of Engineering	Second
2		Dharirsham B	Poster Design	SNS College of Engineering	Third
3		Prabakaran M	Poster Design	SNS College of Engineering	Third
4		Arsath S	LAN Gaming	SNS College of Engineering	First
5		Revathy S	Web Component	NIIT	Good

6		Sneha S	Web Component	NIIT	Good
7		Dinto Davi T	WPF And ASP.Net Application	NIIT	Satisfactory
8		Dinto Davi T	National Aptitude Test	NIIT	High
9	2015-16	Dennis Simon Raghav Sree Kumar	National Level Technical Symposium	PSG Arts & Scinece College	Paticipation
10		A.Benita R.Harishma V.Nithyashree	Hands on Training on "Into the clouds"	SNS college of Technology	Paticipation
11		Aspia khatun K.S.Arun Sangeeth D.Charles Raphel	Paper Presentation Web designing E-Summit	JCT College of Engineering and Technology	Paticipation
12		Pintu George Shobia Thomas Sherin Mariam John	Debugger & Brainetiks	Sri Krishna college of Engineering and Technology	Paticipation

<b>Information Technology</b>					
1	2014-15	Balaji K	Games	Kongunadu Arts and Science College	First
2		Arsath S	Picomania	KG College of Arts and Science	Third
3		Arsath S	Gamming	KG College of Arts and Science	Second
4		Arsath S	Gamming	Ranganathar Engineering College	First
5		Nandhini R	Paper Presentation	Ranganathar Engineering College	First
6		Ranjith Prabhu K	Web Design	Hindustan College of Engineering	First
7		Keerthi Varman	Web Design	Hindustan College of Engineering and Technology	First
8		Ranjith Prabhu K	Web Design	Sasurie Academy of Engineering	First

9	2014-15	Raja M	Web Design	Sasurie Academy of Engineering	First
10		Tamilselvan C	Debugging	Sri Krishna College of Arts and Science	Second
11		Tamilselvan C	Code Debugging	Kalaivani College of Technology	Second
12		Tamilselvan C	SQL	Kalaivani College of Technology	First
13		Tamilselvan C	Quiz	Kalaivani College of Technology	Third
14		Subash S	Gamming	Kalaivani College of Technology	First
15		Subash S	Treasure Hunt	Kalaivani College of Technology	First
16		Manikandan S	Treasure Hunt	Kalaivani College of Technology	First
17		Rahul Aravindhana J	Treasure hunt	Kalaivani College of Technology	First
18		Saravanan A	Treasure Hunt	Kalaivani College of Technology	First

19		Tamilselvan C	Bug Hunt	Erode Builder Educational Trusts group of Institutions	First
20	2014-15	Subash S	Tech Connecto	Erode Builder Educational Trusts Group of Institutions	Second
21		Tamilselvan C	Paper Presentation	Erode Builder Educational Trusts Group of Institutions	Second
22		Parvathy D	Paper Presentation	RVS College of Engineering and Technology	Second
23		Vaideki	Paper Presentation	RVS College of Engineering and Technology	Second
24		Parvathy D	Marketing	RVS College of Engineering and Technology	Second
25		Vaideki	Marketing	RVS College of Engineering and Technology	Second
26		Sri Gowri	Marketing	RVS College of Engineering and Technology	second
27		Subash S	Hardware Assembling	Kathir College of Engineering	First
28		Ranjith Prabhu K	Web Cyrus	Sri Krishna College of Arts and Science	First

29		Brindha D	Best Students Award 2014	Coimbatore region for Engineering Students	Best award
30		Yuvarekhaa A	Best Students Award 2015	Coimbatore region for Engineering Students	Best award
31	2014-15	Srividhya P	Best Students Award 2016	Coimbatore region for Engineering Students	Best award
32		Rashini R	Best Students Award 2017	Coimbatore region for Engineering Students	Best award
<b>Electrical and Electronics Engineering</b>					
1	2013-14	Jagan Kumar.P	Group Dance	KGISL Institute of Technology	II Prize
2	2014-15	Jeeva Prakesh, Jeffery Joel, Anand, Mohankumar	Project Presentation	KGISL Institute of Technology	1st prize
3		Niyas, sayooj	Football Tournament	GCT Coimbatore	Winner
4	2015-16	Praveen, Jenita, Vignesh, Mithra, Shobana	Paper Presentation	Teja Sakthi College, Cbe	II Prize, Overall Championship

<b>Mechanical Engineering</b>					
1	2013-14	S.Madhavan	Project presentation	The Institution of Engineering and Technology	I-Prize
2	2015-16	Dinesh kumar, Selvaraj, Rajapandi, Manikandan.s, Balamurugan, Aswath	Cricket match Amma trophy	PCET	I-Prize
3		Jawahar	PPT	PPG	II- Prize
4	2015-16	Nair karthik	PPT	SKCET	II-prize
5		Nair karthik	QUIZ	SKCET	II-prize
6		E.Joel	Camicofonia	KCT	II-Prize
7		J.Fric carlo	Cad Modelling	JCT	I-Prize.
8		J.Fric carlo	PPT	PPGIT	II-Prize
9		J.Fric carlo	Technical quiz	JCT	III-Prize.

10		Maheshprabhu	Engine Assembly	MCET	III-Prize
11		Maheshprabhu	Standup comedy	KCT	II- Prize.
12		Christopaul	Drawing	KCT	II-Prize
13		Christopaul	Engine assembly	MCET	III-Prize

**TABLE 5.17: CO-CURRICULAR ACTIVITIES**

S.No.	Name of the student	Branch	Event name	Year	Event held at	Secured place
1	Veerapandi.R	Mechanical Engineering	Kabaddi	2014	KGISL Institute of Technology, Coimbatore	Runner
2	Rajkumar.P	Civil Engineering	Kabaddi	2014	KGISL Institute of Technology Coimbatore	Runner
3	Selvakumar	Mechanical Engineering	Kabaddi	2014	KGISL Institute of Technology Coimbatore	Runner
4	Roopak.T	ECE	Kabaddi	2014	KGISL Institute of Technology	Runner

5	Udhayakumar	Civil Engineering	Kabaddi	2014	KGISL Institute of Technology Coimbatore	Runner
6	Boopathy	Civil Engineering	Kabaddi	2014	KGISL Institute of Technology Coimbatore	Runner
7	Karthik.K	Mechanical Engineering	Kabaddi	2014	KGISL Institute of Technology Coimbatore	Runner
8	Balakarishnan.P	Mechanical Engineering	Kabaddi	2014	KGISL Institute of Technology Coimbatore	Runner
9	Sarathkumar	Civil Engineering	Kabaddi	2014	KGISL Institute of Technology Coimbatore	Runner
10	Sanjeevi	EEE	Table tennis	2013	CSI College Ooty	Runner
11	Suresh	EEE	Kabaddi	2013	Sree Sakthi Engineering College Coimbatore	Winner

**5.3.3 How does the institute seek and use data and feedback from its graduates and employers, to improve the performance and quality of the Institutional provisions?**

The Institution has a registered Alumni Association. The Graduation day and Alumni meet are ideal occasions to interact and elicit information from graduates on industry academic promotion. Formal and informal meetings help

to identify the usefulness of the value added programs offered and suggestions received on future industry requirement. Every year the institute organizes alumni meet. Through alumni meet the Institution seeks various data and useful feedback from the graduates to enrich the qualities of the Institution. The College collects exit level feedback from the graduates. The provisions for improving quality and performance are discussed by the advisory committee of the College and the necessary steps are taken.

The Institution is also empowered with placement cell, through which the performance of the students and the quality of the Institution is continuously monitored with the feedback received from the recruiters.

**5.3.4 How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazine, and other material? List the publications/materials brought out by the students during the previous four academic sessions.**

Every department has its own associations. This provides the opportunity to the students to design posters for different programs, design invitations and banners. The students are encouraged to participate in poster presentations and other activities. Also, they are involved in publishing research papers in both the national and international conferences and journals.

**5.3.5 Does the College have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.**

The College does not have an overall student council. However each department has an association and its office bearers organize the events of the association for the particular academic year. The association is normally guided by two faculty members as advisors. The office bearers are

- ✓ Chairman
- ✓ Secretary
- ✓ Joint Secretary
- ✓ Treasurer
- ✓ Executive members

### **Selection Procedure**

- ✓ Every year the selection is made by the concerned Heads of Department by consulting the Coordinators and Class Advisors based on the academic performance and involvement in co-curricular and extracurricular activities.

### **Activities**

- ✓ Conduct Guest Lectures, Workshops, Symposiums and Conferences.

### **Funding**

- ✓ Management, Students and Sponsors are the source of funding.

### **Class Committee**

Each class has a class committee to share their hurdles in the learning process. The committee members are selected by the Class Advisors and Heads of the departments. The College has a class committee council. The class committee members are selected from the representations from various departments. The committee thus formed acts as a bridge between the Institution and students. Apart from this, students are part of many committees functioning in the College.

### **5.3.6 Give details of various academic and administrative bodies that have student representatives on them.**

Our College provides various provisions for academic and administrative bodies and also has student representatives for the following criteria's:

The College strongly believes in giving opportunity to the students thereby supporting the authorities in various administration level of the College. There are student representatives in the following academic and administrative bodies of the organization.

- ✓ Class Committee
- ✓ Department Associations
- ✓ Alumni Association
- ✓ Indian Society for Technical Education – Student Chapter
- ✓ Indian Society of Mechanical Engineering
- ✓ Institution of Electronics and Tele communication Engineers,
- ✓ Computer Society of India
- ✓ Class Representative
- ✓ Mess Committee
- ✓ National Service Scheme
- ✓ Youth Red Cross
- ✓ Clubs – Fine arts club, ENVIRO Club
- ✓ Anti-Ragging Committee
- ✓ Sports committee

### **5.3.7 How does the Institution network and collaborate with the Alumni and former faculty of the Institution?**

The Institution has a healthy relationship with alumni and former faculty members for the betterment of the Institution as well as the students. They are contacted through social media like facebook, whatsapp and mobile phones. Alumni are invited periodically to the College to motivate the students. Every year Alumni meet is organized to network the alumni of PPGIT. Former faculty members are invited to the College to give guest lectures and to be as Juries for the symposiums and project reviews.

It gives useful feedbacks regarding scholastic and infrastructure advancement. The Institution has an information database of all the graduated students and previous staff of the organization.

Regular contact with them is kept up which empowers the Institution in the commercial ventures which are overseen by the graduated students. The different exercises in which the graduated student's relationship included are as per the following:

Connection with the graduated class is carried out through

- ✓ Conducting alumni gatherings
- ✓ Inviting for special addresses
- ✓ Inviting for placement awareness programs
- ✓ Inviting them to departmental activities
- ✓ Inviting them to give guest lectures

## **CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 INSTITUTIONAL VISION AND LEADERSHIP**

**6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the Institution's distinctive characteristics in terms of addressing the needs of the society, the student it sees to serve, Institution's traditions and value orientations, vision for the future , etc.,?**

#### **VISION**

PPG Institute of Technology, Coimbatore, is to be a centre of excellence in technical learning to compete globally and raising the economic standards of the nation.

#### **MISSION**

The PPGIT, Coimbatore strives

- ✓ To bestow eminent technical education to ignite students with an urge for research and development attitude, the aim to inculcate the habit of independent and innovative thinking.
- ✓ To make the students an asset to our nation and be a part of its pride and heritage. To uphold and promote the ethical values and principles of morality.
- ✓ To offer state-of-the-art undergraduate, postgraduate courses.
- ✓ To make policies and atmosphere to attract and retain best faculty.
- ✓ To create an ambience in which new ideas and cutting-edge research flourish through effective curriculum and infrastructure so as to produce the leaders and innovators of tomorrow.
- ✓ To produce ethically strong and morally elevated human resource to serve mankind.

- ✓ To undertake collaborative projects and consultancy for long term interaction with the academia and industry.
- ✓ To be among top ten engineering institutes of India by 2025.

### **6.1.2 What is the role of top management, Principal and Faculty in design and Implementation of its quality policy and plans?**

#### **Quality Policy:**

PPG Institute of Technology, Coimbatore, is to impart high quality technical education by practicing an efficient quality management system and strive continuously to improve the infrastructure facility and the competence of faculties.

The Management strives hard to achieve vision with help of the Principal, HoD's and Faculty members by providing the quality infrastructural facilities and allotting adequate funds to improve the quality of faculty, teaching / learning process and research. The Management interacts with the Principal regularly and discusses about quality plans and constructive steps to be taken in order to improve the quality standard and implementation of any new methods.

The Principal leads his team in preparing the quality policy of the Institution by interacting with the management, faculty and other stakeholders. He takes the steps to implement quality policies and plans through the consultation with eminent academicians, researchers, industrialists and professional bodies.

The Heads of the Departments take the responsibility of providing ambiance to the faculty to deliver their duties with dedication. They help the Principal in faculty selection and in up-grading the infrastructure. They also co-ordinate with the faculty, class advisors and tutors to provide academic support, counseling techniques, method of addressing grievances, monitor the programs and attendance of students and also communicate with stakeholders.

### **6.1.3 What is the involvement of the leadership in ensuring:**

- ✓ The policy statements and action plans for fulfillment of the stated mission.
- ✓ Formulation of action plans for all operations and incorporation of the same into the Institutional strategic plan
- ✓ Interaction with stakeholders.
- ✓ Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders.
- ✓ Reinforcing the culture of excellence.
- ✓ Champion organizational change.

The Management of the College has long term vision in academics and administration, which are formulated in vision and mission of the College. The Chairman has constituted the Governing Council for formulating and reviewing the steps taken to achieve the goals, and suggests any improvisation which he deems to carry-out.

The Principal has constituted an apex body of academic council constituting of heads of various departments to prepare action plans and to carry-out the planned steps. The Academic Council will periodically review various aspects of the functioning of the College and accommodate suggestions from the members. The Academic Council will oversee the development of Management System, Implementation of System and its continuous improvement.

#### **Stakeholders:**

On regular basis the Management and the Principal interacts with Stakeholders, through Staff Meetings, Class Committee Meetings, Students Council, Parent Teachers Meetings, Alumni Association Meetings and Employers Interaction.

### **Reinforcing Culture of Excellence:**

For all around development of the students, the culture of excellence is introduced through:

- ✓ An excellent teaching learning evaluation method to develop the basic knowledge of the engineering field.
- ✓ Formation of Professional Bodies student chapters to promote the linkage with the industries.
- ✓ Conducting several national level technical symposiums and competitions annually.
- ✓ Awards to students excelling in Academic Activities.
- ✓ Interacting with industries to provide vacation training, internship and industry oriented projects.
- ✓ Collaborating with industry and leading Institutions to arrange Guest Lectures and Seminars.
- ✓ Encouraging faculty members to involve in research activities through publication of papers, consultancies and projects.

### **Identifying needs and campaigning organizational developments:**

Vision, Mission and Quality Policy pave a way to identify the organizational development needs. And the development is pursued through suggestions from Governing Council, Academic Council, Stakeholders, Alumni, faculty members, and other review systems.

#### **6.1.4 What are the procedures adopted by the Institution to monitor and evaluate polices and plans of the Institution for effective implementation and improvement from time to time?**

Implementation, monitoring and evaluation for continuous improvement are done by the Principal through:

- ✓ Annual Governing Council Meetings.
- ✓ Regular Academic Council Meetings.

- ✓ Feed Back System.
- ✓ Evaluation System.
- ✓ Regular ISO Internal and Surveillance Auditing.
- ✓ Inputs from Exam Cell and Training & Placement Cell.
- ✓ Class committee meetings.

**6.1.5 Give details of Academic Leadership provided to the faculty by the top management?**

The culture of Leadership Development is promoted by the management by giving authority and responsibility to various committees to complete the desired task in time in the best possible manner.

**Table 6.1: LIST OF COMMITTEES AND CO-ORDINATORS**

<b>S. No</b>	<b>Name of the Committee</b>	<b>Faculty / Co-ordinator</b>
1	Academic Council	Dr. R Prakasam
2	Exam Cell	Prof. S Gopu
3	Placement & Training	Prof. P Sathyaseelan
4	Internal Quality Assurance Cell (IQAC)	Dr. R Prakasam
5	ISO Committee	Prof. V Saravanakumar
6	Career Guidance Cell	Dr. P P Joby
7	Fine Arts Club	Dr. V Bindhu
8	N.S.S	Mr. C Nandhakumar
9	Library Committee	Mrs. Latha
10	NAAC Committee	Prof. V Saravanakumar
11	Alumni Association	Dr. V Bindhu
12	Sports Committee	Mr. Manoharan

13	Women Empowerment Cell	Prof. Rajeswari
14	Student Council	Prof. S Devaneyan
15	Environment Cell	Prof. C Magesh
16	Research Committee	Prof. S Devaneyan
17	Industry Institute Partnership Cell	Prof. P Sathyaseelan

**6.1.6 How does the College groom leadership at various levels?**

- ✓ The culture of participative management is encouraged by the top management.
- ✓ The faculty of each department has a participating role at the Institution level and department level activities like teaching, learning, organizational functions and social welfare activities.
- ✓ Alumni participation is also encouraged.

**6.1.7 How does the College delegates authority and provide operational autonomy to the departments / units of the Institution and work towards decentralized governance system?**

The top management has given sufficient freedom to the Principal to fulfill the vision and mission of the Institution. The Principal provides operational autonomy to the departments in academic pursuit and decision making. Academic responsibilities are fairly divided among all the staff members. Regular staff meetings are conducted to give chance to each member to give their inputs.

**6.1.8 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.**

Yes, a de-centralized functioning mechanism, empowering the departments and individual faculty is existing in the College. A great level of

flexibility in academic administration helps the faculty in making decisions. Also, the management encourages the involvement of teaching and non-teaching staff members to suggest methods to improve the effectiveness and efficiency of Institutional process through open discussions.

## **6.2 STRATEGY DEVELOPMENT AND DEPLOYMENT**

### **6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?**

Yes, the Institution has formally stated Quality policy. It is stated as “We strive to impart high quality technical education by practicing an efficient quality management system and strive continuously to improve the infrastructure facility and the competence of faculties”.

The Institution has a quality policy conforming to its vision and mission. Systematic execution of the policy is carried through academic and administrative bodies. Evaluation and review of the systems is achieved through quality check systems like ISO 9001:2015 internal and external audits and feedback from stakeholders.

### **6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.**

Yes, Governing council has been framed by Chairman contains members from Management, Principal, Eminent Academicians and Senior professors to frame and review the new courses, additional intakes, infrastructural facilities buildings, labs, transport, academic performance and research promotion activities.

Regular Governing council meetings are held to keep on track the performance of the Institution and the details of the same are given below:

**TABLE 6.2: GOVERNING COUNCIL MEMBERS**

<b>S.No</b>	<b>Name</b>	<b>Designation</b>	<b>Level</b>
1	Dr.L.P.Thangavelu	Chairman	Management
2	Mrs.Shanthi Thangavelu	Correspondent	Management
3	Mr.T.Pitchandi	Rtd.IAS Officer	Member
4	Mr.T.Rajkumar	Executive Director, Sri Maha Sakthi Textiles	Member
5	Dr.Daniel Chandran	Professor, University of Technology, Australia	Member
6	Mr.D Nandha kumar	Entrepreneur	Member
7	Dr.V.M.Shanthi	AssociateProfessor, GCT, Coimbatore	Member
8	Dr. P. Narayanaswamy	Professor, Anna University, Chennai.	Member
9	Mr. J Balamurugan	Ex. CII President	Member
10	Mr. N. Subramaniam	Managing Director, Habasit Iakoka Pvt Ltd	Member
11	Mr. Durairaj	Advocate	Member
12	Dr.P. Kanagasabapathy	Director, Institute for Urban Studies.	Member

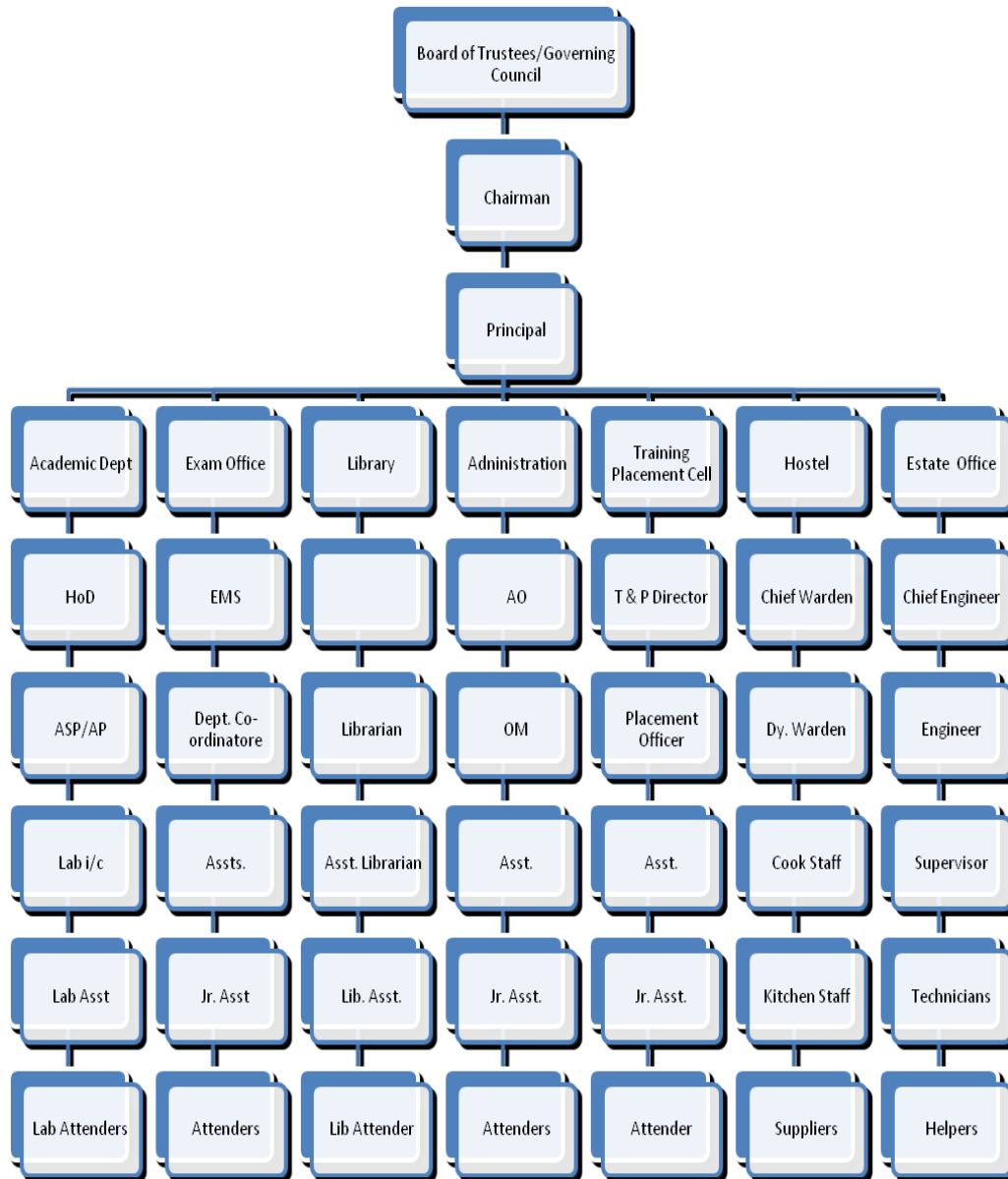
13	Regional Officer , SRO,AICTE	Regional Officer, SRO, AICTE	Ex-officio
	Commissioner of Technical Education	Commissioner of Technical Education	Ex-officio
14	Dr. N. Kuppuswamy	Principal, Maharaja Engg. College	Member
15	Mr. N. Visvanathan	Chief Executive Officer Ammarun Foundries.	Member
16	Mr. M. Palanivelu	Deputy Director, MSME Development Inst., Govt. of India	Member
17	Ms. Shabana	Head (HR), L & T Switch Gear Division.	Member
18	Mr. Jeyachandran	Vice President, Marudham Group.	Member
18	Dr. C Annadurai	Director,PPGBS	Member
19	Dr. R Prakasam	PPGIT Principal,	Member Secretary
20	Prof. Gopu S	Professor, Dept. of S&H., PPGIT	Member
21	Dr. Joby P P	HoD, Dept of CSE., PPGIT	Member

### **6.2.3 Describe the internal organizational structure and decision making process.**

The Institution is managed by PPG Educational Trust established by Dr.L.P.Thangavelu with a vision and mission of imparting quality technical

education to the deserving and meritorious students from the socially and economically weaker sections. The motto of PPGIT is “Empowering Total Technology.” The Institution believes that education is not the privilege of the few elite but the prerogative of the many educational aspirants.

The Chairman, correspondent and the governing council takes care of the execution and the process of academic and administrative phase of the Institution. The Principal and the Head of the Departments are responsible for the academic and administrative functioning of the departments. The Professors and Assistant professors take care of the academic aspects and activities related to co-curricular and extra-curricular aspects.



**6.2.4 Give a broad description of the quality improvement strategies of the Institution for each of the following.**

**Teaching and learning**

To have a best teaching and learning is the most important quality policy that has to be maintained by the Institution. In providing the best quality the recruitment of the faculty members are done through the properly designed selection procedure. The subjects are allocated in willingness of the staff in their respective fields. The lesson plan and the lecture notes are submitted by the faculties to the Head of the Department before the semester starts.

To have the correct assessment of the students faculties are maintaining their individual log book. A class log book is also maintained in the class advisor table which is to be entered by the respective faculty members after they complete the class. The log books are reviewed by the Head of the Department twice a month. Class notes of the students are monitored by the faculty members regularly.

The effectiveness of the teaching and learning are assessed through the unit tests which are conducted after the completion of each unit. The results are analyzed and the students are counseled and improvement tests like re-test, coaching classes are conducted. Besides this frequent seminar hours and guest lectures, access to NPTEL videos, class taken by multimedia presentations and value aided courses are provided for the enhancement of the student learning process.

**Research and Development**

A Research and Development cell in the Institution provides all the means and support to do their research work by the faculty members and students. More number of research works is being carried out by the faculty members and students by the fundings from MHRD and MNRE. Faculty members also act as the research guides. The research cell also organizes international conferences in

collaboration with the funding agencies. The cell has also organized seminars and workshops for the faculty members and students.

### **Community engagement**

Individual departments in the Institution are engaged in various social service activities such as donation to the orphanages and providing them their needs. And the following strategies are used by the management to encourage the community development activities:

- ✓ NSS Camp
- ✓ PPG Bus stop
- ✓ Blood donation camp
- ✓ Rally on Women Empowerment
- ✓ Medical camp
- ✓ Pasumai Marathon
- ✓ Swatch Bharath Marathon

### **Human Resource Management**

- ✓ An unambiguous method of recruitment policy based on AICTE norms are followed in recruiting highly efficient faculty members.
- ✓ Faculty members are encouraged to do their research work and to attend leadership training programmes.
- ✓ Various benefits such as Permission, Casual Leave, Vacation Leave, Medical Leave, and on duties are provided to the faculty members.
- ✓ Faculty members and students are provided with the medical concession in the Ashwin Hospital.

### **Industry Interaction**

To imbibe knowledge in practical areas the Institution has signed MoUs with various organizations and industries. Various Industrial visits and internship training are also provided for the students to enhance their skills.

Lists of companies providing internship training are as follows:

- ✓ HR CUBE Coimbatore.
- ✓ FLOCKS Web media Pvt Ltd, Chennai
- ✓ M/s MAX CADD Coimbatore
- ✓ SunRise Automation and Solutions Coimbatore.
- ✓ AA TEK Robo Pvt Ltd. Coimbatore.
- ✓ Xplore IT Corp Coimbatore.
- ✓ Thick Tek Coimbatore.
- ✓ Sandroid Automation Coimbatore.
- ✓ TeknoTurf Info Services Pvt Ltd.
- ✓ Ladder Logix, Coimbatore.
- ✓ HSS Bim Solutions Pvt Ltd Chennai.

**6.2.5 How does the Head of the Institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the Institution?**

The adequate information to the top management is provided by the Principal through the various means, to review the activities of the Institution. All information through circulars is accompanied by copies to the management. Important information is disbursed to stakeholders through institute annuals, bulk sms, circulars and display boards. The reviews are done with the following aspects:

- ✓ Students Feedback
- ✓ Parents- Teachers meetings
- ✓ Faculty meeting with Principal and Head of the Institution
- ✓ Frequent HoD meetings with Principal
- ✓ Class committee meeting
- ✓ Tutor ward meeting
- ✓ ISO 9001:2015 Audits

**6.2.6 How does the management encourage and support involvement of the staff in Improving the effectiveness and efficiency of the Institutional processes?**

The staff members are encouraged by the Institution by providing cash awards for the faculty members producing hundred percentage results. The faculty enrichment programmes such as Faculty Development Programme and the Stress relieving programmes are also conducted.

The Institution also organises faculty tour every year for staff members to have a better team building and having better bonding with the Institution that helps in promoting effectiveness and the efficiency of the Institution.

Faculty members are also encouraged and recognized for their research works. Provision for conducting various seminars and workshops are also encouraged by the Institution. NPTEL access and the e-learning methods also adopted for teachers to make them deliver their lectures effectively which upgrades the progress of the Institution.

**6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolution.**

The Institution along with the governing council has made resolutions and those were implemented with the help of the head of the Institution. The resolutions are as follows:

S.NO	Agenda Discussed	Discussions/ Suggestions	Action Taken
1	To train the students for the industry needs	Members advised to find new avenues to provide practical training for placement.	Our Institution has registered with some of the industries for inplant trainings and that would help the students to get into the core industries.

2	Placements in core companies	Industry representatives suggested that, discussion can be held with various industries to find the gap between industry and institute.	A curriculum was framed in discussion with the industries to provide training on automation and control.
3	Arrear free campus	Faculty and Management meeting was held to frame rules and suggestions to make all the students to clear their exams without any arrears	Students were counseled and they were given special coaching classes after their class hours and in the hostel also.
4	Research and Development cell	To encourage the research activities faculty members and management discussed and they suggested to bring a research and development cell	Research and Development cell has been established and the Institution has done many research works with the funding from various Government Organizations.

**6.2.8 Does the affiliating University make a provision for according the status of autonomy to an affiliated Institution? If ‘yes’ what are the efforts made by the Institution in obtaining autonomy?**

Yes, the affiliating University does have the provision for according the status of autonomy to an affiliated Institution. The Institution is working towards satisfying all the norms required for such a status proposed by UGC, AICTE and Anna University. The Institution has in place ISO 9001:2015 and is working towards NAAC. Best practices like varied value added programs offered and centralized examination procedure are few examples to support the claim for such a status.

**6.2.9 How does the Institution ensure that grievances/complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?**

The Institution has the better provisions for collecting grievances/complaints and they resolve it effectively. The Anti ragging, Grievance and Redressal Committee has been formulated that attends to grievances if any. A separate student counselor has appointed to attend to the student personal issues. Students can express their complaints at the time of

- ✓ Students Feedback
- ✓ Class committee meeting
- ✓ Grievance Box
- ✓ Tutor ward meeting
- ✓ Personal Discussion

**6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on there?**

NIL

**6.2.11 Does the Institution have a mechanism for analyzing student feedback on Institutional performance? If 'yes' what was the outcome and response of the Institution to such an effort?**

Yes, the students had given their grievances and the respective actions were taken. The following actions were taken

- ✓ Evening classes for analytical subjects
- ✓ More number of value added courses were conducted
- ✓ Revision in hostel food menu
- ✓ Industrial visits

## 6.3 FACULTY EMPOWERMENT STRATEGIES

### 6.3.1 What efforts are made by the College to enhance the professional development of teaching and non-teaching staff?

Institution constantly supports activities, which enable professional development of teaching and non-teaching staff by

- ✓ Financial assistance to attend faculty training programmes, seminars and workshops for personal skills progression and Institutional development.
- ✓ Organizing Orientation Programmes for new faculty members and regular refresher courses for existing faculty members.
- ✓ Providing on duty for higher studies.
- ✓ Providing incentives for publishing papers.
- ✓ Providing updated study materials including E-Journals to the faculty members through the central library.
  
- ✓ Encouraging participation of faculty members in Orientation Programmes, Refresher Courses, Seminars, Workshops and Conferences.

<b>Departments/ Activities</b>	<b>CIVIL</b>	<b>CSE &amp; IT</b>	<b>EEE</b>	<b>ECE</b>	<b>MECH</b>	<b>MCT</b>
<b>Workshop</b>	5	3	15	20	4	4
<b>Seminar</b>	2	7	3	2	2	6
<b>Conference</b>	2	11	16	19	2	7
<b>FDP</b>	19	7	16	24	2	7

**6.3.2 What are the strategies adopted by the Institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?**

There are well-defined strategies in our campus for faculty empowerment through training and motivation.

- ✓ Faculty development programmes are conducted at regular intervals.
- ✓ Orientation programme is organized for junior level faculty members.
- ✓ Institution promotes research attitude among faculty members.
- ✓ Senior Professors train the faculty members on effective maintenance of department file system.
- ✓ Awards and incentives for staff based on performance appraisal.

**6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal**

The Institution assesses its faculty through a well-structured appraisal system. The Staff Appraisal Form are taken annually and assessed for the academic growth of the faculty. It encompasses the following quality parameters:

- ✓ Qualification upgradation
- ✓ Semester wise Feedback from students
- ✓ Academic Performance
- ✓ Activities Organized and Participated
- ✓ Research Publications
- ✓ Funded Projects/Consultancy/ MoUs
- ✓ Professional/Academic Membership
- ✓ Service to the Department
- ✓ Extra-Curricular Activities

- ✓ Interaction with Industry and Instructions
- ✓ Involvement in Department and College level administration

The higher officials assess the performance of each faculty member and a consolidated performance report is submitted to the Management for appropriate action.

#### **6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?**

The outcomes of the performance appraisal system are discussed with the staff members. The Management reviews the faculty appraisal form and provides the following benefits for the deserving faculty members:

- ✓ Special Incentives
- ✓ Consideration for Promotion
- ✓ Encouragement for self-development programs

Major decisions taken such as awards, rewards and promotions by the Management for performance improvement are communicated in staff meetings, department meetings and class committee meetings. The Principal and the HoD of the respective department discuss the outcome of the performance evaluations with the faculty members concerned.

#### **6.3.5 What are the welfare schemes available for teaching and nonteaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?**

To create a serene academic atmosphere in the campus, several welfare schemes are announced by the Management. They are

**TABLE 6.3: WELFARE SCHEMES**

S.No	Welfare Schemes	% of staff have availed the benefit			
		2012-2013	2013-2014	2014-2015	2015-2016
1	Medical Leave	100	100	0	0
2	Maternity Leave	4.8	2.32	3.63	1.02
3	PF	50.96	34.1	56.36	52.04
4	Staff Club	100	100	100	100
5	Transportation	21.15	19.37	30	24.48
6	Gift	100	100	100	100
7	Free Medical Facility	100	100	100	100

Faculty members are benefited with remuneration who handle value added courses and special coaching classes. All the teaching and non-teaching members are covered under accidental insurance.

### **6.3.6 What are the measures taken by the College for attracting and retaining eminent faculty?**

The Management of our Institution always recognizes and retains the talented faculty members with the following attractive measures for better career prospectus.

- ✓ Attractive Pay Scale (As per sixth Pay commission) and incentives.

- ✓ Additional responsible roles in statutory and non-statutory bodies related to Governance and administration of the Institution.
- ✓ Awards and cash incentives for research publications and academic performance.

## **6.4 FINANCIAL MANAGEMENT AND RESOURCE MOBILIZATION**

### **6.4.1 What is the Institutional mechanism to monitor effective and efficient use of financial resources?**

Efficient finance management is taken care of by an exclusive finance section with duties executed through a fulltime auditor, Accounts Manager, Finance Manager and Finance Controller. Every transaction is supported by the vouchers. All the collections are deposited in the bank and all expenditure, recurring and non-recurring transactions, are incurred through cheques. The bill payments are passed after ensuring the receipt of goods in good condition. Only duly authorized persons can operate the transactions through the bank. For effective check on the accounts the two-tier system is followed, the internal and the external audits.

### **6.4.2 What are the Institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.**

Internal ISO Audit is done twice in a year. External Audit is conducted annually. There were no major audit objections in the last audit. The complete account of PPGIT is thoroughly audited by an auditor every year.

### **6.4.3 What are the major sources of Institutional receipts/ funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.**

Fee collection such as tuition fee, transportation fee and hostel fee are the major sources of income for the Institution. Besides, the Trust is funding for capital outflow like building and purchase of equipments, if required. (Rs. in Lakhs) the auditor statement is attached in the annexure.

**TABLE 6.4: INCOME AND EXPENDITURE OF INSTITUTION IN  
LAKHS**

<b>Year</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>
Income	11,99,77,740	12,06,56,881	11,15,23,806	9,61,52,080
Expenditure	15,50,60,631	13,48,88,177	14,68,97,516	11,50,89,417

**6.4.4 Give details on the efforts made by the Institution in securing additional funding and the utilization of the same (if any).**

The Institution encourages each department to generate funds for the following activities:

- ✓ To modernize existing laboratory for advance learners.
- ✓ To create a research environment by procuring research equipment and other facilities.
- ✓ To conduct national and international conferences for research collaboration.
- ✓ To organize technical events like workshops and seminars in association with private and government funding agencies.

**6.5 INTERNAL QUALITY ASSURANCE SYSTEM (IQAS)**

**6.5.1 Internal Quality Assurance Cell (IQAC)**

- a. **Has the Institution established an Internal Quality Assurance Cell (IQAC)? If “yes”, what is the Institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance process?**

Yes, The IQAC cell has been formed to audit the quality improvement process.

**TABLE 6.5: INTERNAL QUALITY ASSURANCE CELL**

<b>S.No</b>	<b>NAME</b>	<b>DESIGNATION</b>
1.	Dr.R.Prakasam	Chairman
2.	Prof.P.Sathyaseelan,Civil	Member
3.	Dr.P.P.Joby,CSE	Member
4.	Dr.V.Bindhu,ECE	Member
5.	Prof.V.Saravanakumar,EEE	Member
6.	Prof.D.Rajeswari,Mechanical	Member
7.	Prof.S.Devaneyan,Mechatronics	Member
8.	Prof.C.Magesh,S & H	Member
9.	Dr.Devasenathipathi,MBA	Member

The College is a ISO certified 9001-2015 organization.

**Quality Policy:**

To impart high quality technical education by practicing an efficient quality management system and strive continuously to improve the infrastructure facility and the competence of faculties.

**Objectives:**

- ✓ Customer satisfaction
- ✓ Centre of Excellence
- ✓ Active research Environment

**b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?**

All the decisions made during IQAC meeting and ISO Management Review Meeting is presented to the Principal. After review with the IQAC committee, the same have been implemented.

**c. Does IQAC have external members on its committee? If so, mention any significant contribution made by them.**

Surveillance Audit of ISO is conducted by external auditors once in a year. IQAC have internal members within the Institution and their contributions are mentioned in the IQAC meetings.

**d. How do students and alumni contribute to the effective functioning of the IQAC?**

Students contribute by having feedback system, parent-teacher meetings and class-committee meetings. Alumni of the College contribute through Alumni cell and through Placement and Training cell.

**e. How does the IQAC communicate and engage staff from different constituents of the Institution?**

Head of the Departments act as ISO Auditors. They carry out internal audit once in six months.

Review reports are presented to the Principal.

**6.5.2 Does the Institution have an integrated frame work for Quality assurance of the academic and administrative activities? If “yes” give details on the operationalization?**

Yes, a well-defined quality management system is implemented and continuously followed.

**6.5.3 Does the Institution provide training to its staff for effective implementation of the Quality assurance procedures? If “yes” give details enumerating its impact?**

Yes, regular discussions and meetings are conducted to the Staff members of all the departments regarding ISO 9001: 2015 certification.

**6.5.4 Does the Institution undertake Academic Audit or other external review of the academic provisions? If “yes”, how are the outcomes used to improve the Institutional activities?**

In addition to the ISO 9001:2015 inspection and IQAC, regular inspections are carried out by Anna University and AICTE. Comments obtained from these committees are used for improving the academic and infrastructure of the Institution.

**6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies / regulatory authorities?**

For continuous quality improvement of the Institution, the suggestions made by the external audit committee are fulfilled. Internal audits carried out at regular intervals to check the quality assurance help in maintaining high quality standards.

**6.5.6 What Institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

The teaching / learning process is improved by:

- ✓ Providing Question bank as per the syllabus
- ✓ Structured Lesson plan
- ✓ Use of proper teaching aids for effective lecture delivery

- ✓ Class committee meetings
- ✓ Parent-Teacher Interaction
- ✓ Result analysis after every internal assessment test and taking proper corrective actions. (retests, assignments)
- ✓ Student feedback.

**6.5.7 How does the Institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external Stake holders?**

The quality assurance policy, mechanisms are communicated to the Stakeholders through

- ✓ Vision Mission statement
- ✓ College Brochures
- ✓ News letters
- ✓ Notice Boards
- ✓ Information Circulars
- ✓ Institution Website
- ✓ Placement pamphlets
- ✓ Letter to Parents
- ✓ Alumni Meet
- ✓ Display at common places in the Institute.
- ✓ Library

## **CRITERION VII: INNOVATIONS AND BEST PRACTICES**

### **7.1 ENVIRONMENTAL CONSCIOUSNESS**

#### **7.1.1 Does the College conduct a Green Audit of its Campus?**

Yes. Our Management gives priority to Green Coverage. The campus is dotted with large variety of trees and the number is supposed to be the most concentrated in this area. Apart from the utility area the whole campus is covered with plants and trees

Some of the varieties are Arica palms, Bamboo, Coconut, Eachhan, Euclyptus, Jeeni press, Kaattuvelan, May flower, Mega kani, Neem, Padami, Picknomia, Ponavaran, Poovarasam, Pungan, Royal pamar, Tamarind, Yellow flower.

Our College has an Environmental Policy and hence carries out various steps to maintain the campus green. A GREEN CLUB is functioning effectively for the past two years under the guidance of a senior faculty member as an advisor. The active club members are our students and staff members. With the coordination of our College NSS team, the GREEN Club takes care of creating the pleasant environment in the College campus. The club does take eco-friendly steps like water harvesting, planting saplings, waste management and creating awareness among the students, faculty members, parents and public to maintain plastic free campus. With the help of gardeners and the support of NSS, the garden and lawns are always maintained green.

### **7.1.2 What are the initiatives taken by the College to make campus eco-friendly?**

#### **Energy conservation**

- ✓ Students and Faculty members are being informed through circulars, notifications and conducting awareness programmes about the importance of energy conservation.
- ✓ Lights and fans are switched off when not required.
- ✓ Classrooms are provided with large size windows so that natural light are sufficient instead of using the electric lights.
- ✓ Air conditioners are used only at essential places and that too if the situation warrants badly.
- ✓ The UPS Batteries are being maintained in good conditions which reduces the charging current of batteries.

#### **Use of Renewable energy**

Our College has Solar Photovoltaic Power Plant of capacity 300 KW consisting of 436 panels of each 230 watt with 7 Invertors to convert DC to AC electric power. The power derived from the plant is used to meet the energy requirements of the campus. There are number of Solar Photovoltaic Street lights functioning in our campus. Installation of another SPV 100Kw Solar Photovoltaic system is under process.



## Wind mill

Two wind mill of power 1 KW each has been installed in the institute to use the power for Library and other lighting load in tieup with TUV RHEINLAND pvt.ltd.



## Rain water harvesting

All the buildings are provided with Rain water harvesting facility and the rain water is allowed to percolate underground through the structures in order to maintain and improve the groundwater table. Due to this a considerable improvement in quality of the groundwater is observed in the campus. Apart from this, provisions are available to collect and store the rainwater in 1000 litres capacity containers, which is used for watering plants.



**RO Plant**

A RO Plant of capacity 1000 litres capacity is in operation to meet the water requirements of kitchen, mess and other facilities.

**Pasumai Marathon**

PPGIT organized Pasumai Marathon to impart awareness to students and public about the importance of maintaining nature and its trees.

**Efforts for carbon neutrality**

Following are the steps taken to reduce carbon emission in our College campus.

- ✓ Basically certain improvements are undertaken to reduce the usage of papers by using Biometric attendance system, sending circulars through emails, preparation of question papers through soft copies etc.
- ✓ The College has made arrangements for parking at the entrance itself in order to keep a pollution free campus and the buses used for transportation of students are BS III so that the carbon emission is checked to a greater extent.
- ✓ The College has taken up certain preventive measures to check the emission of carbon- di-oxide. The dead leaves are buried in the soil itself instead of burning in the open atmosphere. Waste materials are packed and disposed then and there.
- ✓ CRT Monitors have been replaced.

**Plantation**

To create awareness about Biodiversity and greenery, large areas of the College are covered with plantation (650 trees inside the campus). Tree plantations are organized with the help of NSS volunteers and GREEN Club members internally and externally in every semester.



## Hazardous waste management

No Hazardous waste is generated and the chemical waste is disposed properly.

## E-waste management

Management has been donating old computers and other usable electronic equipment's to various schools that are run under the management. In general electronic waste items are sold as scrap in every academic year.

The above mentioned practices ensure that our campus is eco-friendly and pollution free campus providing a good environment for effective teaching and learning process.

## 7.2 INNOVATIONS

### 7.2.1 Give details of Innovations introduced during the last four years which have created a Positive impact on the functioning of the College.

Our College has made several innovations which have helped for the effective and successful functioning of the College.

#### Innovation in academics:

- ✓ Continuous assessment and regular monitoring of the academic performance of the students.
- ✓ Periodic feedback from the students about the delivery system is used

by the HoD / Principal to improve the teaching methods.

- ✓ The parents are regularly informed about the performance and attendance of their wards (through CMS on daily basis) which makes the monitoring effective.
- ✓ Tutorial classes are conducted to enhance the problem solving skill of the weak and slow learners.
- ✓ NPTEL video lectures and guest lectures by the subject experts.
- ✓ A well-established library with large number of text books, reference books, good number of National and International Journals, e-journals, magazines and with internet facility is functioning.
- ✓ A group of 20 students is assigned to a faculty member who is his/her tutor. The tutor takes personal care on their wards.
- ✓ Evaluation of the teaching learning process is effectively conducted by the exam cell through centralized well designed examination system.

**Innovation in skill development:**

- ✓ Mini Projects and major Projects are introduced to promote the research attitude among the students.
- ✓ Value added courses like training on “automation and controls” by Siemens are conducted to enhance the employability skills of the students.
- ✓ Considerable percentage of students in all the Departments is made to carry out their project work in industries. Students are given opportunities to undergo in-plant training and internships and they may under take their projects in those industries.
- ✓ Industrial visits are arranged periodically by the Departments to give the students a practical knowledge and exposure to Industrial practices.
- ✓ Numbers of professional societies are functioning in the College to upgrade the knowledge of the faculty and the students.

- ✓ E-journals are subscribed in the library. The faculty members and students can access the journals to extend their research activities.

**Innovation to enhance quality:**

- ✓ Career guidance and Placement cell of the College are active, which has resulted in more number of Placements and better career orientation for students.
- ✓ During the first four semesters the students are trained in improving their communication skills.
- ✓ Aptitude and technical skill training are provided to the third year students.
- ✓ Final year students undergo training in soft skills enrichment, group discussion and mock interviews.
- ✓ Faculty members are recruited with excellent academic records from reputed Institutions. Faculty members joined with PG qualification are encouraged to pursue their PhD by providing all facilities.
- ✓ Faculty members participate in FDP's to improve their teaching skills.
- ✓ Students are motivated to participate and present papers in National and International conferences.



## **7.3 BEST PRACTICES**

### **BEST PRACTICE – I**

#### **Title of the Practice**

#### **CONTINUOUS ASSESSMENT AND MONITORING OF THE ACADEMIC PERFORMANCE**

#### **Goal**

Since the quality Policy of our Institution is the continual improvement of the educational and infrastructure, we strive to improve the academic performance of the Students. The academic performance of the students is assessed from the beginning of every semester by different techniques/methodologies and the academically weak students and slow learners are identified. The suitable strategic courses are to be planned to overcome the difficulties in achieving the good performance in their learning process.

#### **The Context**

Normally the students admitted to the first year B.E courses are from various parts of the country with different social and academic back ground. A section of the students admitted to the course, might have completed their secondary education in their mother tongue (Tamil/Malayalam) as a medium of instruction and hence they may find the course as difficult to adapt to the English as medium of instruction. They may find it difficult to read, understand and deliver what they have learned. Most of the students are from rural back ground and they may also from economically weaker sections. Generally these students are having lack of awareness regarding their goal and the methods to achieve it. The students falling in these categories generally are lacking in their self confidence level. Few students are having attitude problems like negative thinking, lethargic towards working etc.

#### **The Practice**

The continuous assessment and monitoring the system of teaching and

learning process helps the faculty members in recording the academic progress of each and every student. A multi-pronged strategy is required to address these problems. First of all, academically poor performing students are identified by a well-defined evaluation system, formulated by the examination cell through unit tests. To overcome the difficulties faced due to the medium of instruction, a well-planned and well spanned communication skill development program is provided with the help of external trainers in the first four semesters for all the students. A continual assessment and monitoring system is followed to solve problems like confidence level, awareness issues and attitude problems.

In practice, each faculty member is allotted with 15-20 students and is acting as Tutor for those students. Tutor act like a local guardian and interact very closely with the students with the parental approach. They try to understand the academic and personal problems of their ward. Since the students attending the classes regularly will help them to understand the subject, it is monitored on hourly basis by the tutor. Any discrepancies in this regard are addressed by counseling and involving the parents.

Tutor help them in their learning process by checking their class notes and recommending materials and books to be followed and also suggest methods in reading and understanding concepts of the subject. During unit tests, the tutor visits the examination hall and observes their approach and presentation. Tutor discusses the corrected answer sheets with their wards pointing out the areas to be improved and also suggests how to be prepared for examinations.

To help them, remedial measures like extra class, hourly test and assignments are provided and monitored. In addition, they are supplied with University question papers and question banks. Regular counseling and motivation by the tutor helps him solving attitude problems. Apart from this, motivation classes and counseling by a professional counselor are conducted.

### **Evidence of success**

The practice of continuous assessment and monitoring the academic performance of the students and other is followed by tutor ward system effectively. The evidence of success is observed through the following points.

- ✓ Considerable improvement in attendance percentage.
- ✓ Visible improvement in consecutive test results.
- ✓ Better approach and presentation by the students in exams.
- ✓ Better performance in University examination.
- ✓ Positive behavior of the students is visible through improved participation in various activities like organizing and participation in paper presentations, seminars, conferences, symposiums etc.

### **Problems Encountered and Resources Required**

Even though the continuous assessment and monitoring of students performance has been proved to be the best practices, the system has faced certain problems initially as like other practices.

- ✓ Initial resistance from the students to undergo such process due to lack of awareness.
- ✓ Finding time to carry out this activity in the regular academic schedule.
- ✓ Transportation problems for the faculty and day scholar students.

The above problems were overcome by the management by adopting various measures like counseling the students and making them understand the importance of process.

- ✓ After the class hours remedial classes are conducted.
- ✓ Providing free transport to faculty and day scholars who stay back after College working hours.

## **BEST PRACTICE – II**

### **Title of the practice:**

### **INSTITUTIONAL AUTOMATION SYSTEM (PALPAP ERP)**

#### **Goal**

To introduce automation in the administrative (student, staff and Library administrative system) and the academic activities of the College (class room delivery, syllabus completion etc).

- ✓ To reduce the paper works.
- ✓ To increase data integrity, validity and reliability.
- ✓ To assure system wide security and protection of confidential information.
- ✓ To support sophisticated data analyses for use in decision-making
- ✓ Organizing workshop, Conferences and symposiums keeps the student fraternity vibrant.
- ✓ The institute has signed MoU's with number of industries to improve the industry institute interaction.
- ✓ An effective tutor ward system and the presence of a professional counselor help the students in solving academic and personal problems.

#### **The context**

Our Institution is having around 190 teaching and non-teaching staff members and about 1300 students (both UG and PG). So, monitoring the attendance of the staff members and students are really a tedious job. Timely availability of academic related data to the faculty members and students is prime need of the Institution. Planning and monitoring of the delivery system is must for better learning process. Collecting the data about the internal assessment is necessary for analysis and formulating methods for improvement.

## **The Practice**

The Institutional automation system has been designated with the objective of storing and providing all the necessary information based on the requirements of the management, Principal, HoDs', class Advisors, Tutors, Students and Parents. A separate dedicated team of staff members are working for the automation related activities. The important features of the **Campus Management System** are

- **Student's personal data**

The student's profile such as Name, Name of the parents, Date of birth, Address, Photo etc., will be added during the admission.

- **Student's academic performance**

The course registered, the marks scored in the internal assessment tests and the end semester examination results are available.

- **Staff Management System**

- **Staff's personal profile**

The staff profile such as Name, Designation, Qualification, Date of birth, Address, photo etc., will be added during joining.

- **Staff work load details**

- ✓ The academic workload / timetable of all the staff members is available.
- ✓ Staff Leave particulars.
- ✓ Daily attendance of staff can be entered.
- ✓ Staff can enter their Timesheet – hour Wise topics (Class room delivery and syllabus completion details).
- ✓ This system can be accessed by the concerned staff member, Department Heads and Principal. Staff alteration (in case of Leave) has to be entered by the HoD.

- **Examination Management System**
  - ✓ Internal tests marks report.
  - ✓ Internal tests result analysis.
  - ✓ End semester examination results.
- **Library Management System**
  - ✓ Books, Magazines and Journals database.
  - ✓ Search for Books, Magazines and Journals.
  - ✓ Access to e-resources.
  - ✓ Book issue/return database.
  - ✓ Stock report.

**The following Reports can be generated**

- ✓ Faculty wise unit test mark.
- ✓ Subject wise unit test mark.
- ✓ Failure and Absentees statement.
- ✓ Reports to parents.
- ✓ Result analysis.
- ✓ Monthly attendance report.
- ✓ Cumulative attendance report for each student.
- ✓ Deviation report for faculty members.
- ✓ Reports for ISO documents like Lesson plan, Unit test marks etc.
- ✓ Master Time Table for each Department.

**Evidence of Success**

- ✓ All the academic and administrative process has become fast and accurate due to Institutional Automation system.
- ✓ By incorporating this automation system, the accurate data can be accessed by the stakeholders.

- ✓ The access levels are ensured by passwords protection. So appropriate confidentiality of information is maintained.
- ✓ The availability of history data about the students (batch wise) and the staff members is the benefit of the Campus management System.

**Problems Encountered and Resources Required**

- ✓ The Automation System is based on the server capacity. Hence the uploading of video based Lecture files is to be limited.
- ✓ The system is having all the academic records of the students. The other extension activities of the students such as sports. Seminar presented/organized etc. is in the queue for uploading.
- ✓ The system should have the provision to access to the previous academic year student details.
- ✓ The above problems were overcome by the management by adopting various measures like
- ✓ Hard disk of capacity 5TB is provided to accommodate the big data.
- ✓ A separate software development team staff members are working for the related activities.





## PPG First Alumni Event



## Entrepreneur Development Cell





# PPG



## INSTITUTE OF TECHNOLOGY

### ANNA UNIVERSITY RANK HOLDERS



**SREELAKSHMI T V**  
ECE  
25th Rank



**ABINAYA SINDHU S**  
ECE  
28th Rank



**AMALA T**  
EEE  
29th Rank



**JAYACHITHRA S**  
CSE  
33th Rank



**BHUVANESHWARI M**  
EEE  
35th Rank



**RAGAPRIYA C**  
EEE  
35th Rank



**HELLEN JUDY J**  
VLSI  
20th Rank



**RAMESH P**  
ME-ED  
13th Rank



**ANU M**  
VLSI  
36th Rank



**MOHANA PRIYA R**  
CSE  
37th Rank



**VEENA VIJAYAN**  
ECE  
39th Rank



**SREEDEVI R**  
ECE  
41th Rank



**NIVETHA R**  
MBA  
46th Rank



**MIDHUSHA S**  
EEE  
47th Rank



**GAYATHRI D**  
ME-CSE  
43rd Rank



**SHAMITHA KK**  
MBA  
39th Rank



**RAJASIMMAN N**  
MECH  
48th Rank



**SINEESH S**  
CSE  
49th Rank



**DIVYASHREE U S**  
CSE  
49th Rank



**PAVITHRAA V V**  
IT  
49th Rank



**LAVANYA M**  
IT  
49th Rank



**NANCY DAYANA Y**  
EEE  
49th Rank



**AKHILA AYPACHAN**  
ME-PED  
18th Rank

# **EVALUATIVE REPORT OF CIVIL ENGINEERING**

## Evaluative Report of Civil Engineering

1. Name of the department : CIVIL ENGINEERING

2. Year of Establishment : 2010

3. Name of Programmes / Course Offered:

Courses	Name of the Programme	Year of Establishment
B.E	Civil Engineering	2010

4. Names of Interdisciplinary courses and the departments / units Involved:

S.No	Interdisciplinary Course	Department Involved
1	Technical English – I	English
2	Mathematics – I	Mathematics
3	Engineering Physics – I	Physics
4	Engineering Chemistry – I	Chemistry
5	Technical English – II	English
6	Mathematics – II	Mathematics
7	Engineering Physics – II	Physics
8	Engineering Chemistry – II	Chemistry
9	Basic Electrical and Electronics Engineering	EEE
10	Transforms and Partial Differential Equation	Mathematics
11	Numerical Methods	Mathematics

**5. Annual / Semester/ Choice Based Credit System (programme wise):**

Name Of The Programme	Annual / Semester / Choice Based System
BE	Semester Based Credit System

**6. Participation of the department in the courses offered by other departments:**

S.No	Programme	Subject Name	Service To
1	BE	Basic Civil And Mechanical Engineering	EEE
2	BE	Engineering Practices Laboratory	CSE
3	BE	Engineering Practices Laboratory	EEE
4	BE	Engineering Practices Laboratory	IT
5	BE	Engineering Practices Laboratory	Mechanical

**7. Courses in collaboration with other universities, industries, foreign institutions etc:**

S.No	Name Of The Course	Collabrative University/Industries
1	STADD Pro, Revite Architecture	ELF Global Solutions Coimbatore
2	Auto CADD	Max CAAD Coimbatore
3	STADD Pro, Revite Architecture, 3D Studio Max.	Max CAAD Coimbatore

**8. Details of Courses / Programmes discontinued (if any) with reasons:**  
NIL

**9. Number of Teaching Posts (UG & PG)**

DESIGNATION	SANCTIONED	FILLED
Professor	3	1
Associate Professor	6	1
Assistant Professor	19	22

**10. Faculty Profile with name, qualification , designation , specialization (D.SC/D.Litt/PH.D/M.Phill etc.):**

S. No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Mr. P.Sathiaseelan	M.E., (Ph.D)	Professor & HoD	Structural Engineering	2.8	-
2	Mr. M.J.Gopinathan	Ph.D.	Associate Professor	Structural Engineering	4.0	-
3	Mr.P. Jagadeeswaran	M.E.,	Assistant Professor	Structural Engineering	4.0	-
4	Mr.B. Sakthi Navaneethan	M.E.,	Assistant Professor	Structural Engineering	4.0	-
5	Mr.T. Bala Murugesan	M.E.,	Assistant Professor	Structural Engineering	3.0	-
6	Mr.G.Udhaya Kumar	M.E.,	Assistant Professor	Structural Engineering	2.0	-
7	Mrs.C.Poongodi	M.E.,	Assistant Professor	Structural Engineering	3.9	-

8	Mrs. D.Gomathi	M.Tech.,	Assistant Professor	Integrated Water resource Management	1.0	-
9	Ms.M. Poonkodi	M.E.,	Assistant Professor	Construction Management	1.0	-
10	Ms.M.ShanmugaPriya	M.E.,	Assistant Professor	Structural Engineering	1.0	-
11	Mr. M.Mohamed Ashik	M.E.,	Assistant Professor	Infrastructure Engineering	1.0	-
12	Mr. K.M.Manoj	M.E.,	Assistant Professor	Environmental Engineering & Management	1.0	-
13	Mr. S.Selvakumar	M.E.,	Assistant Professor	Environmental Engineering & Management	6.0	-
14	Mr. R.Vimalan	M.E.,	Assistant Professor	Environmental Engineering & Management	1.0	-
15	Mr. B.Aravind	M.E.,	Assistant Professor	Construction Management	1.0	-
16	Mr.S. Prathapbabu	M.E.,	Assistant Professor	Geo technical Engineering	1.0	-
17	Mr. J.Suresh	M.E.,	Assistant Professor	Structural Engineering	0.4	-
18	Mr. K.G. Kaarthik	M.E.,	Assistant Professor	Infrastructure Engineering	0.4	-
19	Mr.M. Selva Raj	M.E.,	Assistant Professor	Construction Management	0.4	-
20	Ms.B. Janani Bala	M.E.,	Assistant Professor	Construction Management	1.0	-

21	Mr.S.Manikandan	M.E.,	Assistant Professor	Environmental Engineering & Management	1.0	-
22	Mr.S.Gokulakrishnan	M.E.,	Assistant Professor	Construction Management	1.0	-
23	Mr. K.Areef Mohammad	M.E.,	Assistant Professor	Structural Engineering	-	-
24	Mr. S.Arun Prasad	M.Tech.,	Assistant Professor	Integrated Water resource Management	-	-

**11. List of senior visiting faculty** : NIL

**12. Percentage of lectures delivered and practical classes handles (programme wise) by temporary faculty** : NIL

**13. Student – Teacher ratio (programme wise):**

Programme		Student – Teacher Ratio
UG	BE	15:1

**14. No. of academic support staff (technical) and administrative staff sanctioned and filled:**

No of support staff (technical) : 5  
 No. of administrative staff : 2

**15. Qualification of teaching faculty with D.SC./D.Litt/Ph.D/Mphil/PG:**

S.No	Qualification	Number Of Teaching Faculty
1	Ph.D	1
2	Pursuing Ph.D	1
3	PG	22

**16. No. of faculty with ongoing projects from:**

- a) National : NIL  
b) International : NIL

**17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc and total grants received:**

**18. Research Centre / facility recognized by the University : NIL**

**19. Publications:**

**a) Publication per faculty**

Faculty Name	Total Number Of Peer Reviewed Journals
Mr. P. Sathiaseelan	13
Mr.P.Gopinathan	6

Number of publications listed in International Database (For Eg: Web of science, scopus, Humanities International complete, Dare Database-International Social Directory, EBSCO host, etc.):

- Monographs : NIL  
Chapter in Book : NIL  
Books edited : NIL  
Books with ISBN/ISSN numbers : NIL  
With details of publishers : NIL  
Citation Index : NIL  
SNIP : NIL  
SJR : 0.17  
Impact Factor : 0.042  
H-index : 4

**20. Areas of consultancy and income generated** :NIL

S.No	Name of the Organization	Income Generated
1	M/s.Coromandal Engineering Company Ltd,Coimbatore	Good will basis
2	M/s Southern Railway	Good will basis
3	M/s Ramco Cements Ltd	1350
4	Divisional Engineer, National highways Coimbatore	Good will basis

**21. Faculty as members in**

✓	National committees	:NIL
✓	International Committees	:NIL
✓	Editorial Boards	:NIL

**22. Student projects:**

- a) Percentage of students who have done in-house projects including inter departmental / programme

Batch	Total Number Of Candidates	% In House Projects
2010-2014	63	100
2011-2015	67	100
2012-2016	69	100

- b) Percentage of students place for projects in organizations outside the institutions i.e. In research laboratories /Industry/other agencies

Batch	2008-2012	2009-2013	2010-2014	2011-2015	2012-2016
Percentage	NIL	NIL	NIL	NIL	NIL

### 23. Awards / Recognitions received by faculty members

S. No	Name Of The Faculty	Name Of The Award /Recognition	Issuing Authority	Year Of Receiving
1	Mr. P.Jagadeeswaran	Best Teacher Award	PPGIT	2014

### Student Awards:

S.No	Name of the Students	Name of the award	Issuing Authority	Year of Receiving
1	Vidyakar.S	BEST OUTGOING STUDENT	PPG IT	2014
2	Vivek. S	DEPARMENT TOPPER	PPG IT	2014
3	Dhanya.G	BEST OUTGOING STUDENT	PPG IT	2015
4	Sharmiladevi.S	DEPARMENT TOPPER	PPG IT	2015
5	Saroja.V.R	BEST OUTGOING STUDENT	PPG IT	2016
6	Saravanan.Y	DEPARMENT TOPPER	PPG IT	2016

**24. List of eminent academicians and scientist / visitors to the department.**

<b>S.No</b>	<b>Eminent academicians, Scientists and Visitors</b>	<b>From</b>
1	Mr.Sudhakar Deenadayalan	National water consultant
2	Dr.k.S.Subramanian	Professor & HOD, Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore.
3	Dr.M.P.Muthuraj	Associate Professor Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore.
4	Mr.Ravi chokkalingam	Head of quality department MNC company Dubai.
5	Mr.Thirumoorthi	Chief Engineer Rtd TWAD, Coimbatore
6	Mr.R.T.Ravichandran	Executive Engineer Pilloor water supply scheme/TWAD, Coimbatore
7	Mr.Ellango	Executive Engineer ,TWAD Coimbatore
8	Mr.Dharmaraj	Superintendent Engineer ,TWAD, Ramanathapuram District.
9	Dr.K.Rasappan	Professor Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore.
10	Dr.S.Arulseivan	Associate Professor, Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore.

11	Dr.M.Kaarthik	Assistant Professor , Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore.
12	Dr.E.B.Perumal pillai	Principal , RMK College of Engineering and Technology, Chennai.
13	Dr.R.Loganathan	Associate Professor, Department of Civil Engineering, EBET Group of Institutions, Erode
14	Dr.S.Rajasekaran	Professor, Department of Civil Engineering, PSG College of Technology, Coimbatore

**25. Seminars/Conferences /Workshops organized & source of funding:**

S No	Name of the seminars /conference/workshop	Date	Resource Person invited	Source of Funding
1	FDP on Reinforced concrete structures	20.08.15&21.08.15	Dr.M.P.Muthuraj	PPGIT
2	FDP on Earthquake resistant structures	15.12.15&16.12.15	Dr.K.S.Subramanian	PPGIT

**26. Student Profile Programme / Course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			* M	* F	
BE(2010-2014 Batch)	Anna University Single Window System	63	55	8	70
BE(2011-2015 Batch)		67	60	7	51
BE(2012-2016 Batch)		69	55	14	Pursuing

**27. Diversity of Students:**

Batch	% of students from the same state	% of students from other state	% of students from abroad
BE(2010-2014)	51	49	-
BE(2011-2015)	76	24	-

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

NIL

**29. Student progression**

Student progression	Against % enrolled			
	2014-2015	2013-2014	2012-2013	2011-2012
UG to PG	-	-	-	-
On/off campus selection	7	2	-	-
Entrepreneurship/ Self employment	-	1	-	-

**30. Details of Infrastructural Facilities:****a) Department Library**

No. of Books/Monographs	112
No. of journal	0
No. of project report	Needed

**b) Internet Facilities for staff and students**

✓ 40 Terminals with internet bandwidth of 14 Mbps

**c) Classroom with ICT facility**

✓ Well equipped, spacious and ventilated class rooms: 05Nos.  
 ✓ LCD projectors for multimedia presentation: 01 Nos.

**d) Laboratories**

<b>S No</b>	<b>Name of the laboratory</b>	<b>List of Major Equipments</b>	<b>Cost of the lab (Rs.)</b>
1	Strength of Materials Laboratory	UTM, Impact Testing Machine, Rockwell Hardness Machine, Deflection Test Apparatus, Torsion Testing Machine	7,59,135
2	Concrete and Highway Engineering laboratory	Compaction Factor Apparatus, Los Angeles Abrasion Apparatus, Table Vibrator, Ductility Testing Apparatus, Flexural Testing Flow Table Apparatus Machine	4,47,081
3	Soil Mechanics Laboratory	Direct Shear Apparatus, Proctor Compaction Apparatus Triaxial testing machine	5,40,556
4	Survey Laboratory	Total Station, Theodolites, Dumpy Level	4,06,760
5	Hydraulic Engineering Laboratory	Orifices, Turbines, Pumps	9,71,935
6	Environmental Engineering Laboratory	Turbidity Meter, pH meter, BOD, COD ,Digital Spectrophotometer	4,47,070

**31. Number of Students receiving financial assistance from College, University, government or other agencies:**  
**UG: B.E (CIVIL)**

S.No.	Year	Type of Scholarship			No of beneficiaries
		Private	Government	First Graduates	
1	2011-2012	3	23	29	55
2	2012-2013	1	52	59	112
3	2013-2014	1	96	95	192
4	2014-2015	5	112	116	233

**32. Details on student enrichment programmes (special lectures / workshops/ seminar) with external experts:**

S No	Name of the seminar / conference /workshops conducted	Year	Number of students benefited
1	Mr.Sudhakar Deenadayalan National water consultant presented seminar in the topic of “DESALINATION”	2014	240
2	Mr.Ravi chokkalingam Quality control engineer	2016	150

**33. Teaching methods adopted to improve student learning**

- ✓ Multimedia presentation along with blackboard teaching.
- ✓ Wi-Fi facility to access online learning resources.
- ✓ To enrich the practical knowledge, the students are taken to construction sites during building construction .
- ✓ Regular Industrial visits
- ✓ Seminar, guest lectures, workshop, technical symposium are organized to update the knowledge of the students.
- ✓ Motivate the students to participate in technical events like, paper presentation, project contest, workshops etc.
- ✓ Placement oriented soft skills training, online aptitude tests and group discussions.

- ✓ Value added Courses and mini projects beyond the curriculum.
- ✓ Counseling to the needy students through faculty counsellor.
- ✓ Additional resources such as NPTEL & SPOKEN TUTORIAL are used.
- ✓ Technical Seminars, Industrial visit and Guest Lectures are conducted.
- ✓ The tutorial hours are engaged with two/three faculty members.
- ✓ Topics beyond the syllabus is added in each subjects
- ✓ Advanced teaching aids are used for class room lecturers.

#### **34. Participation in Institutional Social Responsibility (ISR) and Extension activities**

NIL

#### **35. SWOC analysis of the department and Future plans**

##### **Strength**

- ✓ Well-equipped laboratories and spacious, ventilated class rooms.
- ✓ Qualified and dedicated faculty members with different area of specialization.
- ✓ Department library for immediate reference.
- ✓ Motivation to the students to participate in various curricular and extra circular activities.
- ✓ Field oriented training to the students other than the College placement training activities.
- ✓ Active department association to conduct special lectures, motivation programmes, symposiums, conferences, workshops and seminars.
- ✓ Value added courses to the students during semester holidays.
- ✓ Industrial visits to the students.
- ✓ Well Equipped Labs

**Weakness**

- ✓ Lack of Quality Publications in International Journals.
- ✓ Lack of consultancy and pattern registration.
- ✓ More admissions from rural area students
- ✓ Less placement opportunities compared to circuit branches.
- ✓ No industrial research collaboration.
- ✓ Less number of publications in journals.
- ✓ The standard of students admission needs to be improved.
- ✓ Lack of recognized supervisors to guide Ph.D. scholars in the College

**Opportunities**

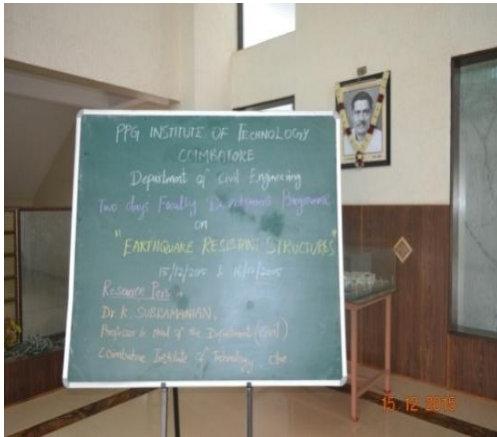
- ✓ To apply more funding proposal to the funding agencies.
- ✓ To make awareness and benefits of competitive exams.
- ✓ Faculty members to be encouraged to involve in research activities.
- ✓ To increase more number of placements.
- ✓ To encourage more number of students to become entrepreneurs.
- ✓ To produce more University ranks.
- ✓ Academic and industry collaboration.
- ✓ Focusing to form a research centre.
- ✓ Involvement in interdisciplinary research project.
- ✓ Training facilities to build their own research lab.

## **Challenges**

- ✓ To develop the rural students to the industrial needs and placed them in the core companies.
- ✓ To match the curriculum with the industry requirements.
- ✓ Recession in construction field.
- ✓ To develop the English and Hindi communication to the students.
- ✓ Preparing the students for competitive exams.
- ✓ Improving the communication skills of the students from rural areas with diverse backgrounds.
- ✓ To offer consultancy to the industries.
- ✓ Research collaboration with other departments

## **Future plans**

- ✓ To make our department as a R & D centre.
- ✓ To motivate the faculty to get more funding projects from various funding agencies.
- ✓ To encourage the faculty to publish more number of research papers in the referred journals (SCI, Scopus, SCI mago, impact factor journals)
- ✓ To plan to conduct workshop and conferences at National and International levels.











# **EVALUATIVE REPORT OF COMPUTER SCIENCE AND ENGINEERING**

## Evaluative Report of Computer Science and Engineering

1. Name of the department : Computer Science and Engineering

2. Year of Establishment : 2008

3. Name of Programmes / Course Offered:

Courses	Name of The Programme	Year of Establishment
B.E	Computer Science and Engineering	2008
M.E	Computer Science and Engineering	2012

4. Names of Interdisciplinary courses and the departments / units Involved:

S.No	Interdisciplinary Course	Department Involved
1	Technical English-I	S & H - English
2	Mathematics-I	S & H – Mathematics
3	Engineering Physics-I	S & H - Physics
4	Engineering Chemistry-I	S & H-Chemistry
5	Engineering Graphics	Mechanical
6	Physics & Chemistry Laboratory-I	S & H-Physics/Chemistry
7	Engineering Practices Laboratory(Group A)	Mechanical
8	Technical English-II	S & H-English
9	Engineering Chemistry-II	S & H-Chemistry
10	Mathematics-II	S & H-Mathematics
11	Engineering Physics-II	S & H-Physics

12	Physics & Chemistry Laboratory-II	S & H-Physics/Chemistry
13	Digital Principles and Systems Design	ECE
14	Digital Laboratory	ECE
15	Analog and Digital Communication	ECE
16	Microprocessor and Microcontroller	ECE
17	Microprocessor and Microcontroller Laboratory	ECE
18	Digital Signal Processing	ECE
19	Digital Signal Processing	ECE
20	Transforms and Partial Differential Equations	S & H - Mathematics
21	Environmental Science and Engineering	S & H - Chemistry
22	Probability and Queueing Theory	S & H - Mathematics
23	Discrete Mathematics	S & H - Mathematics
24	Communication and Soft Skills – Laboratory Based	S & H - English
25	Applied Probability and Statistics	S & H - Mathematics

**5. Annual / Semester/ Choice Based Credit System (programme wise):**

Name of the Programme	Annual / Semester / Choice Based System
BE	Semester Based Credit System
ME	Semester Based Credit System

**6. Participation of the department in the courses offered by other departments:**

S.No	Programme	Subject Name	Service To
1	B.E.	OOP and Data Structure	ECE
2	B.E.	OOP and Data Structure Lab	ECE

3	B.E.	Computer Programming Laboratory	EEE
4	B.E.	Object Oriented Programming	EEE
5	B.E.	Object Oriented Programming Lab	EEE
6	B.E.	Object Oriented Programming	MCT
7	B.E.	Object Oriented Programming Lab	MCT

**7. Courses in collaboration with other universities, industries, foreign institutions etc:**

S.No	Name of The Course	Collabrative University/Industries
1	Course on “Android”	ExploreIt
2	Course on “PHP and Mysql”	Tecknoturf
3	Course on “PHP and Mysql”	ExploreIt

**8. Details of Courses / Programmes discontinued (if any) with reasons: NIL**

**9. Number of Teaching Posts (UG & PG)**

DESIGNATION	SANCTIONED	FILLED
Professor	2	2
Associate Professor	3	0
Assistant Professor	18	22

**10. Faculty Profile with name , qualification , designation , specialization (D.SC/D.Litt/PH.D/M.Phill etc.):**

S.No	Name	Designation	Qualification	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr.P.P.Joby	Professor & HoD	M.Tech., Ph.D.,	Information and Communication Engineering	14.8	Nil
2	Dr. D.Sumathi	Professor	M.E., Ph.D.,	Information and Communication Engineering	16.4	Nil
3	Mrs. T.Poongodi	Assistant Professor	M.Tech., (Ph.D)	Information Technology	10.0	Nil
4	Mr. C.Nandhakumar	Assistant Professor	M.E.,	Software Engineering	9.5	Nil
5	Mrs.S. Mohanapriya	Assistant Professor	M.Tech.,	Information Technology	6.11	Nil
6	Mrs.U.Harini	Assistant Professor	M.Tech.,	Information Technology	5.10	Nil
7	Ms.C.Narmada	Assistant Professor	M.E.,	Computer Science and Engineering	5.3	Nil
8	Mr.M.Nizar Ahamed	Assistant Professor	M.Tech.,	Information Technology	5.1	Nil
9	Mrs.C. Timotta	Assistant Professor	M.E.,	Computer Science and Engineering	5.0	Nil
10	Mr.K.Karthik Kumar	Assistant Professor	M.Tech.,	Mainframe Technology	3.10	Nil
11	Mr.P. Arun Prasad	Assistant Professor	M.Tech.,	Information Technology	4.10	Nil
12	Mrs.S.R.Ramya	Assistant Professor	M.E.,	Computer Science and Engineering	4.8	Nil
13	Mr.P. Sivaprakash	Assistant Professor	M.Tech.,	Information Technology	6.9	Nil
14	Mr.M.Premkumar	Assistant Professor	M.E.,	Pervasive Computing Technology	4.10	Nil
15	Mr.D.Sridhar	Assistant Professor	M.Tech.,	Information Technology	3.0	Nil

16	Mr.C.Karthik	Assistant Professor	M.E.,	Computer Science and Engineering	2.11	Nil
17	Ms.V.Santhamani	Assistant Professor	M.E.,	Computer Science and Engineering	2.0	Nil
18	Mrs.U.Priya	Assistant Professor	M.E.,	Computer Science and Engineering	2.0	Nil
19	Ms.M.Jayashree	Assistant Professor	M.E.,	Software Engineering	2.0	Nil
20	Mr.S.Udhayakumar	Assistant Professor	M.E.,	Computer Science and Engineering	2.0	Nil
21	Mr.P.Thanmanam	Assistant Professor	M.Tech.,	Information Technology	2.0	Nil
22	Ms.B.Vidhyabanu	Assistant Professor	M.E.,	Computer Science and Engineering	1.4	Nil
23	Mr.P. Sathish Kumar	Assistant Professor	M.E.,	Computer Science and Engineering	1.4	Nil
24	Ms.P.Arun Priya	Assistant Professor	B.Tech, ME	Networking	2.4	Nil

**11. List of senior visiting faculty** : NIL

**12. Percentage of lectures delivered and practical classes handles (programme wise) by temporary faculty** : NIL

**13. Student – Teacher ratio (programme wise):**

Programme		Student – Teacher Ratio
UG	BE	15:1
PG	ME	12:1

**14. No. of academic support staff (technical) and administrative staff sanctioned and filled:**

No of support staff (technical) : 5  
No. of administrative staff : 2

**15. Qualification of teaching faculty with D.SC./D.Litt/Ph.D/Mphil/PG:**

S.No	Qualification	Number Of Teaching Faculty
1	Ph.D.	2
2	Pursuing Ph.D.	1
3	PG	21

**16. No. of faculty with ongoing projects from:**

c) National : NIL  
d) International : NIL

**17. Departmental projects funded by DST-FIST; UGC, DBT , ICSSR , etc and total grants received:** :NIL

**18. Research Centre / facility recognized by the University**

The Department has two Doctorates and yet to apply for research centre.

**19. Publications:**

**a) Publication per faculty**

Faculty Name	Total Number of Peer Reviewed Journals
Dr.P.P.Joby	6
Dr.D.Sumathi	6
Mr. C.Nandhakumar	3

Mrs. T.Poongodi	5
Mr. P.Sivaprakash	2
Mr. M.Premkumar	1
Mr.Nizar Ahamed	1
Mr.P.Sridhar	2
Mr. C.Karthik	1
Mr. Ashokkumar	1
Ms.V.Santhamani	1

**b) Publication per student**

<b>Student Name</b>	<b>Total Number Of Peer Reviewed Journals</b>
Minimol Mathew	2
Anisha Viswan	2
P.Ranjima	2
N.Sunil	1
N.Nandhini	1
P.Sreenath	1
Anuradha V.P	1
Gayathri.A	1
Santhamani.V	1
Abdul Jaleef	1

Number of publications listed in International Database (For Eg: Web of science, scopus, Humanities International complete, Dare Database- International Social Directory, EBSCO host, etc.): 5

Monographs : NIL  
Chapter in Book : 01  
Books edited : NIL  
Books with ISBN/ISSN numbers : NIL  
With details of publishers : NIL  
Citation Index : 02  
SNIP : 01  
SJR : 01  
Impact factor : 06  
H-index : 03

**20. Areas of consultancy and income generated** :NIL

**21. Faculty as members in**

- ✓ National committees :NIL
- ✓ International Committees : NIL
- ✓ Editorial Boards : 1

<b>NAME OF FACULTY</b>	<b>MEMBERSHIP / COMMITTEE</b>
Dr.D.Sumathi	Indian Society For Technical Education (ISTE)
Mr.P.Sivaprakash	Indian Society For Technical Education (ISTE)
Mr.M.Premkumar	Indian Society For Technical Education (ISTE)

**22. Student projects:**

a) **Percentage of students who have done in-house projects including inter departmental / programme**

<b>Batch</b>	<b>Total Number Of Candidates</b>	<b>% In House Projects</b>
2008-2012(UG)	61	100
2009-2013(UG)	34	60
2010-2014(UG)	69	70
2011-2015(UG)	52	100
2012-2016(UG)	51	86
2012-2014(PG)	16	94
2013-2015(PG)	15	100

b) Percentage of students place for projects in organizations outside the institutions i.e. In research laboratories /Industry/other agencies

<b>Batch</b>	2008-2012 (UG)	2009-2013 (UG)	2010-2014 (UG)	2011-2015 (UG)	2012-2014 (PG)	2013-2015 (PG)
<b>Percentage</b>	Nil	Nil	Nil	Nil	Nil	Nil

### 23. Awards / Recognitions received by faculty members

<b>S. No</b>	<b>Name of the Faculty</b>	<b>Name Of The Award /Recognition</b>	<b>Issuing Authority</b>	<b>Year Of Receiving</b>
1	Nandhakumar.C	Best Paper Award	Sri Eshwar College of Engineering	2015

### Student Awards:

<b>S.No</b>	<b>Name of the Students</b>	<b>Name of the award</b>	<b>Issuing Authority</b>	<b>Year of Receiving</b>
1	Jayachithra.S	University Rank Holder (Rank:33)	Anna University	2013
2	Divyasree.U.S	University Rank Holder (Rank:49)	Anna University	2014
3	Mohanapriya R	University Rank Holder (Rank:37)	Anna University	2015

#### 24. List of eminent academicians and scientist / visitors to the department

<b>S.No</b>	<b>Eminent academicians, Scientists and Visitors</b>	<b>From</b>
1	Mr.Sai Arjun	Team Lead, Accenture
2	Mr.Gowtham	Team Lead, Ugam Solutions
3	Mr.Viswanathan	CEO, Ammarun Foundaries
4	Mr.Sankar Raj	Prompt Infotech
5	Mr. Anantaraman Chandramouli	Discover N Achieve
6	Mr.Suresh Kumar	Global Vision
7	Mr.S.Chenniyappan	CTS
8	Mr. Sathish	Yellow Tree Academy
9	Mr.Kesavan	Study International Academy
10	Mr.Kannan	InGenius
11	Mr.Eswaran	4S Software Solutions
12	Mr.Gokul	IBM

**25. Seminars/Conferences /Workshops organized & source of funding:**

<b>S No</b>	<b>Name of the seminars /conference/workshop</b>	<b>Date</b>	<b>Resource Person invited</b>	<b>Source of Funding</b>
1	Multimedia	16/07/2012	Mr.Ramesh & Mr.Balasubramanian-CSC	PPGIT
2	Logistics	25/07/2012	Mr.Mahesh Babu - HeadStones Logistics	PPGIT
3	Maya Image	29/08/2012	Mr.Ismail & Mr.AnanthaKumar- Image	PPGIT
4	Cloud Computing	3/9/2012	Mr.R.Udhaya kumar - Universal IT	PPGIT
5	Software Testing	4/9/2012	Mr.GokulaKrishnan & Mr.Ganesh - MountZion	PPGIT
6	Career Awareness and .Net Technologies	31/01/2013	Mr.L.Saravanan & Mr.P.Mahesh - HCL Learning	PPGIT
7	Metrocity Awareness	9/7/2013	Ms.Priya- PR3 Systems	PPGIT
8	Open Source Technology	16/07/2013,17/07/2013 &	Mr.Kaliappan & Ms.Juliet Rani- Accent Technologies	PPGIT
9	Current Trends in IT Industry	20/07/2013	Mr.Nandhakumar- Purplepro Infotech	PPGIT
10	PHP	3/8/2013	Mr.K.Prabu- 4S Software Solutions	PPGIT
11	Essentials in PHP & MYSQL	28/01/2014	Mr.V.Ramalingam - OSRAD	PPGIT
12	A LOOK @ IT	30/01/2014	Mr.K.Prasad- NIIT	PPGIT
13	Microsoft- Current Trends in IT	19/07/2014	Mr.G.M.Sukumar - VADDTECH TRAINING	PPGIT

14	IEEE Transactions	23/07/2014	Mr.Eswaran- 4S Software Solutions	PPGIT
15	Cloud Computing	2/8/2014	Mr.Gokul-IBM	PPGIT
16	Recent Trends in IT	13/08/2014	Mr.S.Chenniappan- CTS	PPGIT
17	Current Trends in IT Industry	19/09/2014	Mr.Mohammed Syed Ibrahim- CTS	PPGIT
18	PHP & MYSQL	09/09/2014- 20/09/2014	Mr.Vinanth- Technoturf Solutions	PPGIT
19	Website Creation	9/1/2015	Mr.Suresh Kumar - Global Vision	PPGIT
20	Pervasive Computing	21/01/2015	Ms.Kavitha - Xplore IT	PPGIT
21	Animation 2D/3D	9/2/2015	Mr.Sathish - Yellow Tree Academy	PPGIT
22	Career Consulting	10/2/2015	Mr.Kesavan - Study International Academy	PPGIT
23	Current Trends in Web Designing	21/02/2015	Mr Kannan - IN-Genesis	PPGIT
24	Web Designing	6/3/2015	Ms.Rizwana - Xplore IT	PPGIT
25	PHP & MYSQL	09/02/2015 - 18/02/2015	Mr.Vinanth- Technoturf Solutions	PPGIT
26	National Level Symposium	13/03/2015	Mr. Selva Vinayagam Anvayin Systems	PPGIT

**26. Student Profile Programme / Course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			M	F	
B.E.(2008-2012)	Anna University Single Window System	61	38	23	82
B.E.(2009-2013)		34	20	14	73.5
B.E.(2010-2014)		69	33	36	66.7
B.E.(2011-2015)		51	29	22	74.5
B.E.(2012-2016)		51	22	29	-
B.E.(2013-2017)		25	14	11	-
B.E.(2014-2018)		25	20	5	-
B.E.(2015-2019)		16	11	5	87.5
M.E.(2013-2015)		15	7	8	87
M.E.(2014-2016)		14	11	3	-
M.E.(2015-2017)		7	4	3	-

**27. Diversity of Students:**

Batch	% of students from the same state	% of students from other state	% of students from abroad
B.E.(2008-2012)	23	77	-
B.E.(2009-2013)	32	68	-

B.E.(2010-2014)	17	83	-
B.E.(2011-2015)	14	86	-
B.E.(2012-2016)	18	82	-
B.E.(2013-2017)	18	28	-
B.E.(2014-2018)	5	80	-
B.E.(2015-2019)	81	19	-
M.E.(2013-2015)	47	53	-
M.E.(2014-2016)	57	43	-
M.E.(2015-2017)	57	43	-

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

Year	Name of competitive examination	No. of Students Appeared	No. of students cleared
2011-12	GATE	0	0
2011-12	TANCET	10	10
2012-13	TANCET	2	2
2013-14	GATE	0	0
2013-14	TANCET	8	8

**29. Student progression**

Student progression	Against % enrolled			
	2014-2015	2013-2014	2012-2013	2011-2012
UG to PG	2	6	2	1
On/off campus	28	63	41	14
Entrepreneurship/	-	-	-	-

### 30. Details of Infrastructural Facilities:

#### a) Department Library

No. of Books/Monographs	262
No. of journal	0
No. of project report	63

#### b) Internet Facilities for staff and students

- ✓ 120 terminals with internet bandwidth of 14 Mbps
- ✓ Wi-Fi enabled campus

#### c) Classroom with ICT facility : NIL

#### d) Laboratories

S.No	NAME OF THE LABORATORY	COST OF THE LAB (RUPEES)
1	Computer Laboratory-I	Rs.22,35,174
2	Computer Laboratory-II	Rs.24,50,380
3	Computer Laboratory-III	Rs.24,31,900
4	Computer Lab IV(Lang lab)	Rs.10,71,744

### 31. Number of Students receiving financial assistance from College, University, government or other agencies:

#### UG: B.E (CSE)

S.No.	Batch	Type of Scholarship			No of beneficiaries
		Private	Government	First Graduates	
1	2011-2012	0	55	60	115
2	2012-2013	1	68	83	152
3	2013-2014	4	69	79	152
4	2014-2015	12	39	49	100

**PG: M.E. Computer Science and Engineering**

S.No.	Batch	Type of Scholarship		No of beneficiaries
		Private	Government	
1	2013-2014	-	1	1

**32. Details on student enrichment programmes (special lectures / workshops/ seminar) with external experts:**

S No	Name of the seminar / conference /workshops conducted	Year	Number of students benefited
1	Seminar on “Aligning knowledge management with Business strategy”	16-07-2010	85
2	Guest Lecturer on ”Cloud Computing”	26-08-2010	85
3	Seminar on “Robotics”	8-9-2010	85
4	Seminar on “ Roles of youth”	27-09-2010	85
5	Guest Lecturer on “ Dot.Net”	11-2-2011	48
6	Guest Lecturer on “Advanced Networking & Recent IT Trends	22-12-2011	195
7	Seminar on “Multimedia”	16-07-2012	180
8	Seminar on “Maya Image”	29-08-2012	180
9	Seminar on “ Software Testing”	4-9-2012	180
10	Workshop on “multimedia Competition”	7-9-2012	150
11	Seminar on “Career Awareness & .Net Technology”	31-01-2013	175
12	Seminar on “ open source Technology”	16-7-2013	175
13	Seminar on “Current Trends in IT Industry”	20-07-2013	175
14	Seminar on “ PHP”	3-8-2013	165
15	Guest Lecturer on “ Essentials in PHP & MYSQL”	28-01-2014	148
16	Guest Lecturer on “A Look @ IT”	30-01-2014	110
17	Seminar on “IEEE Transactions”	23-07-2014	115
18	Seminar on “ Cloud Computing”	2-08-2014	63
19	Guest Lecturer on “Website Creation”	9-01-2015	50
20	Seminar on “Pervasive Computing”	21-01-2015	50
21	Seminar on “Current Trends in Web	21-02-2015	48

	Designing”		
22	Guest Lecturer on “Web designing”	6-03-2015	100
23	Workshop on “ Dynamic Webpage Creation using Wordpress Tool”	6-02-2016	90
24	Guest Lecturer on “Achieving Career goal”	20-02-2016	78
25	Seminar on “Network Security & Ethical Hacking”	11-03-2016	60
26	Seminar on “Corporate Profile”	28-3-2016	125

### 33. Teaching methods adopted to improve student learning

- ✓ Unit test
- ✓ Special coaching from 5 PM to 6 PM for Day scholars
- ✓ Evening coaching from 6 PM to 8 PM for hostel students
- ✓ Tutorial hour conducted for problematic papers
- ✓ Re-test for failure students and absentees
- ✓ Arranged seminars, value added courses
- ✓ Assignment

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

S.No	Type of activities	No of Students Participated
1	NSS camp	15
2	Tree Plantation(Green Club)	-
3	Renewable Energy Resources Programme	-
4	Blood Donation camp	16

### **35. SWOC analysis of the department and Future plans**

#### **Strength**

- ✓ Well Equipped Labs
- ✓ Expertise faculty members
- ✓ Good academic performance
- ✓ Industrial research collaboration
- ✓ Motivating students of participating in various events in other Colleges

#### **Weakness**

- ✓ Lack of recognized supervisors to guide Ph.D. scholars in the College
- ✓ Students admission needs to be improved
- ✓ Less number of publications in journals

#### **Opportunities**

- ✓ Academic and industry collaboration
- ✓ Involvement in interdisciplinary research project
- ✓ Construction of research laboratories
- ✓ Research centre in forthcoming academic

#### **Challenges**

- ✓ Communication skill development for the students
- ✓ Placement for all students
- ✓ Inter department research collaboration.

### **Future plans**

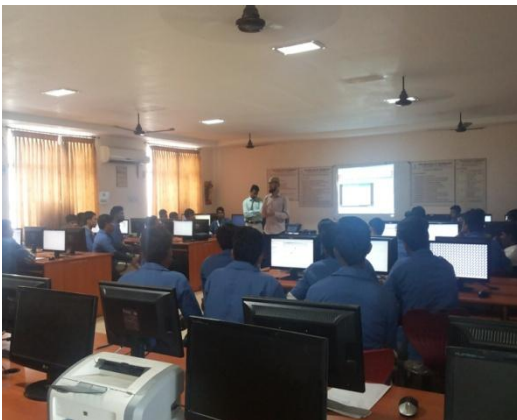
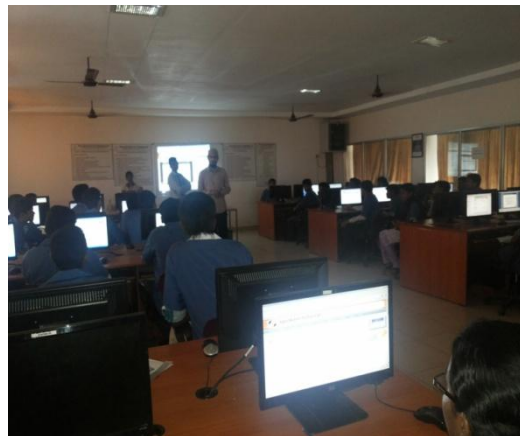
- ✓ Formation of R & D centre
- ✓ Approaching funding agencies for projects
- ✓ Motivating faculty members to publish papers in referred journals
- ✓ Plan to conduct national and international conferences







## Training Program from IIT – Mumbai



**EVALUATIVE REPORT OF  
ELECTRICAL AND  
ELECTRONICS ENGINEERING**

## Evaluative Report of Electrical and Electronics Engineering

1. Name of the department : ELECTRICAL AND ELECTRONICS  
ENGINEERING

2. Year of Establishment : 2008

3. Name of Programmes / Course Offered:

Courses	Name Of The Programme	Year Of Establishment
B.E	Electrical And Electronics Engineering	2008
M.E	Power Electronics and Drives	2013

4. Names of Interdisciplinary courses and the departments / units Involved:

S.No	Interdisciplinary Course	Department Involved
1	Technical English-I	S & H-English
2	Mathematics-I	S & H-Mathematics
3	Engineering Physics-I	S & H-Physics
4	Engineering Chemistry-I	S & H-Chemistry
5	Engineering Graphics	Mechanical
6	Computer Programming	CSE
7	Physics & Chemistry Laboratory-I	S & H-Physics/Chemistry
8	Engineering Practices Laboratory(Group A)	Mechanical
9	Computer Practices Laboratory	CSE
10	Technical English-II	S & H-English
11	Engineering Chemistry-II	S & H-Chemistry
12	Mathematics-II	S & H-Mathematics
13	Engineering Physics-II	S & H-Physics
14	Basic Civil and Mechanical Engineering	Mechanical
15	Computer Practices Laboratory	CSE
16	Physics & Chemistry Laboratory-II	S & H-Physics/Chemistry
17	Transforms and Partial Differential Equations	S & H-Mathematics

18	Environmental Science and Engineering	S & H-Chemistry
19	Numerical Methods	S & H-Mathematics
20	Object Oriented Programming	CSE
21	Object Oriented Programming Laboratory	CSE
22	Communication Skill Lab	S & H-English
23	Operating Systems	CSE
24	Applied Mathematics for Electrical Engineers	S & H-Mathematics

**5. Annual / Semester/ Choice Based Credit System (programme wise):**

Name Of The Programme	Annual / Semester / Choice Based System
BE	Semester Based Credit System
ME	Semester Based Credit System

**6. Participation of the department in the courses offered by other departments:**

S.No	Programme	Subject Name	Service To
1	B.E.	Engineering Practices Laboratory(Group B)	Mechanical,CSE, ECE, CIVIL
2	B.E.	Electrical Engineering and Control Systems Lab	ECE
3	B.E.	Basic Electrical and Electronics Engineering	Mechanical, CIVIL
4	B.E.	Electrical Drives and Control	Mechanical
5	B.E.	Power Plant Engineering	Mechanical
6	B.E.	Electrical Machines and Drives Laboratory	Mechatronics

**7. Courses in collaboration with other universities, industries, foreign institutions etc:**

S.No	Name Of The Course	Collabrative University/Industries
1	Soft Skills	Fraghren Academy
2	Embedded Systems	Everonn, Coimbatore
3	PLC and SCADA	Axis Global Automation, Coimbatore
4	In-Plant Training	Roots Industries India Ltd., Coimbatore
5	Windmills and Training centre	TUV – Rheinland, Germany
6	PLC and SCADA	Genn Automation,
7	PLC and SCADA	Sun rise Automation, Coimbatore
8	Aurdino and Micro Controller	EFY, Coimbatore

**8. Details of Courses / Programmes discontinued (if any) with reasons: NIL**

**9. Number of Teaching Posts (UG & PG)**

DESIGNATION	SANCTIONED	FILLED
Professor	3	0
Associate Professor	5	1
Assistant Professor	19	15

**10 .Faculty Profile with name , qualification , designation , specialization (D.SC/D.Litt/PH.D/M.Phill etc.):**

S. No	Name	Qualificat ion	Designati on	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Mr.V.Saravanakumar	M.E, (Ph D)	Associate Professor	Power Electronics & Drives	8.0	-
2	Mrs.I.Rajarajeswari	M.E. (Ph D)	Assistant Professor	Power Electronics & Drives	8.0	-

3	Mr.C.Karuppanasamy	M.E. (Ph D)	Assistant Professor	Embedded Systems Technologies	5.4	-
4	Mr.P. Yuvaraj	M.E.	Assistant Professor	Power Electronics & Drives	5.0	-
5	Mr.J.Arokiapraveenraj	M.E.	Assistant Professor	Power Electronics & Drives	5.0	-
6	Mr.C.L.Chinnadurrai	M.E. (Ph D)	Assistant Professor	Power Systems engineering	4.0	-
7	Mr.J.Kandasamy	M.E.	Assistant Professor	Control and Instrumentation	4.0	-
8	Mr.K.Sambath Kumar	M.E.	Assistant Professor	Power Electronics & Drives	5.0	-
9	Mrs.M.Bhuvaneswari	M.E.	Assistant Professor	Applied Electronics	2.0	-
10	Mr.T.Arul Prakash	M.E.	Assistant Professor	Power Systems	2.6	-
11	Mr.P.Kavinshankar	M.E.	Assistant Professor	Power Electronics & Drives	-	-
12	Mr.T.Paavendhan	M.E.	Assistant Professor	Power Systems	-	-
13	Mr.S.Vadhiraja	M.E.	Assistant Professor	Power Electronics & Drives	1.0	-
14	Mrs.R.Sathyarekha	M.E.	Assistant Professor	Power Electronics & Drives	7.0	-
15	Mr.M.Karthikeyan	M.E.	Assistant Professor	Electrical Drives and Embedded Control	4.0	-
16	Mr.M.L.Ragunathan	M.E.	Assistant Professor	Control and Instrumentation	2.0	-

**11. List of senior visiting faculty** : NIL

**12. Percentage of lectures delivered and practical classes handles (programme wise) by temporary faculty** : NIL

**13. Student – Teacher ratio (programme wise):**

Programme		Student – Teacher Ratio
UG	BE	15:1
PG	ME	14:1

**14. No. of academic support staff (technical) and administrative staff sanctioned and filled:**

No of support staff (technical) : 4  
No. of administrative staff : 2

**15. Qualification of teaching faculty with D.SC./D.Litt/Ph.D/Mphil/PG:**

S.No	Qualification	Number Of Teaching Faculty
1	Ph.D	0
2	Pursuing Ph.D	4
3	PG	12

**16. No. of faculty with ongoing projects from:**

a) National : NIL  
b) International : NIL

**17. Departmental projects funded by DST-FIST; UGC, DBT , ICSSR , etc and total grants received:** :NIL

**18. Research Centre / facility recognized by the University** : NIL

**19. Publications:**

**a) Publication per faculty**

<b>Faculty Name</b>	<b>Total Number Of Peer Reviewed Journals</b>
Mr V.Saravanakumar	2
Mrs I Raja rajeswari	4
Mr P Yuvaraj	3
Mr.CL.Chinnadurrai	1
Ms.M.Bhuvaneswari	1

**b) Publication per student**

<b>Student Name</b>	<b>Total Number Of Peer Reviewed Journals</b>
Mrs.Nandhini	1
S.Naveenkumar	1
Akhila Aypachan	1
G.Udhaya Bharathi	1
R.Rahul Kumar	1
K.Vinay	1
A.Arun Kumar	1
Jinu jose	1
S.Anjugam	1

Number of publications listed in International Database (For Eg: Web of science, scopus, Humanities International complete, Dare Database- International Social Directory, EBSCO host, etc.):

Monographs	: NIL
Chapter in Book	: NIL
Books edited	: NIL
Books with ISBN/ISSN numbers	: NIL
With details of publishers	: NIL
Citation Index	: NIL
SNIP	: NIL
SJR	: NIL
Impact factor	: NIL
H-index	: NIL

**20. Areas of consultancy and income generated** : NIL

**21. Faculty as members in**

✓ National committees	: NIL
✓ International Committees	: NIL
✓ Editorial Boards	: NIL

NAME OF FACULTY	MEMBERSHIP / COMMITTEE
I.Rajarajeswari	Indian Society For Technical Education (ISTE)

## 22. Student projects:

a) Percentage of students who have done in-house projects including inter departmental / programme

Batch	Total Number Of Candidates	% In House Projects
2008-2012	64	87.5
2009-2013	53	92.30
2010-2014	69	82.3
2011-2015	61	86.6
2012-2016	52	61.5

b) Percentage of students placed for projects in organizations outside the institutions i.e. In research laboratories /Industry/other agencies

Batch	2008-2012	2009-2013	2010-2014	2011-2015	2012-2016
Percentage	12.5	7.7	13.4	13.4	38.5

## 23. Awards / Recognitions received by faculty members

S. No	Name Of The Faculty	Name Of The Award /Recognition	Issuing Authority	Year Of Receiving
1	Mr V Saravanakumar	Outstanding Performance Award	PPGIT	2014

### Student Awards:

S.No	Name of the Students	Name of the award	Issuing Authority	Year of Receiving
------	----------------------	-------------------	-------------------	-------------------

1	Shyam Viswanathan	Best out going student	PPG trust	2012
2	M.Bhuvaneswari	University Rank -35	Anna University	2013
3	S.Midhusa	University Rank - 47	Anna University	2013
4	C.Ragapriya	University Rank – 35	Anna University	2013
5	K.Deepak karthi	Best out going student	PPG trust	2014
6	Y.Nancy Dayana	University Rank- 49	Anna University	2015
7	T.Amala	University Rank -29	Anna University	2015

#### 24. List of eminent academicians and scientist / visitors to the department

S.No	Eminent academicians, Scientists and Visitors	From
1	Prof. V. Chandrsekaran Professor	Sri Krishna College of Engineering and Technology, Coimbatore
2	Mr. A. Thangavelu Chief Engineer	TNEB
3	Dr.S.N.Sivanandam Emeritus & Professor	Karpagam Institute of Technology , Coimbatore
4	Dr.Radhakant padhi Associate Professor	Indian Institute of Science, Bangaluru, India
5	Dr.Paulraj Murugesha Pandiyan Associate Professor	University Malaysia Perlis, Malaysia
6	Dr.Albert Alexander Assistant Professor (Senior Grade)	Kongu Engineering College, Perundurai
7	Dr. R. Vijayabhasker	Anna University Regional centre,

	Assistant Professor	Coimbatore
8	Dr.VasanthaRathna,Professor & Head	Coimbatore Institute of Technology,Coimbatore
9	Dr.Chitra	Executive Engineer (Retd), TNEB

**25. Seminars/Conferences /Workshops organized & source of funding:**

<b>S.NO</b>	<b>Name of the seminars /conference/workshop</b>	<b>Date</b>	<b>Resource Person invited</b>	<b>Source of Funding</b>
1	International Conference on Computing Techniques , Embedded Systems and Drives	7-9 <sup>th</sup> Mar - 2013	Dr.S.N.Sivanandam Dr.Radhakant padhi Dr.Paulraj Murugesha Pandiyan	PPGIT
2	National Level Technical Symposium (PRAVAAH-16)	2016	Mr.Visvanathan CEO Ammarun Foundries, Coimbatore	PPGIT
3	Faculty development Programme on Application of MATLAB and Publication using LateX in Research	29 & 30- Dec-2015	Dr.S.Albert Alexander, Associate professor, Kongu Engineering College	PPGIT

**26. Student Profile Programme / Course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			M	F	
B.E.(2008-2012)	Anna University Single Window System	64	57	9	64
B.E.(2009-2013)		55	47	8	65.4
B.E.(2010-2014)		70	56	14	58.5
B.E.(2011-2015)		60	48	12	46.6
B.E.(2012-2016)		52	43	9	-
B.E.(2013-2017)		28	18	10	-
B.E.(2014-2018)		12	10	2	-
B.E.(2015-2019)		17	15	2	-
M.E.(2013-2015)		11	7	4	63.6
M.E.(2014-2016)		5	5	0	-
M.E.(2015-2017)		9	6	2	-

**27. Diversity of Students:**

Batch	% of students from the same state	% of students from other state	% of students from abroad
B.E.(2008-2012)	70	30	-
B.E.(2009-2013)	60	40	-
B.E.(2010-2014)	70	30	-
B.E.(2011-2015)	65	35	-
B.E.(2012-2016)	83	17	-
B.E.(2013-2017)	57	43	-
B.E.(2014-2018)	67	33	-
B.E.(2015-2019)	65	35	-

M.E.(2013-2015)	55	45	-
M.E.(2014-2016)	80	20	-
M.E.(2015-2017)	100	0	-

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

Year	Name of competitive	No. of Students Appeared	No. of students cleared
2011-12	GATE	10	1
2011-12	TANCET	8	8
2012-13	TANCET	4	4
2013-14	GATE	5	0
2013-14	TANCET	8	8
2013-14	TANCET	4	4

**29. Student progression**

Student progression	Against % enrolled			
	2014-2015	2013-2014	2012-2013	2011-2012
UG to PG	6.5 %	8.6 %	5.6 %	9.3 %
On/off campus selection	31%	58%	36%	30%
Entrepreneurship/ Self	-	-	-	-

**30. Details of Infrastructural Facilities:**

**a) Department Library**

No. of Books/Monographs	200
No. of journal	0
No. of project report	73

**b) Internet Facilities for staff and students**

- ✓ 12 systems with internet bandwidth of 100 Mbps
- ✓ Wi-Fi enabled campus

**c) Classroom with ICT facility**

- ✓ Room with 60 seating capacity, CPU and LCD projector and multimedia kits OHP.

**d) Laboratories**

S. NO	NAME OF THE LABORATORY	Major Equipments	COST OF THE LAB (RUPEES)
1	Engineering Practices Laboratory	Energy Meter	Rs.13,788
		Megger	
		Inductive Load	
2	Electrical Circuits Laboratory	CRO	Rs.2,25,695
		Function Generator	
		Regulated Power Supply	
3	Electrical Machines Laboratory	Motor Generation Set	Rs.18,08,440
		Motors	
4	Control and Instrumentation Laboratory	Flow measurement kit	Rs.4,00,150
		Synchro transmitter and receiver	
5	Power Electronics Laboratory	Rectifiers	Rs.20,79,790
		Choppers	
		Inverters	
		Controller Circuits	
		Convertor Circuits	
		Drives Trainer Kit	

6	Power System Simulation Laboratory	MATLAB Software	Rs.12,00,000
7	Electric Drives and Control Laboratory	Controller Circuits	Rs.96,8870
		Power Module	
		Induction Motor	

**31. Number of Students receiving financial assistance from College, University, government or other agencies:**

**UG: B.E (EEE)**

S.No.	Batch	Type of Scholarship			No of beneficiaries
		Private	Government	First Graduates	
1	2011-2012	0	72	53	125
2	2012-2013	0	80	74	154
3	2013-2014	3	86	81	170
4	2014-2015	3	55	63	121

**P.G(PED)**

S.No.	Batch	Type of Scholarship		No of beneficiaries
		Private	Government	
2	2013-2014	-	2	2
3	2014-2015	-	5	5

**32. Details on student enrichment programmes (special lectures / workshops/ seminar) with external experts:**

S No	Name of the seminar / conference /workshops conducted	Year	Number of students benefited
1	Coordinate Systems - Electro-magnetic Field theory	2009	62

2	Grid Systems	2010	112
3	Career for an Engineer for defense research	2011	60
4	Career opportunities in Indian army	2011	180
5	Robotics and Automation	2011	62
6	Career opportunities in Electrical Engineering	2011	182
7	Embedded Systems	2012	52
8	Robotics	2012	120
9	Soft Skills	2012	63
10	Emerging trends in Embedded Systems and Drives	2013	115
11	Embedded Systems and its Applications	2014	122
12	Electrical Machines	2014	56
13	Recent Trends in Embedded System applications and design methodologies	2014	53
14	Recent trends in linear integrated circuits	2014	82
15	Solid state switch gears	2015	42
16	Solar Power Supply	2015	41
17	Embedded Systems	2015	69

### 33. Teaching methods adopted to improve student learning

- ✓ Chalk and talk method
- ✓ Multimedia and OHP presentation
- ✓ Tutorial Hours engaged by two faculty members
- ✓ In-plant and Internship Training
- ✓ Assignments
- ✓ Provision to access NPTEL videos

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

S. No	Type of activities	No of Students Participated
1	NSS camp	10
2	Tree Plantation(Green Club)	12
3	Renewable Energy Resources Programme	4
4	Blood Donation camp	15

### 35. SWOC analysis of the department and Future plans

#### Strength

- ✓ Experienced faculty with diverse field of Specialization
- ✓ Excellent staff retention and staff student ratio
- ✓ State of art laboratories set up in collaboration with leading corporate such as National Instruments
- ✓ More Seminars and guest lecturers have been conducted by the department for students

### **Weakness**

- ✓ Lack of patent filing
- ✓ Lack of funded projects
- ✓ Lack of more number of publications by faculties

### **Opportunities**

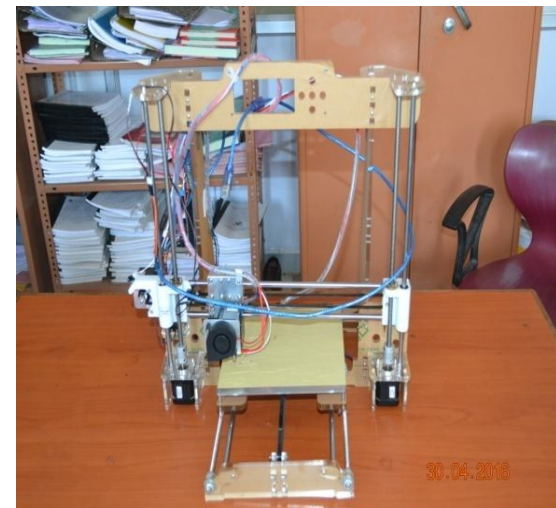
- ✓ Strong linkage between education programs and industrial requirement
- ✓ TUV Rhineland Wind energy based laboratory has been set up to enhance student projects
- ✓ IT industries

### **Challenges**

- ✓ To increase the student publications in peer reviewed journals
- ✓ To obtain patents for research projects
- ✓ Making the students to be aware of the latest technical advancements

### **Future plans**

- ✓ To be accredited by NBA
- ✓ More number of research publications and research activities
- ✓ The number of faculty members with Ph.D degree are to be increased







**EVALUATIVE REPORT OF  
ELECTRONICS AND  
COMMUNICATION  
ENGINEERING**

## Evaluative Report of Electronics and Communication Engineering

**1. Name of the department : ELECTRONICS AND COMMUNICATION ENGINEERING**

**2. Year of Establishment : 2008**

**3. Name of Programmes / Course Offered:**

<b>Courses</b>	<b>Name Of The Programme</b>	<b>Year Of Establishment</b>
B.E	Electronics & communication Engineering	2008
M.E	VLSI Design	2012

**4. Names of Interdisciplinary courses and the departments / units Involved:**

<b>S.No</b>	<b>Interdisciplinary Course</b>	<b>Department Involved</b>
1	Technical English-I	S & H-English
2	Mathematics-I	S & H-Mathematics
3	Engineering Physics-I	S & H-Physics
4	Engineering Chemistry-I	S & H-Chemistry
5	Engineering Graphics	Mechanical
6	Computer Programming	CSE
7	Physics & Chemistry Laboratory-I	S & H-Physics/Chemistry
8	Engineering Practices Laboratory(Group A)	Mechanical
9	Computer Practices Laboratory	CSE
10	Technical English-II	S & H-English
11	Engineering Chemistry-II	S & H-Chemistry
12	Mathematics-II	S & H-Mathematics
13	Engineering Physics-II	S & H-Physics
14	Basic Civil and Mechanical Engineering	Mechanical
15	Computer Practices Laboratory	CSE
16	Physics & Chemistry Laboratory-II	S & H-Physics/Chemistry
17	Transforms and Partial Differential Equations	S & H-Mathematics

18	Environmental Science and Engineering	S & H-Chemistry
19	Numerical Methods	S & H-Mathematics
20	Data Structures & Object Oriented Programming in C++,	CSE
21	Data Structures & Object Oriented Programming Lab,	CSE
22	Communication Skills & personality Development Lab	S & H-English
23	Operating Systems	CSE
24	Applied Mathematics for communication Engineers	S & H-Mathematics
25	Electrical Engineering & Control Systems Lab	EEE

**5. Annual / Semester/ Choice Based Credit System (programme wise):**

Name Of The Programme	Annual / Semester / Choice Based System
BE	Semester Based Credit System
ME	Semester Based Credit System

**6. Participation of the department in the courses offered by other departments:**

S. No	Programme	Subject Name	Service To
1	B.E.	Engineering Practices Laboratory(Group B)	Mechanical,CSE, EEE, CIVIL
2	B.E.	Digital Principles and System Design	CSE
3	B.E.	Digital Lab	CSE
4	B.E.	Analog and Digital Communication	CSE
5	B.E.	Microprocessor & Micro Controller	CSE
6	B.E.	Microprocessor & Micro Controller Lab	CSE
7	B.E.	Digital signal processing	CSE
8	B.E.	Digital signal processing	EEE
9	B.E.	Analog and Digital Communication	IT
10	B.E.	Principles of Communication	IT
11	B.E.	Microprocessor & Micro Controller	IT
12	B.E.	Microprocessor & Micro Controller	IT

		Lab	
13	B.E.	Embedded Systems	IT
14	B.E.	Digital signal processing	IT
15	B.E.	Wireless Communication	IT
16	B.E.	Professional Ethics & Engineering	Mechanical
17	B.E.	Principles of Management	Mechanical
18	B.E.	Total Quality Management	Mechanical

**7. Courses in collaboration with other universities, industries, foreign Institutions etc:**

S.No	Name Of The Course	Collabrative University/Industries
1	Soft Skills	Fraghren Academy
2	Embedded Systems	Everonn, Coimbatore
3	Training, Mentoring, Coaching, Shaping & Personal encouragement for the students	HOPE FACTORY, Coimbatore
4	CAAD	CAAD Centre, coimbatore
5	ROBOTICS	Li2 Innovations, Bangalore
6	Windmills and Training centre	TUV – Rheinland, Germany
7	PIC Microcontroller	Sandroid Automation Personified
8	VLSI	XPLORE IT CORP, Coimbatore
9	Arduino and Embedded systems	EFY Tech Centre, Coimbatore
10	Microcontrollers	Aztec Embedded Solutions

**8. Details of Courses / Programmes discontinued (if any) with reasons: NIL**

**9. Number of Teaching Posts (UG & PG)**

DESIGNATION	SANCTIONED	FILLED
Professor	3	1
Associate Professor	6	2
Assistant Professor	19	26

**10 .Faculty Profile with name , qualification , designation , specialization (D.SC/D.Litt/PH.D/M.Phill etc.):**

S.No	Name	Designation	Qualification	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr.R.K.Gnanamurthy	Professor	Ph.D	Security & Networks	28.0	4
2	Dr.V.Bindhu	Associate Professor & Head	Ph. D	VLSI & Signal Processing	11.5	Nil
3	Mr.V.S Nishok	Assistant Professor	M.E(Ph.D)	VLSI Design	5.0	Nil
4	Mrs.D.Kavitha	Assistant Professor	M .E	VLSI Design	6.0	Nil
5	Mrs.S.Sofia	Associate Professor	M. E(Ph.D)	Communication Systems	12.3	Nil
6	Mr.V. PremChandran	Assistant Professor	M .E(Ph.D)	Applied Electronics	7.6	Nil
7	Ms.V.K Subhashini	Assistant Professor	M. E	Wireless Communication	6.0	Nil
8	Mr.E.Vimal	Assistant Professor	M .E	Instrumentation Engineering	6.0	Nil
9	Mr.N.Arun Vignesh	Assistant Professor	M. E(Ph.D)	Applied Electronics	5.0	Nil
10	Mrs.N.Nithya	Assistant Professor	M .E	Communication Systems	5.0	Nil
11	Mr.N.Kumareshan	Assistant Professor	M. E(Ph.D)	Communication Systems	5.0	Nil
12	Mr.C.Gokul Prasad	Assistant Professor	M .E	Communication Systems	4.0	Nil

13	Ms.V.Suryakumari	Assistant Professor	M .E	VLSI Design	4.0	Nil
14	Mrs.S.Vigneswari	Assistant Professor	M .E	Applied Electronics	3.0	Nil
15	Mr.S.V. Ramanan	Assistant Professor	M .E	Communication Systems	3.0	Nil
16	Mr.A.Ashok kumar	Assistant Professor	M .E	Applied Electronics	2.4	Nil
17	Mr.S.Mohanasundaram	Assistant Professor	M .E	Embedded Systems	2.0	Nil
18	Mr.R.Kanagavaratharajan	Assistant Professor	M .E	VLSI Design	2.0	Nil
19	Mr.T.Naveen	Assistant Professor	M .E	VLSI Design	2.8	Nil
20	Ms.S.Kavipriya	Assistant Professor	M .E	Communication Systems	4.0	Nil
21	Mr.N.Ananth	Assistant Professor	M .E	Embedded Systems	2.0	Nil
22	Mr.R.Gowtham	Assistant Professor	M .E	Applied Electronics	2.0	Nil
23	Mrs.R.Shalini	Assistant Professor	M .E	Applied Electronics	1.5	Nil
24	Mr.S.Yuvaraj	Assistant Professor	M .E	VLSI Design	1.5	Nil
25	Mr.N.Ponnusamy	Assistant Professor	M .E	Computer & Communication Engg.	2.0	Nil
26	Ms.P.M.GomathyArpudha	Assistant Professor	M .E	VLSI Design	0.4	Nil

27	Mrs.S.Sharmila	Assistant Professor	M .E	VLSI Design	0.4	Nil
28	Mr.K.Saravanan	M.E.	Assistant Professor	VLSI	0.4	Nil
29	Ms.D.Raji	M.E.	Assistant Professor	VLSI	0.4	Nil

**11. List of senior visiting faculty** : NIL

**12. Percentage of lectures delivered and practical classes handles programme wise) by temporary faculty** : NIL

**13. Student – Teacher ratio (programme wise):**

Programme		Student – Teacher Ratio
UG	BE	9:1
PG	ME	13:1

**14. No. of academic support staff (technical) and administrative staff sanctioned and filled:**

No of support staff (technical) : 3  
 No. of administrative staff : 2

**15. Qualification of teaching faculty with D.SC./D.Litt/Ph.D/Mphil/PG:**

S.No	Qualification	Number Of Teaching Faculty
1	Ph.D	2
2	Pursuing Ph.D	5
3	PG	22

**16. No. of faculty with ongoing projects from:**

e) National : NIL  
 f) International : NIL

**17. Departmental projects funded by DST-FIST; UGC, DBT , ICSSR , etc and total grants received:** :NIL

**18. Research Centre / facility recognized by the University** : NIL

**19. Publications:**

**a) Publication per faculty**

<b>Faculty Name</b>	<b>Total Number Of Peer Reviewed Journals</b>
Dr.V.Bindhu	9
Mr.N.Kumareshan	4
Mr.V.Premchandran	2
Mr.Arun Vignesh.N	2
Mr.Nishok V S	2
Mr.Mohanasundaram	1

**c) Publication per student**

<b>Student Name</b>	<b>Total Number Of Peer Reviewed Journals</b>
Mr.Linto Kurikose	1
Ms.Sajithra	1

Number of publications listed in International Database (For Eg: Web of science, scopus, Humanities International complete, Dare Database- International Social Directory, EBSCO host, etc.,) : 4

Monographs : NIL

Chapter in Book : NIL

Books edited : NIL

Books with ISBN/ISSN numbers : NIL

With details of publishers : NIL

Citation Index : NIL

SNIP : NIL

SJR : NIL

Impact factor : 03

H-index : NIL

**20. Areas of consultancy and income generated** : NIL

**21. Faculty as members in**

- ✓ National committees : NIL
- ✓ International Committees : NIL
- ✓ Editorial Boards : 01

NAME OF FACULTY	MEMBERSHIP / COMMITTEE
Dr.R. K. Gnanamurthy	Indian Society For Technical Education (ISTE) Life Member, Computer Society of India Fellow of Institution of Engineers(IE) Member of IIIE, India. Students Member, Institute of Electrical & Electronics (IEEE) (USA).
Dr.V.Bindhu	Indian Society For Technical Education (ISTE)

**22. Student projects:**

- c) Percentage of students who have done in-house projects including inter departmental / programme

**UG:**

Batch	Total Number Of Candidates	% In House Projects
2008-2012	61	95
2009-2013	59	100
2010-2014	69	100
2011-2015	111	96
2012-2016	94	90

**PG:**

<b>Batch</b>	<b>Total Number Of Candidates</b>	<b>% In House Projects</b>
2012-2014	18	94
2013-2015	14	100
2014-2016	04	100

d) Percentage of students place for projects in organizations outside the Institutions i.e. In research laboratories /Industry/other agencies

**UG:**

<b>Batch</b>	<b>Total Number Of Candidates</b>	<b>% Industrial Projects</b>
2011-2015	111	4
2012-2016	94	5

**PG:**

<b>Batch</b>	<b>Total Number Of Candidates</b>	<b>% Industrial Projects</b>
2012-2014	18	6

### **23. Awards / Recognitions received by faculty members**

<b>S. No</b>	<b>Name Of The Faculty</b>	<b>Name Of The Award /Recognition</b>	<b>Issuing Authority</b>	<b>Year Of Receiving</b>
1	Dr.V.Bindhu	Teaching Awards in Engineering	Staffordshire University ,UK	2014

### **Student Awards:**

<b>S.No</b>	<b>Name of the Students</b>	<b>Name of the award</b>	<b>Issuing Authority</b>	<b>Year of Receiving</b>
1	Abinaya Sindhu	University rank holder/28 <sup>th</sup>	Anna University	2012
2	Veena Vijayan	University rank holder/37 <sup>th</sup>	Anna University	2012

3	Abinaya Sindhu	Best outgoing student	PPGIT	2012
4	Jayakumar.S Parthiban.A Gowtham kumar.M	Project Presentation /2 <sup>nd</sup> Prize	Rathinam College	2012-2013
5	Parthiban.A Gowtham kumar.M	Project Presentation /2 <sup>nd</sup> Prize	Venkateswara College	2012-2013
6	Premkumar.S	Treasure Hunt/ 2 <sup>rd</sup> Prize	Krishna College	2012-2013
7	Caxton Titus.T Mohanraj.D	Paper Presentation/ 3 <sup>rd</sup> Prize	SREC	2012-2013
8	Mary Shaly Cynthia Lavanya.M	Technical Quiz/1st Prize	CIET College	2012-2013
9	NaveenKumar.B Shree Devi.R	Technical Quiz/3 <sup>rd</sup> Prize	National Level Technical Symposium Held At CIET College	2012-2013
10	Madhumitha Ravi	Multimedia Presentation/1st Prize	SNS College Of Technology -Technical Symposium	2012-2013
11	Indhumathi.D	Quiz,Circuit Debugging / Ms.Milagro & (Runner Up)	Technical Symposium Held At CIET	2012-2013

12	A.Parthiban M.Gowtham Kumar	State Level Science Exhibition/ 1 <sup>st</sup> Prize	Kongu Eng.College	2013-2014
13	Sreelakshmi.T.V	University rank holder/25 <sup>th</sup>	AnnaUniversity	2010-2014
14	Shree Devi.R	University rank holder/41 <sup>th</sup>	AnnaUniversity	2010-2014
15	Pavithra	Best outgoing student	PPGIT	2014
16	Anu.M	University rank holder/36 <sup>th</sup>	AnnaUniversity	2012-2014
17	Hellen Judy	University rank holder/20 <sup>th</sup>	AnnaUniversity	2013-2015
18	R.Sundara pandian	Mr.TamilNadu/ 1 <sup>st</sup> place State level (Body Building)	TamilNadu Government, IBBF	2015-2016
19	R.Sundara pandian	Mr.AnnaUniversity/ 1 <sup>st</sup> place (Body Building)	State level- InterZonal	2015-2016
20	R.Sundara pandian	All INDIA University (Body Building)	National level	2015-2016
21	R.Sundara pandian	Mr.INDIA/6 <sup>th</sup> place National level(Body Building)	Central Government	2015-2016

#### 24. List of eminent academicians and scientist / visitors to the department

S.No	Eminent academicians, Scientists and Visitors	From
1	Mrs.Vanitha Mohan, Vice-Chairman	Pricol Limited
2	Dr.Thanushkodi, Director	Akshaya College of Engineering & Technology
3	Dr.S.N.Sivanandam, Emeritus & Professor	Karpagam Institute of Technology , Coimbatore
4	Dr.Radhakant padhi, Associate Professor	Indian Institute of Science, Bangaluru, India
5	Dr.Paulraj Murugesha Pandiyan Associate Professor	University Malaysia Perlis, Malaysia
6	Dr. B.C.Pillai, Dean , Research	Karunya University
7	Dr. N.J.R Muniraj., Principal,	Tejaa Shakthi Institute Of Technology, Coimbatore,
8	Mr.Arvind Nadig, Managing Director	Li-2 Innovations, Bangalore

#### 25. Seminars/Conferences /Workshops organized & source of funding :

S No	Name of the seminars /conference/workshop	Date	Resource Person invited	Source of Funding
1	Seminar on Model Based Embedded System	16.07.2012	Mr.M.Illango (Robust Enlite)	Department Association
2	Seminar on Embedded System & Application	20.07.2012	Mr.Sundaramoorhthy (A-Team & Intelogies)	Department Association
3	Seminar on Robotics	27.07.2012	Mr.Arvind Nadig Managing Director	Department

			Li-2 Innovations	Association
4	Seminar on VLSI & Embedded System	30.07.2012	Mr.B.A.Basha (Log It Technologies)	Department Association
5	Workshop on Robotics & Automation	24.08.12 & 25.08.12	Li-2 Innovations Pvt Ltd	Department Association
6	First National Conference On Telecommunication & Control Engineering NCTCE'12	06.01.2012	Dr. B.C.Pillai Dean , Research Karunya University, As A Chief Guest  Dr. N.J.R Muniraj., Principal, Tejaa Shakthi Institute Of Technology, Coimbatore, As A Keynote Speaker	Department Association
7	Second National Conference On Telecommunication & Control Engineering NCTCE'13	04.03.2013	Dr.K.Thanushkodi, Director - ACET	Department Association
8	Workshop on Simulating Tools in Electronics Engineering	13.02.2015	Mr.V.Premchandran Nr.S.V.Ramanan, Department of ECE	Department Association
9	Guest Lecture on Emerging Trends in Embedded Systems	11.07.2015	Mr.Sudalai, PANTECH Solutions,Coimbatore	Department Association
10	Seminar on Android	29.07.2015	Propulsion Technologies,	Department Association
11	Seminar on Entrepreneurship	01.08.2015	Mr.Gowtham, Universal Power Supplies,	Department Association

12	Workshop on Hands on training in Embedded	21.08.2015	Aze-Tech, Coimbatore	Department Association
13	Seminar on Robotics & Its future	10.09.2015	Mr, Prakash, VEE XPLORE, Coimbatore	Department Association
14	National Level Technical Symposium (PRAVAAH-13)	23.02.2013	Dr.S.B.Vijayaragavan, Altech Industries. Mr.V.Ramesh, DGM, Lakshmi Technology & Engineering Indusytry Ltd.	Department Association
15	National Level Technical Symposium (Etrixz-14)	1.10.2014	Dr.Vanitha mohan, Vice-Chairman, Pricol Limited	Department Association
16	National Level Technical Symposium (PRAVAAH-16)	2016	Mr.Visvanathan CEO Ammarun Foundries, Coimbatore	Department Association
17	International Conference On Computing Techniques,Embedded Systems & Drives ICCED'12	07.03.2012 08.03.2012 09.03.2012	Dr. S. N. Sivanandam, Emeritus & Prof, As Guest Of Honor Dr. Paulraj Murugesu Pandiyan, Associate Professor,University MalaysiaPerlis,Malaysia As Chief Guest Dr. Radhakant Padhi, Associate Professor,IISC, Bangalore,As a Keynote Speaker	Department Association

**26. Student Profile Programme / Course wise:**

Name Of The Course/ Programme (Refer Question No. 4)	Applications Received	Selected	Enrolled		Pass Percentage
			M	F	
B.E(2008-12)	Anna University Single Window System	61	34	7	89%
B.E(2009-13 )		59	40	9	77%
B.E(2010-14 )		69	31	8	81%
B.E(2011-15 )		111	55	6	65%
B.E(2012-16 )		94	56	8	83%
B.E(2013-17 )		53	28	5	–
B.E(2014-18 )		23	10	3	–
B.E(2015-19 )		17	6	1	–
M.E(2012-14 )		18	5	3	89%
M.E(2013-15 )		14	5	9	100%
M.E(2014-16 )		4	2	2	–
M.E(2015-17 )		5	1	4	–

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

No of students cleared GATE Exam

:08

## 29. Student progression

Student Progression	Against % Enrolled					
	2009-13	2010-14	2011-15	2012-16	2012-14 (PG)	2013-15 (PG)
UG to PG	10.1	8.69	1.80	–	–	–
PG to Ph.D.	–	–	–	–	–	–
Employed (Campus Selection)	13.6	40.5	26	47.3	55.5	50
Employed (Other than Campus Recruitment )	50	40	56	–	44.4	25
Entrepreneurship / Self - Employment	1.7	2.9	–	–	5.5	14.2

## 30. Details of Infrastructural Facilities:

### a) Department Library

No. of Books/Monographs	360
No. of journal	NIL
No. of project report	NIL

### b) Internet Facilities for staff and students

- ✓ 30-Terminals with Internet Bandwidth of 100 Mbps
- ✓ Wi-Fi enabled campus

### c) Classroom with ICT facility

- ✓ Room with 60 seating capacity, CPU and LCD projector and multimedia kits OHP.

**d) Laboratories**

<b>S.No</b>	<b>Name Of The Laboratory</b>	<b>Major Equipments</b>	<b>Cost Of The Lab (Rupees)</b>
1	Electronics Circuits and Devices Lab	CRO, Function Generators, Regulated power supply, multimeter, voltmeter,	3,02,807
2	Digital Electronics and IC Lab	Digital Trainer kit, IC Tester,	2,39,241
3	Microprocessor and Microcontroller Lab	8086 development kits, interfacing units, microcontroller unit,8085 microprocessor	3,02,807
4	DSP Lab	TMS Processor kit, MATLAB software	12,43,592
5	LIC lab	CRO, Signal generator, dual regulated power supply, digital multimeter, IC Tester, PCs	1,57,000
6	VLSI lab (PG)	SPICE & Xilinx software, FPGA	5,38,061
7	Communication lab	CRO, Signal Sampling & Modulation kits, Function generator, MATLAB	68,750
8	RF & Optical lab	Microwave test bench, Reflex klystron, gunn diode, gunn oscillator, isolator, fixed/variable attenuator, waveguides, frequency meter, movable short, horn antenna, directional coupler, digital/analog oscilloscope, detector 9with mount	9,51,807
9	Networks and VLSI Lab	LAN Trainer kit, WLAN, FPGA kit, Xilinx software	10,04,232

**31. Number of Students receiving financial assistance from College, University, government or other agencies:**

**UG: B.E (ECE)**

S.No.	Batch	Type of Scholarship			No of beneficiaries
		Private	Government	First Graduates	
1	2011-2012	4	101	76	181
2	2012-2013	2	135	123	260
3	2013-2014	4	150	137	295
4	2014-2015	3	124	126	253

**32. Details on student enrichment programmes (special lectures / workshops/ seminar) with external experts:**

S. No.	Name of the seminar / conference /workshops conducted	Year	Number of students benefited
1	Robotics/Technical seminar	2011	95
2	Industrial automation and lab view application/seminar	2011	65
3	Fundamentals of image processing and its application/Guest lecture	2011	72
4	Practice of lab view with application/seminar	2011	68
5	Model based embedded system/seminar	2012	84
6	Embedded system and application	2012	60
7	Robotics/seminar	2012	85
8	VLSI and embedded system/seminar	2012	45
9	Robotics and Automation/workshop	2012	52
10	Emerging trends in Embedded systems/Guest Lecture	2015	78
11	Android/Seminar	2015	175
12	Entrepreneurship/Seminar	2015	97
13	Key Note- Interview approach/ Guest Lecture	2015	175
14	Hands-on Training in Embedded/ Workshop	2015	97
15	Robotics & its Future/ Seminar	2015	175
16	Current trends in industries/ Key note presentation	2015	175

17	Simulating Tools in Electronics Engineering/workshop	2015	90
18	IC Design Flow Using Mentor Graphics Tool/workshop	2015	35

### VALUE ADDED COURSES

S.No	Academic Year/Sem	Course Title	Number Of Students Benefitted
1	2011-12/ Odd & Even Sem	Hope Factory (Training, Mentoring, Shaping , Coaching & Personal Encouragement)	72
2	2011-12/Odd Sem	CAD	71
3	2012-13/Odd Sem	Robotics	69
4	2013-14/Odd Sem	Embedded Systems	111
5	2013-14/Odd Sem	VLSI	111
6	2014-15/Even Sem	Embedded Systems	94
7	2014-15/ Even Sem	Arduino	94
8	2014-15/ Odd Sem	PIC Microcontroller	53
9	2015-16/Even Sem	Embedded Systems	53
10	2015-16/Even Sem	PCB Designing	25
11	2015-16/Even Sem	Basic Electronics Hardware & Testing	25

### 33. Teaching methods adopted to improve student learning

- ✓ Additional resources such as NPTEL are used.
- ✓ Technical Seminars, Industrial visit and Guest Lectures are arranged periodically.
- ✓ The tutorial hours are engaged with two/three faculty members.
- ✓ Topics beyond the syllabus are discussed during lecture hours in each subjects
- ✓ Advanced teaching aids are used for class room lectures.

- ✓ Students are motivated towards attending internship during exam holidays.
- ✓ Experiments beyond the syllabus are done during lab hours.

#### **34. Participation in Institutional Social Responsibility (ISR) and Extension activities**

- ✓ Active participation of students in NSS activities
- ✓ Involvement in Tree plantation as a part of green club activity
- ✓ Involvement in Blood donation camps.
- ✓ Helping hands to orphanage students.

#### **35. SWOC analysis of the department and Future plans**

##### **Strength:**

- ✓ Qualified, co-operative and dedicated faculty members in diversified fields of specialization.
- ✓ Usage of special teaching aids in class room sessions.
- ✓ Active Participation of students in technical events organized by other reputed Institutions.
- ✓ Adequate laboratory facilities.

##### **Weakness:**

- ✓ Lack of funded projects & consultancy activities.
- ✓ Need to involve more students in industry collaborative and social relevant research projects.
- ✓ Lack of publications in referred impact factor journals by faculty.
- ✓ Lack of collaborative laboratories.

**Opportunities:**

- ✓ Improving employability skills of students through value added courses & skill development programs.
- ✓ Invited talks by eminent personalities to expose students and faculty to ever Growing technology.
- ✓ Motivate students to enhance their projects through industries and National Laboratories.

**Challenges:**

- ✓ Producing 100% result and more University Ranks.
- ✓ Increasing the publications in referred impact factor journals.
- ✓ Improve funded projects & consultancy activities.

**Future Plan:**

- ✓ To establish more industry collaborative labs.
- ✓ To improve the extension activity to the society.
- ✓ To get more funding for workshops, conferences, seminars and research projects.









# **EVALUATIVE REPORT OF MECHANICAL ENGINEERING**

## Evaluative Report of Mechanical Engineering

**1. Name of the department** : MECHANICAL ENGINEERING

**2. Year of Establishment** : 2009

**3. Name of Programmes / Course Offered:**

Courses	Name Of The Programme	Year Of Establishment
B.E	Mechanical Engineering	2009
M.E	Engineering Design	2013

**4. Names of Interdisciplinary courses and the departments / units Involved:**

S.No	Interdisciplinary Course	Department Involved
1	Technical English-I	S & H-English
2	Mathematics-I	S & H-Mathematics
3	Engineering Physics-I	S & H-Physics
4	Engineering Chemistry-I	S & H-Chemistry
5	Fundamentals Of Computing & Programming	CSE
6	Physics & Chemistry Laboratory-I	S & H-Physics/Chemistry
7	Computer Practices Laboratory-I	CSE
8	Technical English-II	S & H-English
9	Engineering Chemistry-II	S & H-Chemistry
10	Mathematics-II	S & H-Mathematics
11	Engineering Physics-II	S & H-Physics
12	Basic Electrical and Electronics Engineering	EEE
13	Computer Practices Laboratory-II	CSE
14	Physics & Chemistry Laboratory-II	S & H-Physics/Chemistry
15	Transforms and Partial Differential Equations	S & H-Mathematics
16	Electrical Drives And Control	EEE
17	Electrical Engineering Laboratory	EEE
18	Statics And Numerical Methods	S & H-Mathematics
19	Electronics And Microprocessors	EEE
20	Environmental Science And Engineering	S & H-Chemistry
21	Communication Skill Lab	S & H-English

22	Communication Skill Lab	S & H-English
23	Advanced Numerical Methods	S & H-Mathematics

**5. Annual / Semester/ Choice Based Credit System (programme wise):**

Name Of The Programme	Annual / Semester / Choice Based System
BE	Semester Based Credit System
ME	Semester Based Credit System

**6. Participation of the department in the courses offered by other departments:**

S. No	Programme	Subject Name	Service To
1	B.E.	Engineering Practices Laboratory(Group A)	EEE, CSE, ECE, CIVIL, MECHATRONICS.
2	B.E.	Engineering Graphics	ECE, EEE, CSE, MECHATRONICS
3	B.E.	Basic Civil & Mechanical Engineering	EEE
4	B.E.	Strength Of Materials	MECHATRONICS
5	B.E.	Fluid Mechanics And Machinery	MECHATRONICS
6	B.E.	Thermodynamics principles & Applications	MECHATRONICS

**7. Courses in collaboration with other universities, industries, foreign institutions etc:**

S.No	Name Of The Course	Collabrative University/Industries
1	ANSYS	Maxcadd, Coimbatore.
2	CATIA	TVS Group Explore IT corp
3	CREO	ELF Global solutions
4	In-Plant Training	Ammarun Foundries (PVT) Ltd., CBE.
5	Windmills and Training centre	TUV – Rheinland, Germany
6	Solid Works	Maxcadd , Coimbatore.

**8. Details of Courses / Programmes discontinued (if any) with reasons:**  
NIL

**9. Number of Teaching Posts (UG & PG)**

DESIGNATION	SANCTIONED	FILLED
Professor	4	2
Associate Professor	8	0
Assistant Professor	22	29

**10 .Faculty Profile with name , qualification , designation , specialization (D.SC/D.Litt/PH.D/M.Phill etc.):**

S.No	NAME	QUALIFICATION	DESIGNATION	SPECIALIZATION	NO. OF YEARS OF EXPERIENCE	NO. OF PH.D STUDENTS GUIDED FOR THE LAST 4 YEARS
1	Dr.R Prakasam	M.E, Ph D.,	Professor & Principal	Mechanical Engineering	35	-
2	Dr.D.Elangovan	M.E, Ph.D.,	Professor & Dean	Production Engineering	19.9	2
3	Mrs.D.Rajeswari	M.E., (Ph.D).	Assistant Professor	Engineering Design	5.0	-
4	Mr.R.V.Rangarajan	M.E. (Ph.D).	Assistant Professor	PDD	5.0	-
5	Mr.V.Karthi	M.E	Assistant Professor	CAD/CAM	3.0	-
6	Mr.D.Praveen Kumar	M.E.	Assistant Professor	Manufacturing Engineering	3.9	-
7	Mr.K.Ragunath	M.E.	Assistant Professor	CAD/CAM	3.0	-

8	Mr.A.Sathish Kumar	M.E.	Assistant Professor	CAD/CAM	3.10	-
9	Mr.R.Jeevanantham	M.E.	Assistant Professor	CAD	3.9	-
10	Mr.C.Balamurugan	M.E.	Assistant Professor	Manufacturing Engineering	1.9	-
11	Mr.S.Deepak	M.E.	Assistant Professor	Engineering Design	1.9	-
12	Mr.V.Varatharasan	M.E.	Assistant Professor	Engineering Design	2.0	-
13	Mr.J.G.Vignesh	M.E.	Assistant Professor	Thermal Engineering	1.3	-
14	Mr.S.Jeyakumar	M.E.	Assistant Professor	Automobile Engineering	0.9	-
15	Mr.ArunKumar	M.E.	Assistant Professor	Engineering Design	0.2	-
16	Mr.R.Dinesh	M.E.	Assistant Professor	Engineering Design	0.9	-
17	Mr.L.R.Sanjith	M.E	Assistant Professor	Energy Engineering	1.8	-
18	Mr.P.Ramesh	M.E	Assistant Professor	Engineering Design	1.0	-
19	Mr.A.John Brito	M.E	Assistant Professor	CAD/CAM	5.0	-
20	Mr.G.Jayabalaji	M.E	Assistant Professor	Automotive Engineering	0.2	-
21	Mr.P.Logeswaran	M.E	Assistant Professor	Engineering Design	0.2	-
22	Mr.C.Praveen	M.E	Assistant Professor	Engineering Design	2.0	-
23	Mr.R.Pandurangan	M.E	Assistant Professor	Engineering Design	0.2	-
24	Mr. S.Selvaraj	M.E	Assistant Professor	Advanced Manufacturing	0.2	-
25	Mr. T.Venkateswaran	M.E	Assistant Professor	Engineering Design	0.2	-
26	Mr.K.Arun	M.E	Assistant Professor	CIM	3.0	-
27	Mr.D.Arun	M.E	Assistant Professor	Mechanical	2.0	-

28	Mr.K.Arul Manikandan	M.E	Assistant Professor	Mechanical	1	-
29	Mr.N.Mathiyalagan	M.E	Assistant Professor	Mechanical	0.3	-
30	Mr.S.Nandakumar	M.E	Assistant Professor	Engineering Design	-	-
31	Mr.R.S.Balaksihnaramnath	M.E	Assistant Professor	Engineering Design	-	-

**11. List of senior visiting faculty** : NIL

**12. Percentage of lectures delivered and practical classes handles (programme wise) by temporary faculty** : NIL

**13. Student – Teacher ratio (programme wise):**

Programme		Student – Teacher Ratio
UG	BE	15:1
PG	ME	14:1

**14. No. of academic support staff (technical) and administrative staff sanctioned and filled:**

No of support staff (technical) : 4

No. of administrative staff : 2

**15. Qualification of teaching faculty with D.SC./D.Litt/Ph.D/Mphil/PG:**

S.No	Qualification	Number Of Teaching Faculty
1	Ph.D	2
2	Pursuing Ph.D	2
3	PG	27

**16. No. of faculty with ongoing projects from:**

g) National : NIL

h) International : NIL

**17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR , etc and total grants received:** : NIL

**18. Research Centre / facility recognized by the University** : NIL

**19. Publications:**

**a) Publication per faculty**

<b>Faculty Name</b>	<b>Total Number Of Peer Reviewed Journals</b>
Dr.R Prakasam	19
Dr.D.Elangovan	15
Mr.A.Sathish Kumar	1
Mr.J.G.Vignesh	1
Mr.R.Jeevanantham	1
Mrs.D.Rajeswari	1

Number of publications listed in International Database (For Eg: Web of science, scopus, Humanities International complete, Dare Database- International Social Directory, EBSCO host, etc.):

Monogra : NIL

Chapter in Book : 1

Books edited : NIL

Books with ISBN/ISSN numbers : 17

With details of publishers : NIL

Citation Index : NIL

SNIP : NIL

SJR : NIL

Impact factor : NIL

H-index : NIL

**20. Areas of consultancy and income generated** : NIL

**21. Faculty as members in**

- ✓ National committees : 5
- ✓ International Committees : NIL
- ✓ Editorial Boards : 1

NAME OF FACULTY	MEMBERSHIP / COMMITTEE
Dr.R.Prakasam	Indian Society For Technical Education (ISTE) The Institution of Engineers India (FIE) Indian Textile Association
Dr.D.Elangovan	Indian Society For Technical Education (ISTE) The Institution of Engineers India Indian Welding Society, India Tribology Society of India, India
D.Rajeswari V.Varatharasan C.Balamurugan	Indian Society For Technical Education (ISTE)

**22. Student projects:**

- e) Percentage of students who have done in-house projects including inter departmental / programme

Batch	Total Number Of Candidates	% In House Projects
2009-2013	62	100%
2010-2014	74	100%

2011-2015	63	100%
2012-2016	142	94%

- f) Percentage of students place for projects in organizations outside the institutions i.e. In research laboratories /Industry/other agencies

<b>Batch</b>	<b>2009-2013</b>	<b>2010-2014</b>	<b>2011-2015</b>	<b>2012-2016</b>
<b>Percentage</b>	-	-	-	6%

### 23. Awards / Recognitions received by faculty members

S. No	Name Of The Faculty	Name Of The Award /Recognition	Issuing Authority	Year Of Receiving
1	Mr R.V.RANGARAJAN	Best teacher in Mech .dept	PPGIT	2014

#### Student Awards:

S.No	Name of the Students	Name of the award	Issuing Authority	Year of Receiving
1	N.Rajasimman (U.G)	University Rank -49	Anna University	2014
2	P.Ramesh (P.G)	University Rank -14	Anna University	2015

### 24. List of eminent academicians and scientist / visitors to the department

S.No	Eminent academicians, Scientists and Visitors	From
1	Dr.S.Senthil kumar	PSG College of Technology
2	Mr.N.Guru prasad	ZF Wind Power Coimbatore Ltd.
3	Dr.Manjunath Kamath	School of industrial Engineering and management,USA
4	Mr.R.Padmanaban	Amrita University

5	Dr.S.Dhandapani	Former Principal, Dr NGP Institute of Technology, Coimbatore
6	Dr.Vijayarangan	Former Principal , PSG College of Technology
7	Dr.Sunil Ganguly	Vice Principal, Info Institute of Engineering

**25. Seminars/Conferences /Workshops organized & source of funding:**

S No	Name of the seminars /conference/work shop	Date	Resource Person invited	Source of Funding
1	One day Seminar on GD & T & FMEA	2015	Mr.N.Guru prasad	PPGIT
2	One day national level workshop on FEA	2015	Mr.R.Padmanaban	PPGIT
3	Two days Workshop on NDT	2016	Mr.G.Balachandran	PPGIT
4	Two days Hands on training on Automotives	2016	Mr. P.Xavier Jaganathan	PPGIT

**26. Student Profile Programme / Course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.E.(2009-2013)	Anna University Single Window System	62	62	-	65.4%
B.E.(2010-2014)		74	74	-	58.5%

B.E.(2011-2015)	75	75	-	46.6%
B.E.(2012-2016)	142	142	-	-
B.E.(2013-2017)	139	139	-	-
B.E.(2014-2018)	102	101	1	-
B.E.(2015-2019)	83	83	-	-
M.E.(2013-2015)	11	9	2	91%
M.E.(2014-2016)	5	5	-	-
M.E.(2015-2017)	6	5	1	-

**27. Diversity of Students:**

Batch	% of students from the same state	% of students from other state	% of students from abroad
B.E.(2009-2013)	81	19	-
B.E.(2010-2014)	74	26	-
B.E.(2011-2015)	87	13	-
B.E.(2012-2016)	77	23	-
B.E.(2013-2017)	75	25	-
B.E.(2014-2018)	64	36	-
B.E.(2015-2019)	77	23	-
M.E.(2013-2015)	73	27	-
M.E.(2014-2016)	80	20	-
M.E.(2015-2017)	100	-	-

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

**NIL**

## 29. Student progression

Student progression	Against % enrolled		
	2014-2015	2013-2014	2012-2013
UG to PG	0	5.4%	8%
On/off campus selection	8.6%	5.4%	3%
Entrepreneurship/ Self employment	5.8%	6.7%	9.6%

## 30. Details of Infrastructural Facilities:

### a) Department Library

No. of Books/Monographs	259
No. of journal	0
No. of project report	0

### b) Internet Facilities for staff and students

- ✓ 64 systems with internet bandwidth of 100 Mbps
- ✓ Wi-Fi enabled campus

### c) Classroom with ICT facility

- ✓ Well equipped, spacious and ventilated class rooms: 08 Nos.
- ✓ LCD projectors for multimedia presentation: 01 Nos.

### d) Laboratories

S.NO.	NAME OF THE LABORATORY	ROOM NO.	COST OF THE LAB (RUPEES)
1	Thermal Engineering Laboratory I & II	B002	13,38,980
2	CAD/CAM Laboratory	B311	34,00,260

3	Dynamics Laboratory	B003	3,25,384
4	Manufacturing Technology Laboratory I & II	B001 & B003	4,254,666
5	Metrology & Measurements Laboratory	B113	4,83,107
6	Mechatronics Laboratory	B213	9,00,000
7	Engineering Practices Laboratory	A011	4,77,664

**31. Number of Students receiving financial assistance from College, University, government or other agencies:**

**UG: B.E (Mech)**

S. No.	Batch	Type of Scholarship			No of beneficiaries
		Private	Government	First Graduates	
1	2011-2012	0	77	59	136
2	2012-2013	0	126	87	213
3	2013-2014	2	176	144	322
4	2014-2015	6	177	148	331

**32. Details on student enrichment programmes (special lectures / workshops/ seminar) with external experts:**

S.No	Name of the seminar / conference /workshops conducted	Year	Number of students benefited
1	One day Seminar on GD & T & FMEA	2015	120
2	One day national level workshop on FEA	2015	150
3	Two days Workshop on NDT	2016	148
4	Two days Hands on training on Automotives	2011	106

### 33. Teaching methods adopted to improve student learning

- ✓ Wi-Fi facility to access online learning resources.
- ✓ To enrich the practical knowledge, the students are taken to the nearby industries.
- ✓ Technical Seminar, guest lectures, workshop, technical symposium are organized to update the knowledge of the students.
- ✓ Motivate the students to participate in technical events like, paper presentation, project contest, workshops etc.
- ✓ Various activities such as placement oriented soft skills training, online aptitude tests and group discussions are conducted for the students.
- ✓ Value added Courses and mini projects beyond the curriculum.
- ✓ Counseling to the needy students through faculty counselor.
- ✓ Additional resources such as NPTEL & SPOKEN TUTORIAL are used.
- ✓ The tutorial hours are engaged with two/three faculty members.
- ✓ Topics beyond the syllabus is added in each subjects
- ✓ Advanced teaching aids are used for class room lecturers.
- ✓ Multimedia presentation along with blackboard teaching.

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

S. No	Type of activities	No of Students Participated
1	NSS camp	40
2	Tree Plantation(Green Club)	12
3	Renewable Energy Resources Programme	4
4	Blood Donation camp	35

### **35. SWOC analysis of the department and Future plans**

#### **Strength**

- ✓ Experienced faculty with diverse field of Specialization
- ✓ Excellent staff retention and staff student ratio
- ✓ State of art laboratories set up in collaboration with leading corporate such as National Instruments
- ✓ More Seminars and guest lecturers have been conducted by the department for students

#### **Weakness**

- ✓ Lack of patent filing
- ✓ Lack of funded projects
- ✓ Lack of more number of publications by faculties

#### **Opportunities**

- ✓ Strong linkage between education programs and industrial requirement
- ✓ TUV Rhineland Wind energy based laboratory has been set up to enhance student projects
- ✓ IT industries

#### **Challenges**

- ✓ To increase the student publications in peer reviewed journals
- ✓ To obtain patents for research projects
- ✓ Making the students to be aware of the latest technical advancements

#### **Future plans**

- ✓ To be accredited by NBA
- ✓ More number of research publications and research activities
- ✓ The number of faculty members with Ph.D degree are to be increased











# **EVALUATIVE REPORT OF MECHATRONICS ENGINEERING**

# Evaluative Report of Mechatronics Engineering

1. Name of the department : MECHATRONICS ENGINEERING

2. Year of Establishment : 2012

3. Name of Programmes / Course Offered:

Courses	Name Of The Programme	Year Of Establishment
B.E	Mechatronics	2012

4. Names of Interdisciplinary courses and the departments / units Involved:

S.No	Interdisciplinary Course	Department Involved
1	Technical English-I	S & H-English
2	Mathematics-I	S & H-Mathematics
3	Engineering Physics-I	S & H-Physics
4	Engineering Chemistry-I	S & H-Chemistry
5	Engineering Graphics	Mechanical
6	Computer Programming	CSE
7	Physics & Chemistry Laboratory-I	S & H-Physics/Chemistry
8	Engineering Practices Laboratory(Group A)	Mechanical
9	Engineering Practices Laboratory(Group B)	EEE
10	Computer Practices Laboratory	CSE
11	Technical English-II	S & H-English
12	Engineering Chemistry-II	S & H-Chemistry
13	Mathematics-II	S & H-Mathematics
14	Engineering Physics-II	S & H-Physics
15	Basic Electrical and Electronics Engineering	EEE
16	Computer Practices Laboratory	CSE
17	Physics & Chemistry Laboratory-II	S & H-Physics/Chemistry
18	Transforms and Partial Differential Equations	S & H-Mathematics
19	Fluid Mechanics and Machinery	Mechanical
20	Strength of Materials	Mechanical

21	Digital Electronics	ECE
22	Electrical Machines and Drives	EEE
23	Electrical Machines and Drives Laboratory	EEE
24	Fluid Mechanics and Machinery Laboratory	Mechanical
25	Dynamics of Machines	Mechanical
26	Manufacturing Technology	Mechanical
27	Metrology and Measurements	Mechanical
28	Control System Engineering	ECE
29	Dynamics Laboratory	Mechanical
30	Manufacturing Technology Laboratory	Mechanical
31	Environmental Science and Engineering	S & H-Chemistry
32	Numerical Methods	S & H-Mathematics
33	Thermodynamics Principles and Applications	Mechanical
34	Design of Machine Elements	Mechanical
35	Power Electronics	EEE
36	Object Oriented Programming	CSE
37	Object Oriented Programming Laboratory	CSE
38	Communication Skill Lab	S & H-English
39	Automobile Engineering	Mechanical

**5. Annual / Semester/ Choice Based Credit System (programme wise):**

Name Of The Programme	Annual / Semester / Choice Based System
BE	Semester Based Credit System

**6. Participation of the department in the courses offered by other departments:**

S.No	Programme	Subject Name	Service To
1	B.E.	Mechatronics	Mechanical
2	B.E.	Mechatronics Laboratory	Mechanical
3	B.E.	Electric Drives and Control	Mechanical

**7. Courses in collaboration with other universities, industries, foreign institutions etc:**

S.No	Name of the Course	Collabrative University/Industries
1	ROBOTICS	AA TEK Robo Pvt Ltd
2	PLC and SCADA	Sunrise Automation, Coimbatore

**8. Details of Courses / Programmes discontinued (if any) with reasons: NIL**

**9. Number of Teaching Posts (UG & PG)**

DESIGNATION	SANCTIONED	FILLED
Professor	1	0
Associate Professor	2	1
Assistant Professor	13	11

**10 .Faculty Profile with name , qualification , designation , specialization (D.SC/D.Litt/PH.D/M.Phill etc.):**

S.No	Name	Qualificat ion	Designati on	Specialization	No. of Years of Experienc e	No. of Ph.D. Students guided for the last 4 years
1	Mr.S.Devaneyan	ME,(Ph.D)	Associate Professor & Head	Embedded System	22	-
2	Mr.B.Rajnivas	ME,(Ph.D)	Assistant Professor	Photonics	9.0	-
3	Ms.P.Radhika	ME,(Ph.D)	Assistant Professor	Mechatronics Engineering	4.1	-
4	Mr.B.Deepak	ME	Assistant Professor	Mechatronics Engineering	3.7	-
5	Mr.Sam Joel Raj	ME	Assistant Professor	Energy Engineering	-	-

6	Mr.Binil A Joy	ME	Assistant Professor	Mechatronics Engineering	2.0	-
7	Mr.Charles Raphel	ME	Assistant Professor	Mechatronics Engineering	2.0	-
8	Mr.Mathan Raj	ME	Assistant Professor	CAD/CAM	-	-
9	Mr.S.Saravalingam	ME	Assistant Professor	Power Systems Engineering	2.0	-
10	Mrs.V.Gopika	ME	Assistant Professor	VLSI Design	6.0	-
11	Mr.S.Ramu	ME	Assistant Professor	CAD/CAM	1.0	-
12	Mr.R.Dinesh	ME	Assistant Professor	Engineering Design	1.0	-

**11. List of senior visiting faculty** : NIL

**12. Percentage of lectures delivered and practical classes handles (programme wise) by temporary faculty** : NIL

**13. Student – Teacher ratio (programme wise):**

Programme		Student – Teacher Ratio
UG	BE	15:1

**14. No. of academic support staff (technical) and administrative staff sanctioned and filled:**

No of support staff (technical) : 1  
 No. of administrative staff : 2

**15. Qualification of teaching faculty with D.SC./D.Litt/Ph.D/Mphil/PG:**

S.No	Qualification	Number Of Teaching Faculty
1	Ph.D	0
2	Pursuing Ph.D	3
3	PG	9

**16. No. of faculty with ongoing projects from:**

- a) National : NIL  
b) International : NIL

**17. Departmental projects funded by DST-FIST; UGC, DBT , ICSSR , etc and total grants received: : 2**

**18. Research Centre / facility recognized by the University : NIL**

**19. Publications:**

**a) Publication per faculty**

Faculty Name	Total Number Of Peer Reviewed Journals
Mr.S.Devaneyan	5
Mr.B.Rajnivas	2
Mr.B.Deepak	2
Mr.P.Radhika	5
Mr.S.Ramu	1
Mr.R.Dinesh	1
Ms.V.Gopika	4

**b) Publication per student**

Student Name	Total Number of Peer Reviewed Journals
Jipson M L	1
Kanagaraj K	1

Vijayakumar S	1
Prashobkumar	1
Akshay Venkat	1
Athul P	1
Gowtham G	1
Naresh Kumar A	1
Gokul Prasad M	1
Vasanth T	1
Abdullah S	1

Number of publications listed in International Database (For Eg: Web of science, scopus, Humanities International complete, Dare Database- International Social Directory, EBSCO host, etc.): 1

Monographs	: NIL
Chapter in Book	: NIL
Books edited	: NIL
Books with ISBN/ISSN numbers	: NIL
With details of publishers	: NIL
Citation Index	: NIL
SNIP	: NIL
SJR	: NIL
Impact factor	: NIL
H-index	: NIL

## 20. Areas of consultancy and income generated

- ✓ Eco Dynamic Equipments -Electric/Solar charging system for load carrying vehicle: On good will basis

- ✓ Athiparasakthi Alloy Steels Pvt Ltd -Energy auditing : On good will basis

**21. Faculty as members in**

- ✓ National committees :NIL
- ✓ International Committees : 1
- ✓ Editorial Boards :NIL

NAME OF FACULTY	MEMBERSHIP / COMMITTEE
Mr.S.DEVANEYAN	Indian Society For Technical Education (ISTE)

**22. Student projects:**

- a) Percentage of students who have done in-house projects including inter departmental / programme

Batch	Total Number Of Candidates	% In House Projects
2012-2016	16	100

- b) Percentage of students place for projects in organizations outside the institutions i.e. In research laboratories /Industry/other agencies

Batch	2012-2016
Percentage	NIL

**23. Awards / Recognitions received by faculty members**

S. No	Name Of The Faculty	Name Of The Award /Recognition	Issuing Authority	Year Of Receiving
1	Mr.S.Devaneyan	Annexure II Publication	PPG Institute of Technology	2015

**Student Awards:**

<b>S.No</b>	<b>Name of the Students</b>	<b>Name of the award</b>	<b>Issuing Authority</b>	<b>Year of Receiving</b>
1	Gowtham G	ALL ROUND PERFORMER IN UDDESHAH '16	Dr Mahalingam College Of Engineering And Technology	2016
2	Blesson M	1 <sup>ST</sup> PRIZE IN PAPER PRESENTATION	Nehru Institute Of Engineering And Technology	2016
3	Harishankar K	1 <sup>ST</sup> PRIZE IN PAPER PRESENTATION	Nehru Institute Of Engineering And Technology	2016
4	Gowtham G	1 <sup>ST</sup> PRIZE IN CAD MODELLING	Nehru Institute Of Engineering And Technology	2016
5	Balakrishnan S	3 <sup>RD</sup> PRIZE IN MIMING IN EUPHORIA '16	Psg Institute Of Technology	2016
6	Naresh Kumar S	3 <sup>RD</sup> PRIZE IN MIMING IN EUPHORIA '16	PSG College of Technology	2016
7	Vasanth T	3 <sup>RD</sup> PRIZE IN MIMING IN EUPHORIA '16	PSG INSTITUTE OF TECHNOLOGY	2016
8	Jipson M L	3 <sup>RD</sup> PRIZE IN CAD CONTEST IN MEXTRONS V.03	UNITED INSTITUTE OF TECHNOLOGY	2015
9	Vijayakumar T	3 <sup>RD</sup> PRIZE IN CAD CONTEST IN MEXTRONS V.03	UNITED INSTITUTE OF TECHNOLOGY	2015
10	Balakrishnan S	CONSOLIDATION PRIZE FOR DANCE IN HILARICAS '15	HINDUSTHAN COLLEGE OF TECHNOLOGY	2015

#### 24. List of eminent academicians and scientist / visitors to the department

S.No	Eminent academicians, Scientists and Visitors	From
1	Mr.M.Devaraj, Managing Director	Dev Solar Pvt. Ltd.
2	Mr.P. Anbazhagan, CEO	MAS Solar system Pvt.Ltd.
3	Mrs. K. Suganthi, Managing Director	MAS Solar System Pvt.Ltd.
4	Mr. Jai Ganesh Senior Automation Engineer & Automation Trainer	Ladder Logix
5	Mr. Sathish Kumar, Marketing Executive &Automation Trainer	Ladder Logix
6	Mr. R. Madhusoothanan	SIEMENS, Coimbatore
7	Mr. Villavan, Managing Director	Smart Power systems
8	Dr.V.Thiyagarajan, Professor	AKT Institute of technology
9	Dr.Tamilarasan, Professor	Periyarmaniammai University
10	Mr.Balamurugan,Associate Professor	GKD Institute of Technology
11	Dr.V.Sekar, Professor	Dhanalakshmi sreenivasan Institutions
12	Mr.L.Prince Anand, Technical Trainer	MAS Solar System Pvt. Ltd.

**25. Seminars/Conferences /Workshops organized & source of funding:**

<b>S No</b>	<b>Name of the seminars /conference/ workshop</b>	<b>Date</b>	<b>Resource Person invited</b>	<b>Source of Funding</b>
1	MNRE sponsored National level technical symposium on Renewable Energy	02.03.2015	Mr. Devaraj. M Managing Director, Dev Solar Pvt. Ltd.	MNRE
2	Renewable Energy Exhibition	26.02.2015 & 27.02.2015	Mrs. Shanthi Thangavelu Correspondent,PPGIT	PPGIT
3	MNRE sponsored national level technical seminar on Decentralized Solar Power System for rural and urban areas	28.01.2016 & 29.01.2016	Mr. Anbazhagan. P CEO,MAS Solar System Pvt. Ltd. Mrs. K. Suganthi Managing Director, MAS Solar System Pvt. Ltd.	MNRE
4	State Level Solar Exhibition for school students	03/02/2016 To 05/02/2016	Prof. Devaneyan. S R&D Head, PPGIT	PPGIT
5	i3 Expo at Codissia, Coimbatore.	27/09/2014 To 29/09/2014	Prof. Devaneyan. S R&D Head, PPGIT	PPGIT
6	Faculty development Programme	16-18 Nov 2015	Prof. Devaneyan. S Head of the Department Mechatronics, PPGIT	PPGIT

**26. Student Profile Programme / Course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percent age
			M	F	
B.E.(2012-2016)	Anna University Single Window System	16	16	-	32
B.E.(2013-2017)		43	42	1	19
B.E.(2014-2018)		24	24	-	34

\*M=Male \*F=Female

**27. Diversity of Students:**

Batch	% of students from the same state	% of students from other state	% of students from abroad
B.E.(2012-2016)	81	19	-
B.E.(2013-2017)	76	24	-
B.E.(2014-2018)	67	33	-

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**  
NIL

**29. Student progression**

NIL

**30. Details of Infrastructural Facilities:****a) Department Library**

No. of Books/Monographs	13
No. of journal	0
No. of project report	4

**b) Internet Facilities for staff and students**

- ✓ 06 systems with internet bandwidth of 100 Mbps
- ✓ Wi-Fi enabled campus

**c) Classroom with ICT facility**

- ✓ Room with 60 seating capacity, CPU and LCD projector and multimedia kits OHP.

**d) Laboratories**

S. NO	NAME OF THE LABORATORY	Major Equipments	COST OF THE LAB (RUPEES)
1	Sensors and Signal Processing Laboratory	Transducer Trainer Kit : Thermocouple, Thermistor, RTD Strain Gauge Module	1,12,946
2	Robotics Laboratory	6-axis Robot	4,00,000
3	PLC Laboratory	Pneumatic Cylinder Trainer 1MHz Pulse Generator	57,390

**31. Number of Students receiving financial assistance from College, University, government or other agencies:****UG: B.E (MCT)**

S.No.	Batch	Type of Scholarship			No of beneficiaries
		Private	Government	First Graduates	
1	2013-2014	8	12	25	45
2	2014-2015	4	22	32	58

**32. Details on student enrichment programmes (special lectures / workshops/ seminar) with external experts:**

<b>S No</b>	<b>Name of the seminar / conference /workshops conducted</b>	<b>Year</b>	<b>Number of students benefited</b>
1	Decentralized solar power systems for rural and urban areas	2016	55
2	Emotional Intelligence	2016	16
3	Awareness on renewable energy	2015	60
4	Robotics	2016	16

**33. Teaching methods adopted to improve student learning**

- ✓ NPTEL videos on all relevant subjects accessible to students
- ✓ Tutorial classes are conducted to improve slow learners
- ✓ Students are taken to laboratory for improving their practical knowledge
- ✓ Group discussions / Role play / Case studies Screen casting and other innovative teaching techniques are adopted.
- ✓ Seminars on emerging areas by students.
- ✓ In the hostel, night classes has been scheduled from 6 am to 8 am both in the men's and women's hostel
- ✓ Archives of online and e-learning resources
- ✓ Students are motivated through ranking system for every unit tests
- ✓ Answer Keys and Lesson Plans are distributed to students

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities.**

<b>S.No</b>	<b>Type of activities</b>	<b>No of Students Participated</b>
1	NSS camp	5
2	Tree Plantation(Green Club)	8
3	Renewable Energy Resources Programme	15
4	Blood Donation camp	10

**35. SWOC analysis of the department and Future plans**

**Strength**

- ✓ Well qualified, dedicated and experienced faculty members.
- ✓ Teaching Learning Process implemented through liberal and judicious use of innovative teaching techniques.
- ✓ Availability of 320 NPTEL video files and web course of capacity 3.5 TB available for faculty & study reference.
- ✓ Effective guidance and motivation for students through Career Guidance Cell.
- ✓ Personal care for students is taken through mentoring and counseling.

**Weakness**

- ✓ Faculties are to be involved in active research
- ✓ Only a few faculty have publications in refereed, impact factor journals

- ✓ More involvement in sponsored Research projects
- ✓ More number of Revenue based consultancy works to be attempted by the faculty

### **Opportunities**

- ✓ To introduce job oriented augmentation courses on emerging areas with a view to improve employability

### **Challenges**

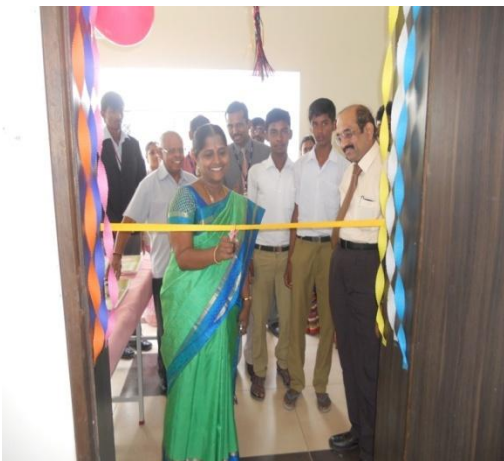
- ✓ Producing more University Ranks
- ✓ Placing students in leading Industries
- ✓ To improve University results on par with top-notch institutions.
- ✓ Attracting highly meritorious students with high aggregate marks

### **Future plans**

- ✓ To become a renowned School of Automation with state of art laboratory facilities.
- ✓ To attain Centre of excellence status in Solar Power, Robotics and Automation.
- ✓ To have academic and research tie-ups with leading research labs and reputed industries









# **EVALUATIVE REPORT OF SCIENCE AND HUMANITIES**

## Evaluative Report of Science and Humanities

1. Name of the department : SCIENCE AND HUMANITIES

2. Year of Establishment : 2008

3. Name of Programmes / Courses Offered:

Courses	Name Of The Programme	Year Of Establishment
B.E	CSE, EEE, ECE, IT, Mechanical, Civil & Mechatronics Engineering	2008
M.E	CSE, VLSI, PED & ED	2013

4. Names of Interdisciplinary courses and the departments / units Involved:

S.No	Interdisciplinary Course	Department Involved
1	Engineering Graphics	Mechanical Engineering
2	Computer Programming	Computer Science and Engineering
3	Electronic Devices	EEE and ECE
4	Circuit Theory	EEE and ECE
5	Digital Principles and system design	ECE and CSE
6	Programming and Data Structure	ECE and CSE

5. Annual / Semester/ Choice Based Credit System (programme wise):

Name Of The Programme	Annual / Semester / Choice Based System
BE	Semester Based Credit System
ME	Semester Based Credit System

**6. Participation of the department in the courses offered by other departments:**

S.No	Programme	Subject Name	Service To
1	B.E.	Transforms and Partial Differential Equations	II YEAR - CSE, EEE, ECE, IT Mechanical, Civil & Mechatronics
2	B.E.	Probability and Queuing Theory	II – CSE & IT
3	B.E.	Numerical methods	II – EEE & CIVIL
4	B.E.	Probability and Random Processes	II ECE
5	B.E.	Statistics and Numerical Methods	II – Mechanical & MCT
6	B.E.	Discrete Mathematics	II - CSE
7	B.E.	Numerical methods	III – CSE & IT
8	M.E.	Applied Probability and Statistics	I – CSE
9	M.E.	Applied Mathematics for Electrical Engineers	I - EEE
10	M.E.	Applied Mathematics for Communication Engineers	I - ECE
11	M.E.	Advanced Numerical Methods	I - Mechanical
12	B.E.	Environmental Science	II –CSE, ECE, EEE & MECH III-MECH

**7. Courses in collaboration with other universities, industries, foreign institutions etc:**

S.No	Name Of The Course	Collabrative University/Industries
1	Nil	Nil

**8. Details of Courses / Programmes discontinued (if any) with reasons: NIL****9. Number of Teaching Posts (UG & PG)**

DESIGNATION	SANCTIONED	FILLED
Professor	4	3
Associate Professor	8	1
Assistant Professor	24	26

**10 .Faculty Profile with name , qualification , designation , specialization (D.SC/D.Litt/PH.D/M.Phil etc.):**

For UG &amp; PG

S. No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Mr.S.Sankarappan	M.Sc., M.Phil.	Professor	Applied Mathematics	38	Nil
2	Mr.K.Rangasamy	M.Sc., M.Phil.	Professor	Applied Mathematics	44	Nil
3	Ms.E.L.Mary Tency	M.Sc., M.Phil., PGDOR.	Assistant Professor	Topology	4.0	Nil
4	Ms.A.Thamilpriya	M.Sc., M.Phil.,	Assistant Professor	Topology	4.0	Nil
5	Ms.R.Vairamani	M.Sc., M.Phil., B.Ed	Assistant Professor	Matrix Theory	5.3	Nil
6	Mr.D.Aravindh	M.Sc., M.Phil., (P.hD)	Assistant Professor	Networked Control System	9.5	Nil
7	Ms.A.Sathyakala	M.Sc., M.Phil.,	Assistant Professor	Topology	8.0	Nil

8	Ms.D.Bhavani Gokila	M.Sc., B.Ed., M.Phil.,	Assistant Professor	Intuitionistic Fuzzy	6.2	Nil
9	Ms.M.Sangeetha	M.Sc., M.Phil.,	Assistant Professor	Topology	2.0	Nil
10	Mr.P.Karthick	M.Sc., M.Phil.,	Assistant Professor	Fuzzy Logic	2.0	Nil
11	Ms.C.Pavithra	M.Sc M.Phil	Assistant Professor	Fluid Dynamics	3.0	Nil
12	Mrs.K.R.Vijayalakshmi	M.Sc M.Phil	Assistant Professor	Fuzzy	3.2	Nil
13	Ms.Grace Elizabeth Rani	M.Sc M.Phil	Assistant Professor	Fractal Theory	10	Nil
PHYSICS						
14	Dr.D.Nithyaprakash	M.Sc., M.Phil., Ph.D	Assistant Professor	Material Science	9.0	Nil
15	Mr.L.Sasikumar	M.Sc., M.Phil	Assistant Professor	Material Science	4.4	Nil
16	Dr. T. Elangovan	M.Sc., M.Phil., Ph.D	Assistant Professor	Material Science	0.4	Nil
17	Mr.R.Thangarasu	M.Sc., M.Phil	Assistant Professor	Material Science	0.4	Nil
18	Ms.V.K.Sethulakshmi	M.Sc., M.Phil	Assistant Professor	Thin films	6.0	Nil

19	Mr.M.Udayakumar	M.Sc., M.Phil	Assistant Professor	Material Science	0.4	Nil
CHEMISTRY						
20	Mr.S.Gopu	M.Sc., M.Phil	Professor	Inorganic Chemistry	43	Nil
21	Mr.C.Magesh	M.Sc., M.Phil (P.hD)	Associate Professor	Polymer Chemistry	14	Nil
22	Mr.V.Prabhu	M.Sc., M.Phil	Assistant Professor	Solid State Chemistry	5.0	Nil
23	Mr.M.Dinesh kumar	M.Sc., M.Phil (P.hD)	Assistant Professor	Organic Chemistry	2.0	Nil
24	Ms.K.Gnanapriya	M.Sc., M.Phil	Assistant Professor	Organic Chemistry	7.0	Nil
ENGLISH						
25	Ms.R. Subbulakshmi	M.A., M.Ed	Assistant Professor	English	28	Nil
26	Mr. V. Mani	M.A., M.Phil	Assistant Professor	English	36	Nil
27	Ms.T. Sowbarnika	M.A., M.Phil	Assistant Professor	English	5.0	Nil

28	Ms.S. Praisey Angelica	M.A., M.Phil	Assistant Professor	English	4.0	Nil
29	Ms.Syed Ali Fathima	M.A.,	Assistant Professor	English	2.0	Nil
30	Ms.V.K.Vasanthi	M.A., MPhil	Assistant Professor	English	-	Nil

**11. List of senior visiting faculty** : NIL

**12. Percentage of lectures delivered and practical classes handles (programme wise) by temporary faculty** : NIL

**13. Student – Teacher ratio (programme wise):**

Programme		Student – Teacher Ratio
UG	BE	15:1
PG	ME	14:1

**14. No. of academic support staff (technical) and administrative staff sanctioned and filled:**

No of support staff (technical) : 2  
No. of administrative staff : 2

**15. Qualification of teaching faculty with D.SC./D.Litt/Ph.D/M.Phil/PG:**

S.No	Qualification	Number Of Teaching Faculty
1	Ph.D	2
2	Pursuing Ph.D	3
3	PG	25

**16. No. of faculty with ongoing projects from:**

i) National : NIL  
j) International : NIL

**17. Departmental projects funded by DST-FIST; UGC, DBT , ICSSR , etc and total grants received:** :NIL

**18. Research Centre / facility recognized by the University** : NIL

**19. Publications:**

**a) Publication per faculty**

<b>Faculty Name</b>	<b>Total Number Of Peer Reviewed Journals</b>
A.Sathyakala	4
E.L.Mary Tency	1
D.Aravindh	2
Dr.D.Nithyaprakash	8
L.Sasikumar	2

**d) Publication per student: NIL**

Number of publications listed in International Database (For Eg: Web of science, scopus, Humanities International complete, Dare Database- International Social Directory, EBSCO host, etc.):

Monographs : NIL

Chapter in Book : NIL

Books edited : NIL

Books with ISBN/ISSN numbers :

<b>S.No.</b>	<b>Author</b>	<b>Name of the Book</b>	<b>ISBN No.</b>	<b>Publisher</b>
1	Mr.S.Sankarappan HOD, Department of Mathematics	Engineering Mathematics	81-8209- 055-5	Vijay Nicole Imprints Pvt. Ltd.
2		Engineering Mathematics for Third semester	81-259- 1471-4	Vikas Publishing House pvt.ltd.
3		Differential Equations and Laplace Transforms	81-8209- 0806	Vijay Nicole Imprints Pvt. Ltd.

4		Vector Calculus, Fourier series and Fourier Transforms	81-8209-109-8	Vijay Nicole Imprints Pvt. Ltd.
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Citation Index : NIL

SNIP : NIL

SJR : NIL

S.No	Name of the Faculty	Journals Published	Publisher	Impact factor
1	Mrs.A.Sathyakala	Somesequance space with Musielak-orlicz Function	IJOSE	2.237
		Generalized Difference sequence Space On Seminormed Space By Orlicz Function		
		The sequence space on semi normed spaces		
		Some new sequence on seminormed spaces of orlicz function		
2	Mrs.E.L.Mary Tency	(gs)* closed sets in bitopological spaces	IJOSE	2.237
3	Mr.D.Aravindh	Reliable Dissipative Sampled Data Control for Uncertain Systems with Non-linear fault Input	Journal of Computational and non-linear dynamics	1.104
		Dissipative Robust reliable Sampled data control for T-S Fuzzy logic systems with non-linear actuator fault	Asian Journal of research in Science and Humanities	0.598

4	Dr.D.Nithyaprakash	Transport properties of thermally evaporated In <sub>2</sub> Se <sub>3</sub> Thin films	Surface Review and Letters-world scientific	1.03
		Effect of substrate temperature on structural, optical and thermal properties of chemically sprayed ZnS thin films	JOAM	0.429
		The Effect of annealing Temperature on the structural and optical properties of In <sub>2</sub> Se <sub>3</sub> Thin films	OAM-RC	0.443
		Hybrid solar cell based on blending of organic and inorganic materials – An overview	Renewable and Sustainable Energy Reviews-Elsevier	5.510
		NLO properties of SnS nanoparticles by precipitation method	OAM-RC <sub>2</sub>	0.443
		Study of optical, dielectric and optoelectronic properties of dodecylbenzene sulfonic acid doped polypyrrole	<u>Optik</u> -Elsevier	0.769

		The study of optical, dielectric and optoelectronic properties of dodecylbenzene sulfonic acid doped polyaniline	<u>Optik-Elsevier</u>	0.769
		Transport Properties of CdS Quantum Dots By Chemical Precipitation Method	JOAM	0.54
5	Mr.L.Sasikumar	Study of optical, dielectric and optoelectronic properties of dodecylbenzene sulfonic acid doped polypyrrole	<u>Optik-Elsevier</u>	0.769
		The study of optical, dielectric and optoelectronic properties of dodecylbenzene sulfonic acid doped polyaniline	<u>Optik-Elsevier</u>	0.769

H-index

: NIL

**20. Areas of consultancy and income generated**

: NIL

**21. Faculty as members in**

- ✓ National committees : NIL
- ✓ International Committees : NIL
- ✓ Editorial Boards : NIL

NAME OF FACULTY	MEMBERSHIP / COMMITTEE
D.Aravindh	Indian Society For Technical Education (ISTE)

**22. Student projects:**

- g) Percentage of students who have done in-house projects including inter departmental / programme : NIL

- h) Percentage of students place for projects in organizations outside the institutions i.e. In research laboratories /Industry/other agencies

**23. Awards / Recognitions received by faculty members: NIL**

**Student Awards: NIL**

**24. List of eminent academicians and scientist / visitors to the department:**

NIL

**25. Seminars/Conferences /Workshops organized & source of funding:**

NIL

**26. Student Profile Programme / Course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
BE(2010-2011Batch)	Anna University Single Window System	308	193	115	59.53(I) 54.65(II)
BE(2011-2012 Batch)		388	272	116	28(I) 21(II)
BE(2012-2013 Batch)		311	223	88	34(I) 48.97(II)
BE(2013-2014 Batch)		364	312	52	21.14(I) 35.14(II)
BE(2014-2015Batch)		215	189	26	27.18(I) 23.30(II)

**27. Diversity of Students:**

Batch	% of students from the same state	% of students from other states	% of students from abroad
BE(2010-2011)	77.6	22.4	-
BE(2011-2012 )	82.22	17.78	-
BE(2012-2013 )	84.6	15.4	-
BE(2013-2014 )	79.12	20.88	-
BE(2014-2015 )	63.26	36.74	-

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

**Total number of students : NOT APPLICABLE**

**29. Student progression : NOT APPLICABLE**

**30. Details of Infrastructural Facilities:****a) Department Library**

No. of Books/Monographs	187+62+107=356
No. of journals	NIL
No. of project reports	NIL

**b) Internet Facilities for staff and students**

- ✓ 12 systems with internet bandwidth of 100 Mbps
- ✓ Wi-Fi enabled campus

**c) Classroom with ICT facility**

- ✓ Room with 60 seating capacity, CPU and LCD projector and multimedia kits OHP.

**d) Laboratories**

<b>S. NO</b>	<b>NAME OF THE LABORATORY</b>	<b>ROOM NO.</b>	<b>COST OF THE LAB (RUPEES)</b>
1	PHYSICS LABORATORY	A.115	5,27,374
2	CHEMISTRY LABORATORY	A.113	3,23,180
3	COMMUNICATION LAB	A.112	8,06,039

**31. Number of Students receiving financial assistance from College, University, government or other agencies:**

<b>S.No.</b>	<b>Year</b>	<b>Number of Students Receiving Financial Services</b>	<b>Name of the Funding Agency</b>
1	2011-2012	14	Govt (Adhidraavidar Welfare Fund)
2	2012-2013	19	Govt (Adhidraavidar Welfare Fund)
3	2013-2014	25	Govt (Adhidraavidar Welfare Fund)
4	2014-2015	11	Govt (Adhidraavidar Welfare Fund)

**32. Details on student enrichment programmes (special lectures / workshops/ seminar) with external experts:**

<b>S.No.</b>	<b>Name of the seminar / conference /workshops conducted</b>	<b>Date</b>	<b>Chief Guest</b>
1	Inauguration Of Mass Club	29.3.12	Dr. (Mrs) I.S. Parveen Sultana, Public Speaker, Prof.Dept Of Tamil,Jbas Collge For Women Chennai
2	Inter Departmental Techno Cultural Fest -Mass 2k15	11.03.15	Mrs.Shanthi Thangavelu, Correspondent, PPG

			Group Of Insitution
3	District Level Interschool Techno Fest- Mass 2k15	8.10.15	Dr. L.P. Thangavelu, Chairman, PPG Group Of Insitution
4	Inter Departmental Techno Cultural Fest -Mass 2k16	23.03.16	Dr. L.P. Thangavelu, Chairman, PPG Group Of Insitution
5	Inauguration Of Humour Club	04.09.14	Mr.S.T.Sundaresan My Promo Videos Private Limited

### **33. Teaching methods adopted to improve student learning**

- ✓ Chalk and talk method
- ✓ Multimedia and OHP presentation
- ✓ Tutorial Hours engaged by two faculty members
- ✓ In-plant and Internship Training
- ✓ Assignments
- ✓ Provision to access NPTEL videos

### **34. Participation in Institutional Social Responsibility (ISR) and Extension activities**

NIL

### **35. SWOC analysis of the department and Future plans**

#### **Strength:**

- ✓ Dedicated faculty members with team work.
- ✓ Good Academic results
- ✓ Well Equipped Labs

#### **Weakness:**

- ✓ No industrial research collaboration
- ✓ Less number of publications in journals.
- ✓ The standard of student's admission needs to be improved.

- ✓ Lack of recognized supervisors to guide Ph.D. scholars in the College

**Opportunities:**

- ✓ Academic and industry collaboration
- ✓ Focusing to form a research centre
- ✓ Involvement in interdisciplinary research project
- ✓ Training facilities to build their own research lab

**Challenges:**

- ✓ Improving the communication skills of the students from rural areas with diverse backgrounds
- ✓ To offer consultancy to the industries.
- ✓ Research collaboration with other departments

**Future Plan:**

- ✓ To make our department as a R & D centre.
- ✓ To motivate the faculty to get more funding projects from various funding agencies.
- ✓ To encourage the faculty to publish more number of research papers in the referred journals (SCI, Scopus, SCI mago, impact factor journals) plan to conduct workshop and conferences at National and International levels.









# **AICTE APPROVAL COPY**



**All India Council for Technical Education**  
 (A Statutory body under Ministry of HRD, Govt. of India)  
 7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
 PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724163 www.aicte-India.org

F.No. Southern/1-2811289651/2016/EOA

Date: 05-Apr-2016

To,

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

**Sub: Extension of approval for the academic year 2016-17**

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-2811289651
Name of the Institute	PPG INSTITUTE OF TECHNOLOGY	Permanent Id	1-6032491
Name of the Society/Trust	P.PERICHI COUNDER MEMORIAL CHARITABLE TRUST	Institute Address	RAJHAGIRI ROAD, SARAVANAMPATTI, COIMBATORE, COIMBATORE, Tamil Nadu, 641035
Institute Type	Unaided - Private	Society/Trust Address	NO.1, ALAMU NAGAR, SATHY MAIN ROAD, COIMBATORE 7 641 012,CITY,COIMBATORE,Tamil Nadu,641012

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

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2811289651			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIC/FN/ Girl quota Approval status	Function- Collaboration/Twinning Program Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA

**ATTESTED**

*[Handwritten Signature]*

Application Number: 1-2811289651  
 Note: This is a Computer generated Report.No signature is required.  
 Printed By : ae3110151



**PRINCIPAL**  
**PPG Institute of Technology**  
**Sathy Road, Saravanampatti Post,**  
**Coimbatore - 641 035,**  
**Tamil Nadu, INDIA**

Page 1 of 3  
 Letter Printed On:16 April 2016



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)  
7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ENGINEERING DESIGN	FULL TIME	Anna University, Chennai	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER ELECTRONICS AND DRIVES	FULL TIME	Anna University, Chennai	24	24	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	VLSI	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND COMMUNICATIONS ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHATRONICS	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	2nd Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA

**ATTESTED**



*[Signature]*  
**PRINCIPAL**

**PPG Institute of Technology**  
Sathy Road, Saravanampatti Post,  
Coimbatore - 641 035,  
Tamil Nadu, INDIA

Application Number: 1-2811289951  
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All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

The above mentioned approval is subject to the condition that PPG INSTITUTE OF TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

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

Dr. Avinash S Pant  
Vice - Chairman, AICTE

Copy to:

1. The Regional Officer,  
All India Council for Technical Education  
Shastri Bhawan 26, Haddows Road  
Chennai - 600 006, Tamil Nadu
2. The Director Of Technical Education,  
Tamil Nadu
3. The Registrar,  
Anna University, Chennai
4. The Principal / Director,  
PPG INSTITUTE OF TECHNOLOGY  
RATHNAGIRI ROAD, SARAVANAMPATTI, COIMBATORE,  
COIMBATORE, COIMBATORE,  
Tamil Nadu, 641035
5. The Secretary / Chairman,  
P.PERICHI COUNDER MEMORIAL CHARITABLE TRUST  
NO.1, ALAMU NAGAR, SATHY MAIN ROAD,  
COIMBATORE ? 641 012,  
CITY, COIMBATORE,  
Tamil Nadu, 641012
6. Guard File(AICTE)

ATTESTED

PRINCIPAL  
PPG Institute of Technology  
Sathy Road, Saravanampatti Post,  
Coimbatore - 641 035,  
Tamil Nadu, INDIA



Application Number: 1-2811289651  
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Page 3 of 3  
Letter Printed On: 16 April 2016

**ANNA UNIVERSITY AFFILIATION  
APPROVAL COPY**



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

Phone : (O) 22352161, 22357004

Fax : 91-44-2235 1956

Gram : ANNATECH

E-mail : registrar@annauniv.edu

REGISTRAR

Lr No. 02 /AFFLN/CAI//CBE/AU/2016-17/7125

Date: 13-05-2016

To

The Principal,  
PPG Institute of Technology, NH-209, Sathy Road,  
Saravanampatty, Coimbatore-641035

Sir,

Sub: AU - AFFILIATION - Provisional Affiliation for the existing course(s) / New course(s) / variation in intake - U.G. / P.G. for the academic year 2016-17 Granted - Reg.

- Ref: 1. Your application for affiliation for the academic year 2016-17  
2. AICTE Approval for the academic year 2016-17.

I am to inform that under the provisions of Section 7.6.1 of the Statutes for affiliation of Anna University, Chennai, **Provisional Affiliation** for the continuation of the existing course(s) / new course(s) / variation in intake in the existing course(s) is granted for the following U.G / P.G. courses with the sanctioned intake mentioned against each course for the academic year 2016-17 at PPG Institute of Technology, NH-209, Sathy Road, Saravanampatty, Coimbatore-641035.

Sl. No.	Degree	Course(s)	Sanctioned Intake	
			2015-16	2016-17
1	B.E.	Civil Engineering	120	120
2	B.E.	Computer Science and Engineering	60	60
3	B.E.	Electrical and Electronics Engineering	60	60
4	B.E.	Electronics and Communication Engineering	120	120
5	B.E.	Mechanical Engineering	120	120
6	B.E.	Mechatronics Engineering	60	60
7	M.E.	Computer Science and Engineering	18	18
8	M.E.	Engineering Design	24	24
9	M.E.	Power Electronics and Drives	24	24
10	M.E.	VLSI Design	18	18

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

- Production of Originals of AICTE / COA / DGS approval and all other related documents for verification, whenever demanded by the University.
- Verification by a Committee towards the fulfillment of the conditions mentioned above and the continued fulfillment of the requirements for the above-mentioned course(s) as per the norms and standards of AICTE / University and the laboratory requirements as per the curricula and syllabi of Anna University, Chennai for the above courses. In the event of any violation/infringement of the above said conditions and / or the provisions of Anna University, Chennai Act / Statutes / Regulations, AICTE Act, norms & standards / regulations / guidelines or any other law being in force, suitable action including suspension / withdrawal of affiliation of course(s) may be initiated against the college.
- Students should not be admitted for the above course(s) for the next academic year without obtaining

the order of continuation of provisional affiliation for the next academic year from the University.

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



Yours sincerely,

*M. J. 13/5*  
*13/5*  
*13/17/16*  
REGISTRAR  
REGISTRAR  
ANNA UNIVERSITY  
CHENNAI-600 025

Copy to:

1. The Director of Technical Education, DOTE campus, Chennai - 600 025.
2. The Regional Officer, Southern Regional Office, AICTE, 26, Haddows Road, Shastrri Bhawan, Chennai 600 006.
3. Master file.

PPG INSTITUTE OF TECHNOLOGY	
DESPATCH SECTION - INWARD	
INWARD ENTRY No	27582
DATE	2/6/16
SECTION I/C SIGN	<i>[Signature]</i>
PRINCIPAL	<i>[Signature]</i>
MARKED TO	AC