SELF STUDY REPORT

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)
Bangalore, India

SREE SAKTHI ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Affilited to Anna University, Chennai)
899/1 & 898/2, Bettathapuram,
Karamadai, Coimbatore - 641 104.
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Executive Summary and SWOC Analysis

Sree Sakthi Engineering College was founded by Sree Sakthi Charitable trust in the year 2010 and it is being promoted by Sree Sakthi Equipment Company Ltd., Coimbatore.

The College is located at Karamadai, 25 Kms away from Coimbatore on the Ooty to Coimbatore National Highways. The College is located in a natural environment. The Institution offers the following five branches of Under Graduation and one branch of Post Graduation:

Under Graduation Courses

- Civil Engineering

- Mechanical Engineering

- Electrical & Electronics Engineering

- Electronics and Communication Engineering

- Computer Science and Engineering

Post Graduation Course

- Master of Engineering (VLSI Design)

The Institute is approved by All India Council for Technical Education (AICTE), New Delhi and is affiliated to Anna University, Chennai. The Institute has ISO 9001:2008 certification by TUV NORD.

Shri. N.Dharmalingam, Chairman of the Institution also the chairman of Sree Sakthi Equipments Company, Coimbatore, Tamil Nadu, India wish to start an Engineering educational institution for the benefit of the forthcoming generation to gain such valid engineering education. Dr. S.Karthikeyan, Correspondent of the Institution and Managing Director of Sree Sakthi Equipment Company, Coimbatore, Tamil Nadu, India, has specializes in the manufacture of foundry equipments and integrated sand plants supplying complete solution for Foundry in India and Globe. With his rich experience as an Engineer his atmost aim is to make the students not only the graduate but an Engineer.

Board of Management of the Institution:

Chairman	-	Shri.N. Dharmalingam**.**
Correspondent	-	Dr.S. Karthikeyan.
Secretary	-	Smt.K. Punithavalli.
Trustees	-	Shri. S. Murugan.
		Smt.D. Savithri.
Principal	-	Dr. V. Vel Murugan.

The SWOC Analysis of the College is presented below:-

Strengths:

- Committed management and well qualified staff.
- Well designed teaching, learning and evaluation process is in place.
- The college provides state-of-the-art infrastructural facilities, well lighted and airy class rooms, fully equipped labs with latest equipments.
- Wi-Fi Enabled campus.
- Library stocked with wide range of reference books, text books, journals, magazines, online resources, back issues and digital library.
- On a consistent basis more than 70 % of our students are graduated every year.
- Effective 'Tutor-Ward system to help and motivate the students is in place.
- College is certified with ISO 9001:2008 by TUV India Private Limited.
- Our College encourages work life balance of the staff; hence attrition ratio is very less.
- The college encourages the faculty members to organize and participate in seminars, workshops, conferences and faculty development programmes to strengthen existing knowledge base.
- A wide range of extracurricular activities aimed at the all personality development of students
- Performance feedback is collected from all stakeholders to improve the teaching learning process.
- A separate placement and training cell to groom the students to be industry ready through training on communication, soft skills and special technical training.
- MoUs with leading industries / institutes have been signed for the benefit of the students and faculty to upgrade the knowledge and inculcate the research culture.

- Bridge courses are taught to bridge the industry institute gap.
- The students are motivated to participate in in-plant training, internships, industrial projects, paper presentation, workshops and seminars.
- Social awareness and social responsibility are instilled in the minds of the students through a number of extension activities.
- Eco – friendly and harmonious working environment.

Weakness:

- Affiliated to Anna university, Chennai and hence limitation in enhancing the curriculum.
- Majority of the students are from rural areas, so communication skill of the students‟ needs to improve.
- Funded projects and consultancy activities need more concentration.
- Library to be expanded to cater to growing research needs.
- Faculty members with industrial exposure / experience are less in number.

Opportunities:

- To introduce new programmes to meet the ever emerging technology.
- Faculty retention being high scope for research work.
- Introduce Innovative add-on programs to meet the requirement of the students.
- Possibility of increasing in-plant training, internships and industry projects for the students.

Challenges:

- Unpredictable and declining quality of students is a hurdle in achieving good academic performance.
- Difficulties in obtaining funded projects.
- Declining appeal for engineering education.
- Uncertain job market for engineers.

PROFILE OF THE INSTITUTION

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

NAME:	**SREE SAKTHI ENGINEERING COLLEGE**	
ADDRESS:	899/1 & 898/2, Karamadai,	
CITY: Coimbatore	PIN: 641104	STATE: Tamilnadu
WEBSITE:	www.sreesakthi.edu.in	

2. **For Communication:**

Designation	Name	Tel	Mobile	Fax	Email
Principal	Dr. V.VeL Murugan	04254 295000, 275477	92445 02277	04254 272495	Principal @ sreesakthi.edu.in info @ sreesakthi.edu.in
Steering Committee Co-ordinator	Mrs. A. Sridevi	04254 295000, 275477	94431 67715	04254 272495	sridevi.ec @ sreesakthi.edu.in

3. **Status of the Institution:**

Affiliated College	✓
Constituent College	x
Any other (specify)	x

4. Type of Institution:

    a. By Gender

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

    b. By Shift

        i. Regular   ✓
        ii. Day   x
        iii. Evening   x

5. It is a recognized minority institution?

    Yes   x
    No   ✓

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

6. Sources of funding:

    Government   x
    Grant-in-aid   x
    Self-financing   ✓
    Any other   x

7. a. Date of establishment of the college: 09/07/2010

    b. University to which the college is affiliated /or which governs the college (If it is a constituent college): Anna University, Chennai

    c. Details of UGC recognition:

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

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

Under Section /clause	Recognition/Approval details Institution/Department Programme	Day , Month and Year (dd-mm-yyyy)	Validity	Remarks
i.	AICTE	07.04.2015	1 Year	EOA

(Enclose the recognition/approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes [✔]   No [x]

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

Yes [x]   No [✔]

9. Is the college recognized?

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

Yes [x]   No [✔]

b. for its performance by any other governmental agency?

Yes [x]   No [✔]

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

Location *	Urban
Campus area in sq. mts.	40,600
Built up area in sq. mts.	20,000

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

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/seminar complex with infrastructural facilities** ✓
- **Sports facilities** ✓
    Play ground ✓
    Swimming pool x
    Gymnasium x

- **Hostel**

    - **Boy's hostel**
    i.   Number of hostels 2
    ii.   Number of inmates 535
    iii. Facilities (Mess, Wi-fi facility, ✓
          newspapers (English & Tamil), Protected Water, 24
          Hour Security, Ambulance Cot, DTH connected TV
          and Gym

    - **Girls' hostel**

    iv.   Number of hostels 1
    v.   Number of inmates 142
    vi.   Facilities (Mess, Wi-Fi facility, newspapers ✓
          (English &Tamil), Protected Water, 24 Hour
          Security, Ambulance Cot, DTH connected TV and
          Gym
- **Cafeteria-**
- **Health centre-**

    Health centre staff –

    Qualified doctor   Full time [ ]   Part time [✓]

    Qualified Nurse   Full time [ ]   Part-time [✓]

- Facilities like banking, post office, book shops

    Yes [✓]   No [x]

- Transport facilities to cater to the needs of students and staff-

Yes ✓   No x

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

Sl. No	Programme Level	Name of the Programme / Course	Duration	Entry Qualification	Medium of instruction	Sanctioned / approved Student strength	No. of students admitted
1	Under-Graduate	Civil Engineering	4 Years	12th standard or equivalent with Mathematics, Physics & Chemistry	English	60	44
2		Computer Science and Engineering	4 Years		English	60	50
3		Electronics and Communication Engineering	4 Years		English	120	36
4		Electrical and Electronics Engineering	4 Years		English	60	37
5		Mechanical Engineering	4 Years		English	180	133
6	Post-Graduate	M.E(VLSI Design)	2 Years	Passed an appropriate Under Graduate Degree Examination from recognized University	English	18	0

13. Does the college offer self-financed Programmes?

Yes ✓   No ☒

If yes, how many? 06

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

YES	✓	NO	x	NUMBER	1

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

Faculty	UG	PG
Any Other (Engineering & Technology / Management Studies	B.E. Civil Engineering B.E. Computer Science and Engineering B.E. Electronics and Communication Engineering B.E. Electrical and Electronics Engineering B.E. Mechanical Engineering	M.E. VLSI Design

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com…)

a. Annual System   Nil
b. Semester System   06
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)   Nil

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes ☐ x   No ☐ ✓

19. Does the college offer UG or PG programme in Physical Education?

Yes ☐ x   No ☐ ✓

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

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government *Recruited*	-	-	-	-	-	-	-	-	-	-
Yet to recruit	-	-	-	-	-	-	-	-	-	-
Sanctioned by the Management/society or other authorized bodies Recruited	3	3	1	3	69	53	10	2	2	4
Yet to recruit	0	0	0	0	0	0	0	0	0	0

*M-Male *F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	-

Ph.D.	3	1	1	1	0	0	6
M.Phil.	0	0	0	1	3	27	31
PG	0	0	1	1	68	25	95
Temporary teachers							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-
Part-time teachers							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

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

10

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

Categories	Year 1 (2013-14)		Year 2 (2014-15)		Year 3 (2015-16)		Year 4 (2016-17)	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	45	14	34	14	66	19	95	34
ST	4	1	2	0	1	4	3	0
OBC	211	39	143	53	132	43	132	30
General	19	1	18	6	14	2	4	2
Others	-	-	-	-	-	-	-	-

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	298	0	0	0	298
Students from other states of India	2	0	0	0	2
NRI students	0	0	0	0	0
Foreign students	0	0	0	0	0
Total	300	0	0	0	300

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

UG   0.05%   PG   0 %

26. Unit Cost of Education

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

a) **Including the salary component**   **Rs. 68, 878**

b) **Excluding the salary component**   **Rs. 43, 854**

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

Yes   x   No   ✓

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

1:15 (For B.E) and 1:12 (for ME)

29. Is the college applying for Accreditation?

Cycle1 ✔   Cycle2 ☐   Cycle3 ☐   Cycle4 ☐

Re-Assessment: ☐

(Cycle 1refers 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)

Cycle 1:……………… … (Dd/mm/yyyy) Accreditation Outcome/Result….

Cycle 2:……………… … (Dd/mm/yyyy) Accreditation Outcome/Result….

Cycle 3:……………… … (Dd/mm/yyyy) Accreditation Outcome/Result….

* Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.

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

233

32. **Number of teaching days during the last academic year (Teaching days means days on which lectures were engaged excluding the examination days)**

    | 182 |

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

    06.01.2017

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

    AQAR (i) ……NA …… (dd/mm/yyyy)

    AQAR (ii) ……………… (dd/mm/yyyy)

    AQAR (iii) ………………. (dd/mm/yyyy)

    AQAR (iv) ……………… (dd/mm/yyyy)

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

    ISO 9001: 2008 Certification by TUV NORD

CRITERION ICURRICULAR ASPECTS

1.1. CURRICULAM 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, staffs and other stake holders.

SreeSakthi Engineering College, established in the year 2010, has taken Cognizance of major changes in the global developments, in technological skills requirements of the industry and society at large. The vision and mission as described below, has the reflection to meet the growing challenges of the industry.

Vision

"To be recognized as an international leader in engineering education, research and the application of knowledge to benefit society globally."

Mission

"To develop high quality technical education and personnel with a sound footing on basic engineering principles, technical and managerial skills, innovative research capabilities, and exemplary professional conduct to lead and to use technology for the progress of mankind, adapting themselves to changing technological environment with the highest ethical values as the inner strength."

Quality Goals and Objectives:

- To grow to be a Global Institution.
- All time to do our best towards excellent infrastructure and facilities.
- To practice ethical values in day to day activities.
- To conduct training programs for developing soft skills and corporate etiquettesfor students and faculty.
- To organize short duration courses, conferences and seminars for faculty and

students on latest technical developments.

- To achieve and maintain excellence in student performance in:
  - Academic results.
  - Extra-curricular activities.
  - Co-curricular activities.
  - Social work
  - Placement
- Continual improvement to achieve satisfaction for all the stakeholders.

Vision and Mission of the Institution are communicated to the stakeholders through the following ways:

- Displayed at all important places in the campus like all departments, main library, hostel buildings, and college office.
- Displayed on the Institute Website.
- Conveyed during various Programs.
- Published regularly in Institute Prospectus, Academic Diary, and News letter.

1.1.2. Does the institution develop and deploy action plans for effective implementationof the curriculum? Give details of the process and substantiate through specific examples(s).

The institution develops and deploys action plans for effective implementation of the curriculum in the following ways

- Being an affiliated institute, the curriculum prescribed and academic schedule issued by Anna University, Chennai, is strictly followed.
- TheIQAC constituted in the college prepares a plan for bridge course for fresh entrants to the institution, quality teaching learning process, placement

and research.

- To bridge the knowledge gap in the area of Mathematics and English for Tamil medium students, bridge course is regularly conducted for the fresh entrants.

Table 1.1 Details of the Bridge Course

S.NO	DEPARTMENT	SUBJECTS TAUGHT	TARGET GROUP
1	MATHEMATICS	• Matrices, Vector Algebra • Series and Sequences, Analytical geometry • Trigonometry, Differential Equations	Fresh Entrants
2	ENGLISH	• Listening, Speaking, Reading and writing Skills • Grammar and pronunciation • Vocabulary building using language in social contexts	Fresh Entrants

- Prior to the start of each semester, the Principal organizes Heads of the Department meeting to plan Academic Calendar. The Academic Diary including the Academic Calendar is issued to every faculty member.
- Academic calendar at the college level is prepared semester wise to maintain academic events such as internal assessment tests, coaching classes, class committee meeting, student's association activities like guest lectures, seminars, workshops, symposium and other co and extracurricular activities as per the AnnaUniversity academic schedule.

- According to the faculty members experience, willingness and competency the subjects are allotted.

- The time table for each class, laboratory and individual faculty is prepared. A log book maintained by every faculty member contains student's attendance, internal assessment marks and syllabus covered according to the lesson plan.

- Based on the schedule given in the academic calendar, lesson plan, question bank and laboratory manuals are prepared in advance.

- Faculty members deliver the lectures, conduct tutorials, daily tests and internal assessment tests.

- Special coaching class is conducted beyond the regular class hours for slow learners.

- Other than curriculum, periods are allotted for placement, Library, Yoga and seminar to develop students technical and presentation skill.

- By providing on-duty, faculty members are encouraged to attend seminars, workshops and conferences.

- Faculty members who have secured 100% results in the Anna University theory examinations are honored.

- Prior to the commencement of classes, individual staff members will submit a course file for theory subjects consists of following information.

  o Course Objective and Syllabus.
  o Course material (soft / hard copy)
  o Lesson plan and record of course delivery along with details of teaching method and teaching aids.
  o Question papers of the Internal Assessment.
  o Question banks.

- o University question papers.
- o To record attendance for theory classes which includes total lectures planned.
- o Summary sheet indicating continuous assessment report of each student.
- o Plan of assignment/tutorial work, Record of attendance with performance evaluation.
- The course file for practical subjects contains the following information:
  - o Course Objective and Course Syllabus.
  - o Laboratory manual.
  - o List of Experiments.
  - o Planning for cycle of experiments.
  - o Based on these, Continuous assessment for each experiment is planned.
- All the above mentioned records are assessed by the class advisor and concerned Heads of Department internally. These records are audited twice a semester by the IQAC cell to identify areas of improvement.

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 curriculum prescribed by the Anna University is effectively translated to the students with the support of University and institution as follows:

- The curriculum is well transacted to the students after serious preparation as well as critical thought by the teachers concerned.
- Being an affiliated institution, we are always updated with the latest norms and guide lines laid down by the affiliating university.
- The institution encourages the faculty to keep themselves updated by making them to attend refresher courses, orientation programs and workshops to

gain the knowledge and also the teaching aptitude of the teachers updated.

Following procedural and practical support is provided by the institution for effective translation of the curriculum and improving teaching practices.

- **Infrastructural support:** The institution provides excellent infrastructural support both in terms of classrooms, labs and other amenities like faculty cabins etc. Two Class rooms in each department is equipped with LCD projection systems, USB ports for laptop connectivity, audio systems and green board. These facilities enhance lecture delivery and effective communication.

- **Computing facilities:** The institution has provided internet connection to all the computers in the campus. Each department has been provided with computers with internet connectivity and printers. At SSEC, 24x7 operationally secured Wi-Fi facilities plays a vital role in today's campus experience for both teachers and students from which they get in a constant touch with the global network.

- **E-Journals:** The SSEC library has subscribed DELNET (Developing Library Network) provides online e-learning resources to facilitate both students and faculty members in acquiring advance knowledge in the fields of Engineering, Computer Applications and Science and Humanities.

- **Learning centre:** Aplenty of prescribed text books, reference books, General books, technical magazines and recently published books on the subjects are available in SSEC Library. An exclusive digital library with a good number of CD's on various technical topics and internet facility are accessible by all the members of SSEC. This facility helps the faculty members to prepare the lectureeasily and make the students to get an insight of theory and concepts.

- **Administrative support:**The institution approves the budget projected by a particular department. All requirements related to procurement of equipment and components to enhance the quality of labs are readily approved by the administration. Besides this all amenities such as electricity backup, water supply, cleanliness and maintenance of campus is accomplished by the management.

- **Faculty Development Programme:**The university and institution conducts various FDP's from time to time both at institutional and departmental level for upgrading the technical knowledge of faculty members as per recent trends in technology. The faculties are encouraged to attend National and International symposia and conferences and present their research findings.

- **Workshop / Seminars / Guest Lectures:**Workshops are organized by SSEC at regular intervals with subject experts. These workshops empower the participant to directly get in touch with latest technologies which will equip the students to get transition.Frequently organized seminars at SSEC enable the students to gain knowledge, both inside and outside curriculum, so that they can reach out to the society with required competency.SSEC invites subject experts from reputed institutions and organizations to deliver guest lecture for the students. A guest speaker conveys current realistic information and perspective on a subject beyond the syllabi.

Table 1.1: Details of Seminars/ Workshops/ Guest Lectures organized

Date	Dept	Title of the program	Resource Person Details
31/1/2017	EEE	Guest Lecture on Electrical Machines	GD Electricals
27/10/2016	Mech	One day workshop and onsite training on foundary technology	SreeSakthi Equipment, Coimbatore
27/09/2016	EEE	One day workshop on WDS Design	E-Trainers Coimbatore
24/09/2016	S&H	Motivational talk-2016	R. Vijay Kumar
23/09/2016	Mech	Guest Lecture on Latest Trends on Material Technology"	Dr.RamasamySakthivel, Senior Principal Scientist, Department of Advanced Material Tecnology, Bhubaneshwar
10/09/2016	Civil	Guest Lecture on"Stability of Wharves and Jetties in Soft Riverine deposits"	Mr.KanirajShenbaga, (Former Professor) IIT-Delhi
30/08/2016	Civil	Introduction of Geospatial Technologies and its application	Dr.D. Yuvaraj, Research and Dept of Geography, Govt. Arts College, Coimbatore.

24/08/2016	S&H	Guest Lecture Scientia 2016	DrAnbazhagan Vijay. J, Prof in English, Govt College of Technology,CBE
17/08/2016	CSE	Guest Lecture on "Cyber Security"	Mr.Aravind S Venkatachalam, Cofounder & Director of Innoaccel solution Pvt., Ltd.,
16/08/2016	Mech	Guest Lecture on Recent Trends in Production Technology	K. VijayaBaskar, Vice President-GTN Engineering (INDIA)
10/08/2016 & 12/08/2016	ECE	Two days workshop on PCB designing	Mr. P. Goutham Sr.Er., E-Craft. solution
03/08/2016	Civil	Civil Engineering orientation program in advanced construction technology in civil engineering project	Ms. Revathy, Sr. Manager, Tender ECCL Ltd, Chennai
01/08/2016 & 02/08/2016	CSE	Workshop on CORE JAVA	Ganesh Ramasamy, C3TECH, Coimbatore
27/07/2016 & 28/07/2016	CSE	Grid & cloud computing	Mr. RamakrishnanNatarajan White Hat Global Solution, Cbe
23/07/2016	ECE	Guest Lecture on"Integrated Traffic Engineering system"	Mr.Shyam Jude Founder CEO at Analog and Digital Labs, Coimbatore

22/04/2016 & 23/04/2016	ECE	Two days national level workshop on real time embedded systems –back end tools	Dr. N. Kumaresan Anna University, Coimbatore
12/04/2016	Mech	National Level Technical Symposium "MEXANIKIZ-2016"	Mr.S.Sokkalingam, Managing director, Integra automation, Coimbatore & Chennai
07/04/2016	CSE	National Level Technical Symposium ZAPTIREZTA 2K16	Mr.Ramesh Srinivasan, Director – Data Operation, Owler Inc, Coimbatore
02/04/2016	EEE	National conference on innovative trends in engineering & Sciences	Mr.JosephPrayBell, ITC Coimbatore
23/03/2016	S&H	Guest Lecture on "Legal Literacy Class for students"-2016	Hon'bleThiru. M.K. Rafi, B.A., B.L., Chairman/ District Munsif-Cum-Judicial Magistrate Taluk Legal Services Committee, Mettupalayam
22/03/2016 & 23/03/2016	Mech	Workshop on " Non Destructive testing Methodologies and Techniques"	M.Kanakasabapathi, Ndt Qc Engineer, Metal Testing Lab, Chennai

16/03/2016	Civil	National Conference on Modern construction materials and methods	Dr. P. Moorthy Principal Kathir college of Engineering
14/03/2016	ECE	Guest Lecture on "EMBEDDED SYSTEMS"	Mr.P.Muthupandi Founder CEO of VEE Inc.Pvt, Ltd.,
10/03/2016 & 11/03/2016	CSE	Inauguration of APP Developers club and workshop on Mobile application Development lab	Mr.Ramakrishnan nataraja, Founder & CEO of WhiteHat Global Academy, Coimbatore
07/03/2016 & 08/03/2016	EEE	Two days workshop on Energy Auditing	Mr.M.Rameshkumar, Reliable Solutions
05/03/2016	S&H	National science day 2016	Dr. K. Mani Former Professor, PSG Arts and Science College, CBE
18/02/2016	S&H	Guest Lecture on "UnavaeMarunthu-Maruntae Unavu"-2016	K. Sadhasivam Senior Professor Simplified Kundalini Yoga
12/02/2016	ECE	Guest Lecture on "Introduction to Image Processing using LABVIEW"	Mr.S.Muruganandhan- Engineer, Technical Support National Instruments, Bangalore
14/10/2015	ECE	Workshop on handson training in PCP designing	Mr.P.Gowtham

18/09/2015	CSE	Workshop on Open Source Lab	Mr. S. Baskar LinuXpert Systems, Chennai
21/08/2015	EEE	Guest Lecture On Renewable Energy	Er.R.M.Ramanujam CEO-Super LED &Hi-energy systems
22/07/2015 & 13/08/2015	Mech	Five days Workshop on Ansys	At CADD Center
10/08/2015 & 17/08/2015	ECE	Two days national level workshop on mobile servicing	Mr. M. Ranjith Kumar
20/07/2015	EEE	One day workshop on Electronic circuit Design	Mr.N.Krishnaprakash, Tenere Technologies, Coimbatore
20/03/2015	S&H	Guest Lecture on "Motivational Talk".	Dr. N. Suryanarayanan, Retd. Professor, Govt Arts college,Cbe.
18/03/2015	Civil	Guest Lecture on waste water management	Dr. AshwinSiddharth, Assistant Professor, Anna University-Coimbatore.
07/03/2015	Civil	National Conference on Innovative technologies and development in civil engineering.	Dr. R. Manisekar, Senior Scientist, CSIR -Structural Engineering Research Centre.

06/03/2015	S&H	SCIENTIA 2015	Dr K N Venkataramana
25/02/2015	EEE	Raspberry Pi One day National Level Workshop	Mr.Sathishkumar, Propulsion Technologies, Coimbatore
21/02/2015	ECE	National conference on research issues in signal/image processing and communication	Dr.D. Sriram Kumar HOD/ECE NIT Trichy
20/02/2015	CSE	A National level technical symposium	Mr. SakthivelManikandan, Robert Bosch
18/02/2015	ECE	Guest Lecture on "Motivational Speech".	Dr.V.Lakshmiprabha, Principal, Government College of Technology, Coimbatore.
24/01/2015	Civil	One day workshop on Advanced construction techniques in civil engineering projects.	Dr.K.Divakar, Associate Professor, Coimbatore Institute of Tech, Coimbatore. Ms.Revathi, Senior Manager-Tender, Eccl-Ltd, Chennai. Dr.S.Ananda Kumar, Professor, Kongu Engineering College, Perundurai, Erode.

10/10/2014	EEE	One day national level technical symposium	Dr.Rajesh Thambi Scientist "E" DRDO,Cochin.
17/09/2014	ECE	Guest lecturer on "Wireless Communication"	Dr. N.Sathishkumar, Associate Professor, Sri Ramakrishna Engineering College, Coimbatore.
10/09/2014	EEE	Guest Lecture on Power systems operations and control	Dr.S.Jagananthan, Asso. Professor, Dr NGP Institute of Technology
7/09/2014	ECE	Guest lecturer on "MEMS".	Dr. B.Nataraj, Asso. Professor, Sri Ramakrishna Engineering College
27/08/2014	S&H	SCIENTIA 2014	Dr.K. Pradeepkumar, ELITE
20/08/2014	Civil	Youth Stress Management.	Dr. Selvaraj, Associate Professor, Government Arts College Psychology Department, Coimbatore.
13/08/2014	Civil	Advantages of Structure Analysis.	Mr. Saravana Kumar, Professor, Sri Venkateshwara Hi-Tech Engineering College.
13/08/2014	ECE	Guest lecturer on "Wireless OFDM Technology".	Dr. S.P.Vimal , Sri Ramakrishna Engineering College, Coimbatore.
11/08/2014	Mech	Mechanical engineering association	Mr.GaneshJagadeesan, Joint Managing Director, Indo Shell Cast PVT LTD, Coimbatore.

09/08/2014	S&H	Tamil Nadu Science Forum	Mr. VigyanPrasar, ISRO
06/08/2014	Civil	One day workshop on Industrial Expectation & Sustainable Development.	Dr. S.Neelamani, Senior Research Scientist, Kwait Institute Of Scientific Research,Kwait.
			Dr. G.PrinceArulraj, Professor & Dean, Dept of Civil Engg, SNS College of Technology, Coimbatore.
			Dr. R.Anuradha, Associate Professor, SNS College of Technology, Coimbatore.
02/08/2014	ECE	Guest Lecture on "Wireless sensor network".	Dr.Vanathi, Professor, PSG College of Technology, Coimbatore.
30/07/2014 & 31/07/2014	CSE	Workshop on open source lab	Mr.S.Bhaskar, LINUXPERT systems Chennai
28/02/2014 to 01/03/2014	Mech	Two day national level Robotics workshop and Championship Contest 2014-iSENSOBOTZ on Arduino	ARK Techno Solutions & Helios IIT Bombay
14/02/2014	EEE	Guest Lecture on scope of electrical engineering	Dr.Subramanian, Rathinam College of Engineering , Coimbatore

Workshop on " Non Destructive testing Methodologies and Techniques department of
Mechanical Engineering March 2016

Workshop on Mobile Servicing by department ofElectronics and Communication
Engineering Aug 2015

Symposium organized by department of Mechanical Engineering Sep 2013

National Level Robotic workshop organized by department of
Mechanical Engineering March 2014

A National level technical symposium by department of Computer Science
and Engineering Feb 2015

National conference by department of Electronics and Communication
Engineering. Feb 2015

Guest lecture on"Cyber Security" Department of Computer Computer Science and
Engineering Aug 2016

Mr.Aravind S Venkatachalam, Cofounder & Director of Innoaccel solution private
limited

Guest Lecture on Stability of Wharves and Jetties in Soft Riverine deposits-
Mr.Kaniraj Shenbaga, Former Professor IIT-Delhi Sep 2016.

Motivational Talk - Department of Science and Humanities Sep 2016

Guest Lecture on "Legal Literacy Class for students"Department of Science and Humanities -Mar 2016

SCIENTIA Department of Science and Humanities Aug 2016

National Science DayDepartment of Science and HumanitiesMar-2016

Tamil Nadu Science Forum Department of Science and HumanitiesAug-2014

SCIENTIA Department of Science and Humanities Aug-2014

SCIENTIA Department of Science and Humanities Mar-2015

Motivational talk Department of Science and Humanities Mar-2015

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.

The following contributions are made by the institution for effective curriculum delivery and transaction on the curriculum provided by the affiliating university.

- SSEC strives to identify, select, train and develop the faculty for the effective delivery of the curriculum offered by Anna University, Chennai.

- Academic calendar based on the academic schedule prescribed by Anna University, Chennai is prepared.

- After subject allocation, Lesson plan, Lecture notes, internal test question & answer bank and lab manuals are prepared at the beginning of the semester.

- Tutorial classes are conducted for the analytical subjects as per time table.

- After regular working hours special coaching classes are conducted for slow learners.

- The Principal and the Head of the Department monitor the course delivery and syllabus completion periodically.

- Class committee meetings are conducted and student feedbacks reviewed regularly by ISO internal and external audits.ISO 9001:2008 Certification from TUV SUD Germany, to ensure conformity to quality norms.

- Each internal assessment is periodically conducted through centralized examination cell and the student's progress is reported to the parents through letters.

- To bridge the gap between industry and institution,value added courses are organized by the institution apart from the syllabus.

- In order to make the students as successful person in life, skill development programs are arranged.

- To supplement the curricular inputs Guest Lectures, Workshops, Industrial Training and Value Added Programs are organized.

- Wi-Fi enabled campus with facilities like Intranet and Web-portal for easy transaction of curriculum.

- Recruitment of able and qualified faculty that ensures staff-student ratio as per Anna University and AICTE norms.

- At SSEC, all laboratories in various departments are well equipped and periodically updated to enable the students to gain proper practical knowledge on the theory they learn, in-line with Anna University curriculum.

- Accessing online resource related to the curriculum is provided with the high speed internet.

- For effective curriculum delivery, each class room is equipped with green board.

- Comfortable and ventilated class rooms are provided to the students.
- As per the Anna university norms well developed laboratory facilities are available.
- Library equipped with digital facility is available for e-journals and e-books. For further details effective course delivery text books, reference books and journals are available at both the levels (National and International).
- The entire campus is provided with uninterrupted power supply and adequate power backup.

1.1.5. How does the institution network and interact with beneficiaries such as industry research bodies and the university in effective operationalisation of the curriculum?

The institution interacts with industry, research bodies and the universities as follows:

- To bridge the gap between the curriculum and industry each department invites technical experts to deliver Guest Lectures and Seminars.
- The Training and Placement Cell maintain 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.
- Students are motivated to participate in Workshops, Symposiums and Conferences conducted by other institutions.
- The institution has signed MOU with many industries such as Vetri Construction, Sree Sakthi Equipment, GTN Engineering, UTL Technologies Ltd, VI Micro systems, AES, C3 Tech, Isquare system, Sunshiv Electronics. The association with the industries through MOU enables the institution to know the requirements of the industry 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.

Memorandum of Understanding

MOU with GTN Engineering, Coimbatore

Training for Equipment Servicing

Lab Development Program

Campus Placement Drive

- 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 implementation of the curriculum.

- **Table 1.2: List of Practical Knowledge training organized by SSEC**

Date	Department	Industry Name and Place	Relevant Subject
23/09/2016		DRDL, Hyderabad	Database Management
28/08/2015		Radio Astronomy Centre, Ooty.	Analog and Digital Communication
28/08/2015		Ace Components, Mysore.	Advanced Computer Architecture
28/08/2015		MPower Global Inc, Bangalore.	Internet Programming

13/09/2014	CSE	Chipsoft Software Systems, Cochin.	Web Technology
26/07/2014		Trans it MPower Labs (P) Ltd, Bangalore.	Open source lab
27/07/2014		Infosys Limited, Mysore.	Software Project Management
28/09/2013		Focuz INFOTECH, Cochin.	Database Management Systems
28/09/2013		India Option Software Private Limited, Cochin.	Software Engineering
27/10/2016	MECH	SreeSakthi equipment company, Coimbatore.	Foundry and production
06/10/2016 to 09/10/2016		Anna Aluminium, Cochin and Sea Blue Ship Yard, Cochin	Ship building
23/08/2016 to 24/08/2016		Sea Blue Ship Yard, Cochin	Ship building
23/08/2016 to 24/08/2016		HMT Machine Tools LTD, Bangalore	Machine Tools
26/08/2015		Wonderla Holidays, Bangalore.	Fluid power system
22/08/2015		Lamina suspension products Ltd. Mangalore.	Material science and vibration

26/08/2014 to 30/08/2014		Wonderla Holidays, Bangalore.	Fluid power system
12/08/2014 to 16/08/2014		Lamina suspension products Ltd. Mangalore.	Material science and vibration
14/08/2014 to 16/08/2014		Lamina suspension products Ltd. Mangalore.	Material science and vibration
19.09.2014		Sri Durga Metal and Alloys (RADO Wheels)	Alloy Wheels
19.09.2014		Ferro Links, Coimbatore	Casting
19.09.2014		Fine Cast industries	Casting
19.09.2014		Impel Machines PVT LTD	Book binding machines
19.09.2014		Premier Plate Fabrications CO	Earth moving Equipments
22/08/2013 to 24/08/2013		M/S Gurucharan Industries, Mangalore	Foundry and production
15/08/2013 to 17/08/2013		HMT Machine Tools LTD, Bangalore	Machine Tools
21/03/2016	EEE	Kundha power station, Ooty.	Power generation
16/09/2016		ISRO, Cochin.	Satellite communication

28/08/2015		ISRO, Cochin.-2016	Satellite communication
21/02/2015		GD electrical Equipments, coimbatore	Electrical Equipments
14/02/2015		Salzer electronics Pvt. Ltd. Coimbatore.	Electronic components manufacturing
14/08/2014		JVS Electronics pvt. Ltd, Bangalore.	IC manufacturing
03/08/2013		Mettur thermal power station, Salem.	Power plant engineering
08/08/2013		Keeranatham substation, Coimbatore.	Power generation
21/09/2013		Vivekanand electrical industries, Bangalore.	PC board manufacturing
03/08/2013		UTL Technologies Ltd, Bangalore.	Embedded systems
04/08/2013		Wonderla Holidays, Bangalore.	Heavy electrical machines
11/08/2016	ECE	Airport Authority of India, Bangalore-2016	Telecommunication
19/08/2016		ACE Components and Electronics Pvt. Ltd, Mysore	Resistor manufacturing
15/09/2016		Radio Astronomy Centre, Ooty.	Satellite communication
21/09/2016		Indian Space Research Organization (ISRO)	Satellite communication

		Thiruvananthapuram	
12/08/2015		Indian Gears, Mysore.	Control application
21/08/2013		Coreel Technologies, Bangalore.	Software solution
02/08/2013		UTL Technologies Ltd, Bangalore.	Mobile board
28/07/2016		Thirumuthi Dam, Udumalpet-2016	Construction Technology
28/07/2016		Amaravathi Dam-2016	Construction Technology
18/08/2016 - 21/08/2016		Caprico Building Contractor & interiors, Bangalore	Construction Technology
07/10/2016 & 08/10/2016		Dr Fixit Experience centre, Cochin	Construction Technology
12/09/2015		Aliyar Basin and Jurisdiction,Pollachi.	Irrigation engineering
12/09/2015		Amaravati Basin, Pollachi.	Irrigation engineering
12/09/2015		Thirumoorthy dam and Jurisdiction, Pollachi.	Irrigation engineering
21/08/2015		Asset Homes Construction Pvt Ltd, Bangalore.	Construction Technology
24/02/2015	CIVIL	Bhavanisagar Dam, Bhavani.	Structural Analysis, Irrigation Engineering

29/02/2015		Mantri Developers Pvt Ltd, Bangalore.	Structural Analysis
04/07/2015		Pillur Water treatment Plant, Coimbatore.	Environmental Engineering
04/07/2015 & 21/08/2014		Technomax Ready Mix Concrete Plant, Coimbatore.	Concrete Technology
04/07/2015 & 02/08/2014		Venkateswara Blue metals & Quarry, Coimbatore.	Concrete Technology
09/08/2014		M.A Constructions, Cochin.	Construction Techniques and practice
02/08/2014		Govaan Steel Pvt Ltd, Avinasi.	Construction materials and practice
02/08/2014		Railway Junction at Podanur, Coimbatore.	Railway Engineering
26/08/2014		NA Constructions, Mysore.	Construction Techniques
23/08/2013		Akruti Developers, Bangalore.	Project Details
23/08/2013	CIVIL	U.R.C Constructions (Bridge Project), Bangalore.	Structural Analysis & Highway Engineering
26/08/2014		Vijiyashankar Constructions Pvt Ltd, Mysore.	Designing of Multistorey Building

13/09/2014	S & H	Indian Institute Astrocentre, Kodaikanal.	Physics
09/03/2013		Doddabetta Tea Factory, Ooty.	Tea Manufacturing Process

Workshop on Sree Sakthi Equipments Company, Mathampalayam

ECE Students at Airport Authority of India, Bangalore

ECE Students at Ace Components Pvt. Ltd,

ECE Students at Ace Components Pvt. Ltd, Mysore

ECE Students attended Inplant training at All India Radio, Ooty

ECE Students at Kerala Electrical and Allied Engineering Co.

Civil Department Students at Amaravathi Dam

EEE Department to ISRO, Bangalore

EEE Department to ISRO, Bangalore

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

- Feedback on curriculum is collected from Students, eminent parents and industry persons periodically.
- The given details are reviewed by head of the departments and the Principaland recommended to the departments concerned for implementation.
- Feedback of University question papers are obtained regularly and forwarded to the Controller of Examination of the University, for any deviations.
- There is no direct involvement on the curriculum development since the institution is affiliated to Anna University, Chennai.

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 onthe process ('Needs Assessment', design, development and planning) and the coursesfor which the curriculum has been developed.

- The scope is limited as the college is an affiliated college to Anna University; we adhere to the syllabus prescribed by the university.
- However, timely modifications are made to meet the global trends through, projects, Value-added courses, Industrial Visits, Guest Lectures, Workshops, participation in Seminars, Symposiums, Technical Fests, and Conferences by students and faculty.
- Further, the students of the college are encouraged to participate in various programs like tree plantation programs and blood donation camps.

1.1.8. How does institution analyze/ ensure that the stated objectives of curriculum areachieved in the course of implementation?

The institution analyzes the stated objectives of curriculum are achieved in the course of implementation via following measures:

- For the effective content delivery, every individual faculty member prepares lesson plan for the allocated subjects implementing teaching aids, references and innovative teaching methods which are duly verified by the Head of the Department and approved by the Principal.

- On the beneficiary of the students, the regular class hours, all the department Heads and Principal observe the way of teaching learning process and suggest some methods for tuning the effective content delivery.

- At the beginning of the semester (before regular classes) the laboratory manuals prepared by the faculty member and to submit the same to the Head of the Department for approval.

- In addition to that at early stages lab instruction classes are conducted to the students and to train them for their better performance during the regular lab hours.

- The stated objectives of curriculum are achieved by IQAC.

- 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.

- Result analysis meeting on internal assessment test and Anna university theory examination are conducted periodically to evaluate the performance of the students.

- Progress of the syllabus coverage and any other issues relevant to the delivery system is obtained from the feedback through class committee meetings.

- 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 the Anna University-Chennai, the academic flexibility is limited. So the institution is not offering any certificate/ diploma / skill development courses.

1.2.2. Does the institution offer programmes that facilitate twinning /dual degree? If 'yes', give details.

No, the institution does not offer programmes that facilitate twinning / dual degree since it is affiliated to Anna University.

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 foremployability Range of Core /Elective options offered by the University and those opted by the college

The University offers a wide range of electives. However, students are guided by findings of industry requirements as well as feedback and suggestions from faculty, thereby rendering the decision both personally chosen and viable.

Range of Core /Elective options offered by the University and those opted by the college

For all UG students from 6th semester to 8th semester have elective options based on the latest industry requirements, technological developments and skill development. The students are allowed to choose their elective subjects and it is implemented.

TABLE 1.3: Details of Electives Opted By the Institute

DEPT	BATCH	SEM	ELECTIVES OFFERED BY DEPARTMENT	
CSE	2010 - 2014	VI	080230038	Professional Ethics
		VII	080230056	Data Warehousing & Data Mining
			080230049	Software Testing
		VII	080230063	Software Quality Management
			080230069	Cloud Computing
	2011 - 2015	VI	MA2264	Numerical Methods
			IT2353	Web Technology
		VII	CS2032	Data Warehousing & Data Mining
			IT2352	Cryptography & Network Security
		VIII	IT2042	Information Security
			IT2403	Software Project Management
	2012 -	VI	IT2353	Web Technology
			IT2043	Knowledge Management

	2016	VII	CS2032	Data Warehousing & Data Mining
			IT2352	Cryptography & Network Security
		VIII	CS2055	Software Quality Assurance
			IT2403	Software Project Management
	2013 - 2017	VI	GE6757	Total Quality Management
		VII	CS6004	Cyber Forensics
			IT6005	Digital Image Processing
		VIII	IT6011	Knowledge Management
			GE6075	Professional Ethics
	2014 - 2018	VI	GE6757	Total Quality Management
ECE	2010 - 2014	VI	080290046	Medical Electronics
		VII	080290063	Computer Hardware & Interfacing
			080290069	Professional Ethics & Human Values
		VIII	080290075	Wireless Networks
			080290077	Satellite Communication
	2011 - 2015	VI	EC2021	Medical Electronics
		VII	EC2029	Digital Image Processing
			CS2060	High Speed Networks
			GE2022	Total Quality Management
		VIII	EC2042	Embedded & Real Time Systems

			EC2043	Wireless Networks
ECE	2012 - 2016	VI	EC6001	Medical Electronics
		VII	IT6005	Digital Image Processing
			EC6009	Advanced Computer Architecture
			EC6015	Radar And Navigational Aids
		VIII	EC2042	Embedded And Real Time Systems
			EC2043	Wireless Networks
	2013 - 2017	VI	EC6001	Medical Electronics
		VII	IT6005	Digital Image Processing
			EC6009	Advanced Computer Architecture
			EC6015	Radar And Navigational Aids
		VIII	CS6003	Adhoc and sensor networks
			GE6757	Total Quality Management
	2014 - 2018	VI	EC6001	Medical Electronics
M.E.VLSI DESIGN	2012 - 2014	I	VL9251	Testing of VLSI Circuits
		II	VL9256	VLSI Technology
			VL9261	ASIC Design
		III	VL9252	Low Power VLSI Design
			VL9255	Design of Semiconductor Memories
			VL9266	Introduction to MEMS System

				Design
		I	AP7202	ASIC and FPGA Design
			VL7003	Genetic Algorithms and its Applications
	2013 - 2015	II	VL7005	Physical Design of VLSI Circuits
			VL7008	Design of Semiconductor Memories
			AP7016	System ON -CHIP Design
		III	VL7011	Signal Integrity for High Speed Networks
			VL7014	IP Based VLSI Design
		I	AP7202	ASIC and FPGA Design
			VL7003	Genetic Algorithms and its Applications
	2014 - 2016	II	VL7005	Physical Design of VLSI Circuits
			VL7008	Design of Semiconductor Memories
			AP7016	System ON -CHIP Design
		III	VL7011	Signal Integrity for High Speed Networks
			VL7014	IP Based VLSI Design
	2010 - 2014	VII	080280067	Virtual Instrumentation
			080280072	Power System Operation & Control

EEE		VIII	080280083	Special Electrical Machines
			080280085	Renewable Energy
	2011 - 2015	VI	GE2025	Professional Ethics in Engineering
		VII	EI2411	Bio-Medical Instrumentation
		VIII	EE2032	High Voltage Direct Current Transmission
			EE2036	Flexible AC Transmission Systems(FACTS)
	2012 - 2016	VI	IC6601	Advanced Control System
		VII	EE6008	Microcontroller Based System Design
			EI6704	Biomedical Instrumentation
		VIII	EE2032	High Voltage Direct Current Transmission
			EE2036	Flexible Ac Transmission Systems
	2013 - 2017	VI	IC6601	Advanced Controll System
		VII	EE6008	Microcontroller Based System Design
			EI6704	Biomedical Instrumentation
			GE6757	Total Quality Management
		VIII	EE6010	High Voltage Direct Current Transmission
	2014 -	VI	EE6002	Power System Transients

	2018			
	2010 - 2014	VII	080120052	Internal Combustion Engines
			080120059	Unconventional Machining Processes
		VIII	080120075	Maintenance Engineering
			080120076	Industrial Safety
	2011 - 2015	VI	ME2026	Unconventional Machining Processes
		VII	ME2029	Design of Jigs, Fixtures & Press Tools
			ME2028	Robotics
		VIII	ME2037	Maintenance Engineering
			ME2041	Advanced IC Engines
	2012 - 2016	VI	ME2026	Unconventional Machining Processes
		VII	ME2027	Process Planning & Cost Estimation
			ME2028	Robotics
		VIII	ME2037	Maintenance Engineering
			ME2041	Advanced I.C. Engines
	2013 - 2017	VI	ME6004	Unconventional Machining Processes

MECH		VII	ME6006	Design Of Jigs, Fixtures And Press Tools
			ME6012	Maintenance Engineering
		VIII	IE6605	Production Planning And Control
			MG6071	Entrepreneurship Development
			ME6016	Advanced I.C Engines
			ME6019	Non Destructive Testing And Materials
	2014 - 2018	VI	ME6003	Renewable Sources Of Energy
			ME6004	Unconventional Machining Processes
CIVIL	2010 – 2014	VI	080100046	Traffic Engineering
		VII	080100064	Smart Materials & Smart Structures
			080100066	Repair & Rehabilitation of Structures
		VIII	080100077	Air Pollution Management
	2011 – 2015	VI	CE2024	Remote Sensing Techniques & GIS
		VII	CE2026	Traffic Engineering & Management
			CE2038	Air Pollution Management
		VIII	CE2045	Pre- Fabricated Structures

			CE2071	Repair & Rehabilitation of Structures
	2012 - 2016	VI	CE2024	Remote Sensing Techniques & GIS
		VII	CE2026	Traffic Engineering & Management
			CE2038	Air Pollution Management
		VIII	CE2045	Prefabricated Structures
			CE2071	Repair And Rehabilitation Of Structures
	2013 - 2017	VI	CE6003	Remote Sensing Techniques And Gis
		VII	CE6006	Traffic Engineering And Management
			CE6011	Air Pollution Management
		VIII	CE6016	Prefabricated Structures
			CE6021	Repair And Rehabilitation Of Structures
	2014 - 2018	VI	CE6002	Concrete Technology

Choice Based Credit System and range of subject options

No, the affiliating university is not following the choice based credit system.

Courses offered in modular form

Since the institution is affilated to anna university curriculam all the subjects are offered unit wise and three internal assessment tests are conducted.

1.2.4 Does the institution offer self-financed programmes? If 'yes', list them and indicatehow they differ from other programmes, with reference to admission, curriculum,fee structure, teacher qualification, salary etc.

Yes. All the programmes offered by the institution are self-financed programmes. The college is a self-financing institution, recognized by the Government of Tamil Nadu, approved by AICTE and affiliated to Anna University, Chennai.

Table 1.4: List of Self-financed Programmes

DEGREE	COURSE
B.E (UG)	Civil Engineering Electrical and Electronics Engineering Mechanical Engineering Electronics and communication Engineering Computer science and Engineering
M.E (PG)	VLSI Design

- **Admissions:** Admissions are done on the merit as per guidelines prescribed by the statutory bodies like AICTE, and Directorate of Technical Education.

- **Curriculum:** The institution follows the curriculum designed by the Anna University, implemented by the institution through a systematic plan of action which includes semester plan, lesson plan, course file, assignments, internal assessment test schedule.The faculty is encouraged to use different instructional aids like LCD projectors, Computer and audio equipments for effective planning, implementation and delivery of the curriculum.

- **Fee Structure:** The fee structure and seat sharing is based on the Government of Tamil Nadu norms.

- **Teacher's Qualifications:** As per AICTE norms and regulations.

- **Salary:** The AICTE qualification is mandatory for teachers. They are duly approved by the Anna University. The Assistant Professors, Associate Professors and Professors are offered AICTE pay scale.

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

- Various Value-added certified courses offered by the institution helps the students in gaining an upper hand in procuring jobs.

- The Lab VIEW Academy curriculum gives students an opportunity to validate their knowledge and skills at a professional level with certification. Experience and certification in Lab VIEW can improve students career opportunities.

- The academy encourages and promotes industry oriented projects; Inplant training programs to bridge industry academia gap and improve employability of young engineers. The establishment of this training academy is one of the initiatives in the same direction.

- **Conduct of Guest Lectures by Industries:** All Departments of the institution conduct lectures delivered by experts from various industries and research

organizations.This makes the students aware in terms of novel technologies and latest developments.

- **Beyond curriculum- Value Added courses:** Students were taught beyond curriculum subjects mapped with the industry so that industry and academia gap can be reduced interms of raising the skill sets of forthcoming professionals.

Table 1.5: List of Value – added courses

Department Name	Value Added Courses
Mechanical Engineering	Non Destructive testing Methodologies and Techniques, NDT course, Robotics workshop
Civil Engineering	A+CADD, RevitArchitecture and ATADD Pro
Electronics and Communication Engineering	NI Lab VIEW Core 1 and Core 2,Sunshiv Electronics, UTL Technologies
Computer Science and Engineering	Java Programming, JAVA/J2EE, ASPDOTNET
Mechanical Engineering	SCADA, PLC

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?

No, since the institution is affiliated to university there is no provision for flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice.

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?

The institution being an affiliated college to the Anna University, Chennai does not have the freedom of formulating its own curriculum. The efforts made by the institution to supplement the university curriculum to realize the goals and objectives of the institution are:

- Various topics of content beyond the syllabus are being taught to students in order to have additional knowledge related to the respective subjects.
- Periodic Industrial Visits and tours are arranged for the enrichment of student's practical knowledge.
- Prepare for the on-campus and off-campus interviews for employment.
- Guest Lectures are being conducted to create awareness of outside world and to have effective interaction with resource persons from various industries.
- Students are encouraged to attend the in-plant training programs offered by various industries during summer and winter.

- Special Programmes to impart special skills through the efforts of training and placement cell.

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?

- Our institution strictly follows the syllabus designed by Anna University, Chennai, while delivering this syllabus content to the students; our faculty enriches it with their own expertise and experience.
- To develop the student's technical skills they are encouraged to gain industrial experience through the industrial training.
- To enrich the knowledge of the faculty members are encouraged to attend Faculty Development Programs, Seminars, Workshop and Conferences etc. in the respective fields and the same is delivered to the students.
- In order to improve the confidence level of the students, Placement Cell organizes pre placement training for all the third year and final year students.
- Value added courses are conducted by all the departments to face the competitive job requirements regularly.
- To gain real time industrial experience, students are motivated to carry out the projects.
- Guest lectures are invited to deliver the recent industrial trends by the various industrial experts.
- The institution has taken measures to cater the global market needs based on the feedback received from the HR people visiting for campus placement drive.

- The curriculum itself includes the professional courses like Total Quality Management, Principle of Management, Environmental Science and Professional Ethics & Human Values to reform the student into a better professional and good human being.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issuessuch as Gender, Climate Change, Environmental Education, Human Rights, ICTetc., into the curriculum?

The efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum is as follows:

- Gender: Institution strictly practices the principle of gender equality with emphasis on safeguarding the decency, dignity and safety of the women. Any grievance from the female students or staff is immediately attended to including recourse to law. The staff and faculty members and students are treated equally irrespective of their gender.

- Environmental Education: Rain water harvesting system is there in the college. Environmental science and engineering is a compulsory paper prescribed by the university which covers the energy savings, pollution control, water shed management etc.

- Human rights: The institution has an Anti-Ragging committee to ensure a ragging free environment. The students are constantly reminded that they should respect the rights of others in the same manner as they want their rights to be respected. The Anti-Ragging committee consists of Principal as convener, senior professor as coordinator and senior faculty member as members of this committee.

- ICT: Information and Communication Technology is an integral part of the undergraduate curriculum prescribed by the Anna University and is being adopted by the institution. All HOD rooms are equipped with desktop computers, furniture, pin boards etc.

- Besides this Wi-Fi connectivity is also available free of cost throughout the campus.

- Provision of LCD projectors in teaching-learning enhances lecture delivery and effective communication.

- Staff attendance is registered biometrically.

- Admissions, Fees, Academics, Examinations, Placement, Library, Hostel, Transport and Payroll are governed by ROVAN software (institute management software).

- Digital library: A plenty of prescribed text books, reference books, General books, technical magazines and recently published books on the subjects are available in SSEC Library. An exclusive digital library with a good number of CD's on various technical topics and internet facility are accessible by all the members of SSEC. This facility helps the faculty members to assess the lecture easily and make the students to get an insight of theory and concepts.

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

The institution constantly endeavoring to bring in better career by the following ways:

- To enhance the students employability skills, Value Added courses in their respective fields are organized.

- Training on technical and soft skills by placement cell.

- Yoga classes for students for a healthy mind and body.

- NSS organizes activities like blood donation camp, tree plantation and clean India.

- Students are allotted different responsibilities in organizing events and activities such as Cultural programmes, Competitions, Seminars, Workshops, etc. In this way they improve their team building and organizational skills.

- Professional ethics is integrated in the curriculum.

- Value Added Courses based on industry demands offered by the Departments.

1.3.5. Citing a few examples enumerate on the extent of use of the feedback fromstakeholders in enriching the curriculum?

- The suggestion of parents, students and faculty are considered for modifying and adding on special inputs. Faculties are encouraged to contribute for enrichment of curriculum. Some of the examples of enrichment of curriculum are introduction of short term courses such as .NET, Auto CAD, JAVA, etc.

- From recruiters, feedback is collected when they came for campus recruitments.Based on the feedback remedial actions are carried out to develop the curriculum by various activities like workshop, guest lecture, industrial training and value added courses.

1.3.6. How does the institution monitor and evaluate the quality of its enrichment programmes?

- The institution has a very clear and transparent way to monitor and evaluate the quality of various enrichment programmes initiated by it.

- The academic bodies of the institution such as Academic Coordinator, Principal and HOD's monitor the enrichment programmes.

- A number of enrichment programmess like seminars, workshops, guest lectures, expert talks, symposium and discussions are conducted.

- The institution makes sure that the programmes offered in the curriculum include contribution to human values, fostering global competencies among students, promoting the use of technology and quest for excellence.

- Students are also encouraged to organize technical fests which enable them to enhance their analytical skills, critical thinking and problem solving techniques. The programs so conducted to establish a supportive network of student, staff and faculty.

- Students are encouraged to do mini projects based on their knowledge and also to participate in various project competitions organized by other institutions.

- The programmess so conducted to establish a supportive network of student and faculty.

1.4. FEEDBACK SYSTEM

Feedback system is basically about institutional practices, processes and frameworks that take into account students concerns of the quality of education they receive.

1.4.1. What are the contributions of the institution in the design and development of the curriculum prepared by the University?

The institution is affiliated to the Anna University, Chennai and follows the syllabus prescribed by the same. Therefore there is no scope for framing institution curriculum onits own. The institute regularly contributes to the design and development of the university curriculum in the following ways:

- Faculty members are deputed to attend the workshops and Faculty Development Programmes conducted by the university relevant to design and development of the curriculum.

- The institution has its value based mechanism to obtain feedback on curriculum from academic peers, outgoing students, alumni, industry experts and parents.

- The institution has an IQAC looks after the affairs of the feedback process and analysis of implementation of curriculum. The expert teams from the university visits the institution for the purpose of inspection.

- Any changes/ up gradations in the curriculum are solely handled by the university in consultation with participating members of the affiliated colleges.

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 useinternally for curriculum enrichment and introducing changes/new programmes?

Yes, the institution has its value based mechanism to obtain feedback on curriculum from academic peers, outgoing students, alumni, industry experts and parents.

Student's feedback:

- Feedback is collected from students once in a semester in the written format as per the format.

- Feedback is taken individually by subject teachers in the class room after each unit.

- Feedback is taken during class committee meeting by class Advisors.

- Feedback is collected by Heads of the Department with details of the syllabus

covered.

- Feedback is taken directly by Principal from the students department-wise.
- Feedback is also being collected by the respective mentors on regular basis.
- The end-semester result analysis also being taken as part of feedback process.

Parent's feedback:

- Informal feedback is being taken during their visit to the institution and also during parent's meeting.

Employers / industries:

- The feedback is collected from the employers and industries during the Campus Drives.
- Also feedback is collected from Industry Experts / External Guides, whenever the project guide visits the Industry to inspect the projects of his / her students.

Academic peers feedback:

- The feedback is collected from the external examiners, experts invited for Guest Lectures and industry experts.
- During IQAC meetings the feedback obtained is discussed and conclusions are drawn so as to implement valuable suggestions emerging out of these discussions.

   The major suggestions were communicated to the University forFormal Revisionof the curriculum through members of Board of Studies.

   The suggestions are well utilized in introducing special classes for above average students, bridge sessions and remedial classes for weak students. Thus the suggestions are taken into account for continuous improvements and communicated to Anna University for appropriate modification in the curriculum.

1.4.2. **How many new programmes/courses were introduced by the institution during thelast four years? What was the rationale for introducing new courses/programmes?**

- To encourage Research and Development activities of the institution, PG course M.E VLSI DESIGN has been introduced in the academic year 2012-2013.
- Based on the demand the intake in Mechanical Engineering and Electronics and Communication engineering is increased.

Table 1.6: List of new programmes

S.NO	LEVEL	DEGREE	NAME OF THE COURSES	YEAR OF START ING	INCREASE IN INTAKE			
					2010	2011	2012	2013
1	UG	B.E	MECH	2010	-	60	60	-
2	UG	B.E	ECE	2010	-	-	60	-
3	PG	M.E	VLSI	2012	-	-	-	-

CRITERION-II TEACHING, LEARNING AND EVALUATION

2.1. STUDENT ENROLLMENT AND PROFILE

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

Sree Sakthi Engineering College is an industry driven institution. This institution has the privilege of being under the streamer of Sree Sakthi Equipments Company, SSEC Foundary Equipment Pvt. Ltd., Siva Sakthi Equipments, Perfect foundary machineries, Sree Sakthi Engineering Company, Arun Hi-tech Engineering, Bilichi melt and cast alloys Pvt. Ltd., a 30 year market leader in the area of foundry equipments. An emerging institution aims at imparting quality education to students belonging to all strata of society at an affordable cost.

UG programmes:
- B.E- Civil Engineering
- B.E- Computer Science And Engineering
- B.E – Electronics and Electrical Engineering
- B.E- Electronics and Communication Engineering
- B.E-Mechanical Engineering

PG programmes:
- ME- VLSI Design

Publicity

The admission propaganda is done through the institute websites, prospectus, education fairs and ensign in the conspicuous parts of the city. The admission propaganda is also published in the leading newspapers. The propaganda gives a

detailed knowledge about the UG & PG courses eligibility criteria, admission process & the facilities provided by the management.

Transparency

The institute ensures 100% transparency in admission process by following the norms given by the Department of Technical Education, Government of Tamil Nadu. The seats under Government quota are filled through Anna University, Single window counseling system. The seats under Management quota are filled through consortium of self-financing engineering colleges in Tamil Nadu.

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 to the Institution.

Eligibility for UG Courses:
For I year Students:

Candidates should have passed in Higher Secondary Examination (Academic / Vocational Stream) and obtained a minimum aggregate percentage of marks as indicated below:

Table 2.1- Community wise eligibility marks for admission

Criteria	OC	BC	MBC/DNC	SC/ST
H.Sc. - Academic Stream (Maths+Physics+Chemistry)	50%	45%	40%	40%
H.Sc. - Vocational Stream (Maths+ Theory + Practical)	50%	45%	40%	40%

For Lateral Entry:

Candidates should have passed the Diploma Courses in relevant branches and obtained a Minimum aggregate percentage as given below:

Table 2.2 - Community wise eligibility marks for admission

Criteria	OC	BC	MBC/DNC	SC/ST
Aggregate	55%	50%	45%	40%

Admission for Other State:

Other State candidates will be considered as OC and should secure a Minimum of 50% in Maths, Physics and Chemistry.

Eligibility for PG Course - M.E. VLSI Design:
Eligible Qualification

A pass in a recognized Bachelor's Degree or equivalent in the relevant field and along with TANCET (Tamilnadu Common Entrance Test) marks.

Eligible UG programmes for pursuing M.E:

B.E / B.Tech.

- Electronics and Communication
- Electrical and Electronics
- Electronics
- Instrumentation
- Electronics and Instrumentation
- Instrumentation and Control
- Computer Science and Engg.
- Information Technology

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.

The institution follows the norms laid down by the Directorate of Technical Education. The cut off mark details of the admission for each programme offered by the institution is given below**.**

Table 2.3 – maximum and minimum cut-off marks

SSEC	CIVIL		MECH		ECE		EEE		CSE	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
2016 - 17	87.00	172	78.00	188.0	79.75	183.2	77.50	190.7	77.50	188
2015 - 16	87.00	161.5	79.50	114.2	82.0	97.25	80.25	105.0	77.50	188.3
2014 – 15	80.2	160	97.5	123.5	85.0	155.2	101.5	138.7	97	124.5
2013 – 14	96.5	140	78.75	135	80.25	96.75	79.56	80.25	98.60	111.2
2012 – 13	85.5	146.5	80	144.7	85.2	127.7	78.65	90.75	99.5	129
2011 – 12	84.5	124.2	87	141.5	107	165	79.30	84.5	78.7	136.2
2010 – 11	95.2	132.5	94.00	151.5	81.5	148.5	83.25	126.5	97.2	124.2

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?

- Yes, the Admission Cell prepares a summary report of admission and notifies the trends in admission to the authorities. Based on the report,

publicity mechanism is intensified for the courses which are less in demand. Likewise redoubled efforts are taken in geographical areas that receive good response.

- The introduction of merit scholarships, advertisement in the satellite TV channels / Daily News Papers / College website / Banners, etc., to publicize the activities of the institute. Career Guidance Programme for the benefit of higher secondary students, distribution of handbooks to nearby schools & Polytechnics improved the inflow of meritorious students. The department concerned, subsequently, as an annual feature, analysis the admitted students of the programmes in various aspects like

  - Cut- off marks secured in the qualifying exams
  - Admitted strength against sanctioned strength,
  - Gender wise admission
  - Place and name of the institution last studied,
  - The students socio-economic and cultural background

- Course that register high demand with the public suggestions and enquires for new courses are conveyed to the management.

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, Women, Differently abled, Economically weaker sections, Minority community, any other.

- Admissions are being made as per the reservations system followed in the state and by the University. The Management provides merit scholarships to meritorious students. Students from the lower income groups are assisted

with scholarships from government and private bodies. Students from SC/ST/OBC/Women/differently abled and Sports category are allotted seats as First graduate status in the family is recognized and assistance provided. As per the University norms, the SC/ST students have the benefit of full Tuition fee waiver.

- Women students are provided separate hostels, transportation and prompt health care ensures that their focus is on education primarily. Students from neighbouring states enter into the main stream blending with to form a democratic hassle free study environment. Close monitoring on their performance and progress ensures that they reach comfort zone in their studies.

- The institution follow as per the government norms for single window seats reserved for students from the minority community. Institution gives special consideration for the rural area students. Fee concession for financially weak students are provided with scholarship

Merit scholarship provided to a meritorious student

Table 2.4 (a): Students Admitted – Community wise

S.No	Category	2010 - 2011		2011 - 2012		2012 - 2013		2013 - 2014		2014 - 2015		2015 - 2016		2016 - 2017	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
1.	General	41	9	42	2	36	12	19	1	18	6	14	2	4	2
2	OBC	196	45	219	40	212	71	211	39	143	53	132	43	134	36
3	SC	21	5	26	4	22	7	45	14	34	14	66	19	104	34
4	ST	-	-	-	-	-	-	4	1	2	-	1	4	3	-
	Total	258	59	287	46	270	90	279	55	197	73	213	68	245	72

Table 2.4 (b) Students Admitted – Gender wise.

S.No.	Course	No. of students Admitted													
		2010 - 2011		2011 - 2012		2012 - 2013		2013 - 2014		2014 - 2015		2015 - 2016		2016 - 2017	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
1.	CIVIL	58	8	52	8	58	6	42	11	52	7	53	9	36	9
2.	MECH	71	0	145	0	129	2	180	0	102	1	117	0	136	4
3.	ECE	47	17	32	19	27	40	21	21	13	32	7	24	18	19
	EEE	48	8	38	1	26	6	20	5	19	12	25	11	30	10

4.															
5.	CSE	34	26	20	18	24	24	14	12	11	14	11	24	25	29
6.	M.E. (ECE)	NA	NA	NA	NA	6	12	3	6	1	7	0	1	0	1
Total		258	59	287	46	270	90	279	55	197	73	213	68	245	72

2.1.6 Provide the following details for various programmes offered by the institution and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.

Due to the market trends in industry, recently the demand has significantly decreased in electronics related programmes, whereas the preference for Mechanical Engineering, Civil Engineering and Computer Science Engineering has gone up. In order to attract the students in spite of declining market trends, the departments are constantly taking efforts to approach prospective students from various schools conducting awareness programmes, project exhibitions, career guidance programmes, sports meet, value added courses, etc.

Table2.5 - Details of Students Admitted

S.No	Course	Sanctioned Intake	Admission Strength	Demand ratio
1	CIVIL	60	45	
2	MECH	180	140	
3	ECE	120	37	

4	EEE	60	40	NA
5	CSE	60	54	
6	M.E. (ECE)	18	1	

*Not applicable as it is calculated by university

2.2   CATERING TO DIVERSE NEEDS OF STUDENTS

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 able 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 and 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 in our 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 2.6 shows the details about the bridge courses conducted in our campus.

<u>**Table 2.6- Details of Bridge Courses**</u>

S.No	Department	Subjects taught	Target group
1	MATHEMATICS	- Matrices, Vector Algebra - Series and Sequences, Analytical geometry - Trigonometry, Differential Equations - Laplace Transforms	Fresh Entrants
2	ENGLISH	- Listening, Speaking, Reading and writing Skills - Grammar and pronunciation - Vocabulary building using language in social contexts	Fresh Entrants

The students with low cutoff mark are given more importance and additional care is taken to them to improve their confident level and performance to cope up with their fellow students extra coaching class is taken.

2.2.3   What are the strategies drawn and deployed by the institution to bridge the knowledge gap of the enrolled students to enable them to cope with the programme of their choice? (Bridge/ remedial/ add (on/ enrichment courses, etc).

Bridge Courses:

- Bridge courses are used to improve the knowledge level in the field of Mathematics and Technical English of the students at the entry level.
- These courses are conducted for first year students and second year lateral entry students.
- Language lab plays a major role on developing the knowledge on technical English.

Remedial courses:

- Remedial courses, retests, assignments are provided to the students to improve their academic performance of the slow learners.
- To improve the reading, writing and speaking ability of enrolled students special continuous communication training is given through the separate training cell functioning in the institution.

Value Added Courses:

- The main objective of the course is to reduce the industry institution gap.
- To enrich the knowledge of advanced learners Add-on courses are conducted.
- Various Value-added certified courses offered by various departments are:

- **Department of Computer Science & Engineering**
  - **.**NET certification course.
  - PHP certification course.
  - JAVA certification course.
- **Department of Electronics & Communication Engineering**
  - Embedded system certificate course by Advetech Coimbatore.
  - Embedded certification courses by UTL Technologies Bangalore.
  - Lab view certification courses by National instruments Bangalore.
- **Department of Civil Engineering**
  - AUTOCAD certification course.
  - STADPRO certification course.
  - Revit Architecture certification course.
  - Primavera and MS Project.
- **Department of Electrical & Electronics Engineering**
  - Embedded certification course.
  - PLC SCAD certification course.
- **Department of Mechanical Engineering**
  - Solid Works certification course.
  - AUTOCAD certification course.
  - PROE certification course.
  - ANSYS software certification course.
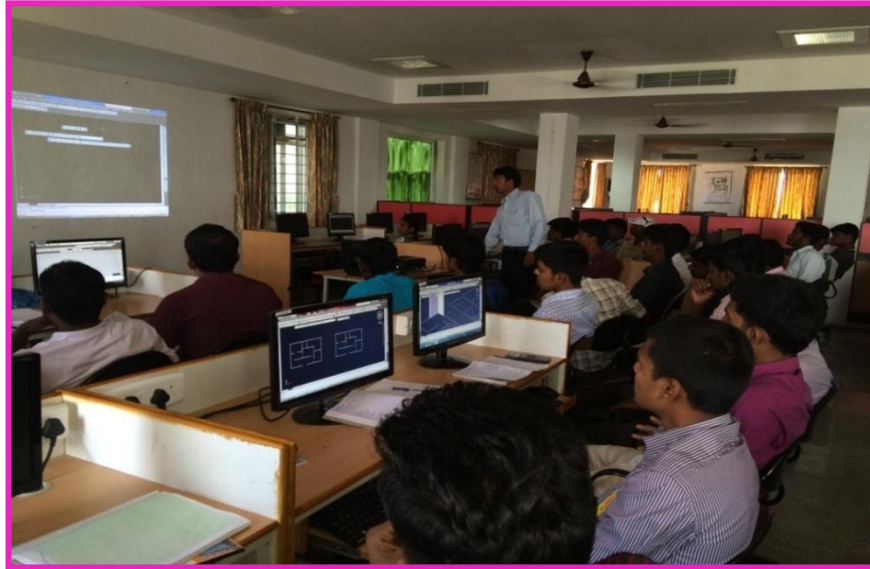
Value added course on Revit Architecture

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

Equality

- The staff members and students are treated with gender and religious equality.

Women Welfare

- Women Grievances Redressal committee functions separately for the benefit of the women employees and girl students.
- A separate rest room is available for lady staff and girl students.
- The institution never discriminates on gender and religious issues.
- To ensure the women's rights, Women Grievances Redressal committee is existed.
- There is no difference in pay and responsibilities on gender basis.

Accessibility

- All kinds of academic help are provided for the benefit of the economically and socially weaker section students.
- The institution is located 27 KM away from Gandhipuram. So it is pollution and noise free. More trees are planted in and around the college campus.

Environment

- Blood donation camps, social issues, plantation of tree, usage against polythene bags and various health awareness camps are organized by our NSS & YRC.
- Our campus is plastic free even rain water harvesting tank is constructed as a part of water conservation.
- The institution have set up an eco-trekking club to conduct eco friendly programs such as tree plantation, awareness camp, marathon for the cause etc.,

Blood donation camp

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

- College identifies the needs of advanced learners through the regular interaction with students by building a hierarchy of faculty consists of tutor, class advisor and members of class committee.
- Parents are invited for parents-teachers meeting to improve the quality of learning and make necessary amendments to fulfill the needs of advanced learners.
- The students are encouraged to do projects and mini projects in the advanced topics under the guidance of the faculty members.
- The students are encouraged to participate in Conferences, Symposium & Work shop to enrich their knowledge.
- To develop their creative knowledge, opportunities are provided to organize and participate in different events.
- Proficiency prizes for the toppers & university Rank holders are honored on graduation day.
- Seminar by resource persons & special guest lectures are arranged periodically to fulfill learning needs & enhance our students.
- Special Guest lectures and seminars by resource persons from industry and research organizations are arranged periodically to fulfill the learning needs on the emerging areas.
- The college library provides lot of journals and e-books, through which the students can gain knowledge on the advanced topics.
- Students are encouraged to appear for GATE and other competitive Examinations
- Students are encouraged to take research projects along with the faculty members and to present papers at seminars and conferences.
- Students are encouraged to take up internships.

- University rank holders are honored during Graduation Ceremony
- Special elective courses are offered as per the request.
- The advanced learners are encouraged to utilize the NPTEL resources prepared by reputed Professors from IITs & IISc for learning the topics beyond the syllabus.

Guest lecture on the topic stability of wharves and jetties in soft riverine deposits by Professor from IIT Delhi

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc.)?

The evaluation system of the institute provides complete data of the student's academic performance in internal test and university exams. The results are analyzed for every student by the department and at college level. The students with poor performance due to various reasons are identified. The remedial measures are taken by

- Students are motivated to get university ranks.
- Periodical class committee meeting with students, teacher, tutor, class advisor and HoD.
- The tutors and advisors closely monitor the student's academic performance and attendance details.
- The details are communicated through letter to the parents, which contains 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.
- The question bank is prepared for all the subjects and distributed to the slow learners. The previous year question papers are 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 during internal exams by conducting evening classes. Assignments are also given for these students.
- Special classes and tests conducted for the needy students.

- Psychological counseling for depressed students by special counselor Dr. T. Srinivasan appointed by the management.

- For economically poor students, provision for Scholarship and easy installments are offered.

- Parents meeting conducted at end of each semester.

- 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 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.)

Academic Calendar
- The academic calendar gives the information about the college working days, notified holidays and various college events.

Time table
- The class timetable is prepared as per university curriculum and syllabus. The same is displayed on the department notice board and circulated to the students

Teaching and Delivery Plan

- The lesson plan, indicating the topics covered lecture wise, for each and every subject is prepared by the faculty members before the commencement of the semester and it duly approved after careful examination by the Head of the Departments.

Internal assessment and evaluation of students learning process

- With reference to the regulations of affiliating university, the total hours, schedule, evaluation and assessment has been discussed and planned. The performance of students is measured by the Internal Assessment Examinations and Internal Auditing by verifying the evaluated answer books and faculty log book. Each Faculty maintains course file and evaluation report including internal tests and University Examinations.

Assessment of academic quality

- The students are assessed on a continuous basis by conducting three tests per semester (Internal tests) and the answer scripts are evaluated within 3 days after the examinations. The answer papers are returned to the students and an opportunity is given to the students to discuss the evaluation with the teacher. The attendance at the end of every month is communicated to the students. Regular assignments are given during the academic year and they are evaluated.

2.3.2. How does IQAC contribute to improve the teaching–learning process?

Internal Quality Assurance Cell is one of the important cells in the Institution. The major contributions of IQAC to improve the teaching-learning process are:

- To develop a system for conscious, consistent and catalytic improvement in the overall performance of the institution.
- Practicing interactive teaching methodologies.
- Recommending remedial classes.
- Prepare and collect student feedback on teaching-learning process.
- Analyze the feedback to give suggestions for the improvement.
- Motivate to Organize Guest lectures, Workshops, Seminars and Conferences to interact with academicians and industrialists on the scientific advancements and market need to boost the teaching quality.
- Conduct academic auditing.
- Monitor the performance of the students.
- Conduct periodical review meetings with faculty members for 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?

The institution initiate actions to make the students actively participate in the teaching-learning process through activity based learning, mini/design and main projects. Following resources and practices ensure student centric learning and independent learning.

Classrooms

Class rooms are equipped with LCD Projection Systems, LCD Screens, USB ports and speakers for Laptop connectivity. These facilities enhance lecture delivery and effective communication. In all departments, internet connectivity is provided which is available free of cost throughout the campus.
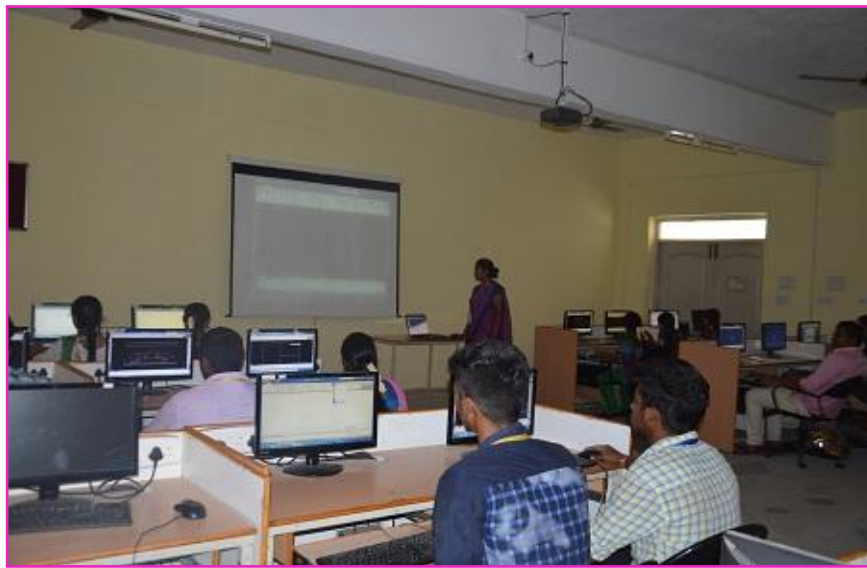
Lecture delivery and effective communication

Lecture method and Interactive learning:

The faculty use conventional chalk and black board teaching and audio visual aids to support teaching. Students are also encouraged to actively interact during the lecture hours.

Project-based learning

During the period of study in the 6th to 8th semester, real time projects are given to the students and they are guided by faculty members and Industry/ Research personnel.

Support Services

The institution offers a lot of support services to its teachers for making the learning student-centric.

- The college provides a well-stocked library which houses latest books, journals and e-books (Digital Library), which the faculty members use efficiently to provide comprehensive and latest information to the students. Students are also encouraged to use the library.
- Departmental seminars and industrial visits are organized to expose latest trend.
- Training and Placement Cell of the institute conducts personality development classes for the students with academic schedule.
- Wi-Fi technology in the campus enables the students to access the internet for their skill development.
- Class committee meeting and students' feedback are implemented.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into lifelong learners and innovators?

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

- All the departments to organize different events like paper presentation, quiz, debugging etc.
- Innovative teaching methodologies are adopted by teaching community in the institute by using LCD projectors, internet facilities and Wi-Fi
- Students are motivated to do Mini Projects and final year Projects every

year.

- Students are encouraged to take part in the various workshops, Symposia, Conferences and Seminars.
- The management encourages faculty and students to become the member of the various professional bodies like ISTE, ISRD ,etc.
- The management sponsors for bringing in the eminent personalities with academic excellence, industries/ corporate to share their varied experience and also train the students in emerging fields of engineering.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: 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.

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

- The institution is equipped with modernized central library having 9562 volumes of books in all disciplines of Engineering, Technology and Management. There are books related to moral sciences and general knowledge. The central library provides access to on-line resources like e-books and journals. The faculty members through "DELNET" access the e-resources books and various journals of different disciplines for effective update and teaching to the students in their field of study.
- The campus is enabled with 24×7, Wi-Fi connectivity.
- The faculty members utilize the National Programme of Technology Enhanced Learning (NPTEL) resource materials.

- The uses of modern multimedia teaching aid other than black board such as power point mode through LCD projectors are used as teaching aids.

Uses of modern multimedia

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, Symposiums and Workshops.
- Arranged blended learning methods during Personality Development Program.
- The industrial visits are arranged by the respective departments to bridge the knowledge gap between academic curriculum and industry.
- The institution offers the soft skill training, hands on workshop training, and sets up multiple campus placements to assist the students in carrier placements.
- Industry persons are invited to share their knowledge with students / Faculty.

- The management encourages faculty and students to become the member of the various professional bodies like ISTE, ISRD ,etc..

- In plant training and industry visits are regularly arranged to the students.

- Conducting several enrichment courses and Guest Lecturers for students.

- Value added courses are conducted to the students and Faculty.

- Faculty members and students are encouraged to participate in various National and International Seminars, FDP, Refresher courses and Workshops.

Table 2.7 Various event participated by faculty and students.

Description	2016-17	2015-16	2014-15	2013-14
No of projects	85	87	69	74
Paper Presented in national/ international conference	20	82	48	70
Participated in workshop/seminar/other events…	38	58	46	41
Total	143	227	163	185
Grand total	**718**			

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 students?

Academic support:

- Academic and personal counseling is provided by the class advisor and tutor.

- The class committee meeting is conducted on regular basis to discuss the

issues faced by students learning environment.

- The class advisor and tutor give individual care to the students to improve their academic progress and provide support on personal issues, to think and take important strategic decisions.

Personal and Psycho-social support:

- Psycho-social counseling is also provided by a professional counselor appointed by the college. The professional counselor focuses on identifying and exploring risk behaviors and motivates the individual towards risk reduction.

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?
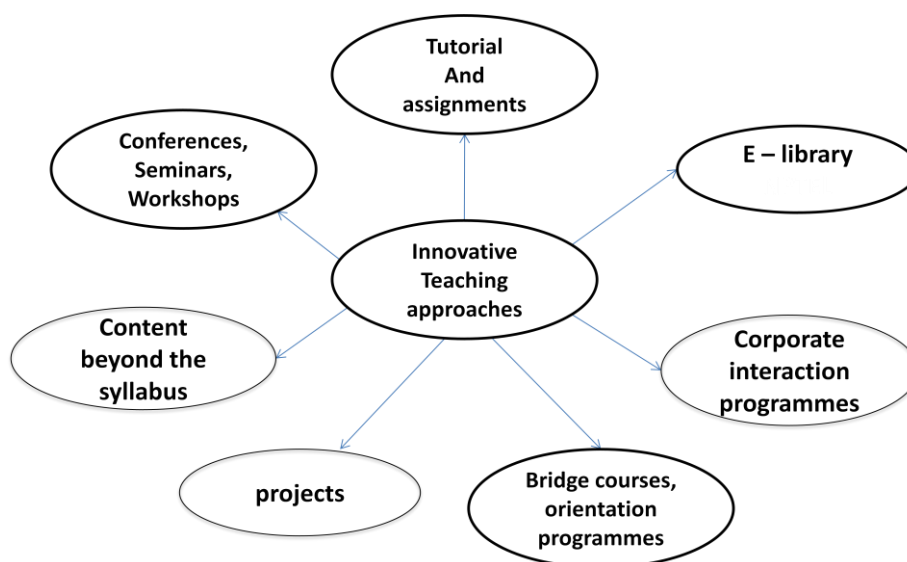
Innovative Teaching Methods

Seminar in the topic of sustainable

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.
- 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 Projectors, Videos etc., is used for teaching purpose.
- Faculty members upgrade their methods of delivery based on feedback from students, discussion with peers, and information from internet.
- Faculty members who attend conferences and seminars share their experiences with the students. Faculty members are motivated to pursue higher studies in their relative field which will enhance their teaching methods.

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?

- Subject-related journals, periodicals supplement the knowledge of students.
- Display of new arrivals rouse interest among the students and the Faculty.
- The library operates beyond college hours.
- The librarian helps the departments to purchase the latest edition of the books recommended by the faculty.
- Book reviews made by the students also help them to enrich their general knowledge
- Filing the previous question papers help the students to learn about scope of the subject question papers.
- Internet facility provided in the Library is used to enhance the knowledge in the concerned advanced subjects by logging into e-journals.
- Many valuable books are available in the Library for reference to many subjects.
- Computer-aided learning packages are available at the Library are used as tools to inculcate creative and scientific temper among learners.

Students utilizing the library facility

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.

The institution has an exemplary academic schedule; hence it seldom faces challenges in completing the curriculum within the planned hours. Although the Anna University has prescribed minimum of 450hours per semester the institution extends the classes more than the allotted hours. The additional hours are conducted according to the student's learning process and nature of the courses.

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

Monitoring

- Surprise visits by the Principal and HoD during the class hours help in the assessment of real time teaching learning process.
- The faculty members prepare and present a course plan with clear objectives, teaching methodology and outcome expected. It is reviewed by the head of the department.
- The teaching learning process is monitored by Principal, HoDs and IQAC.
- The regular review meeting is conducted by the management principal, director to evaluate the quality of teaching.
- Portions covered are specified in the logbook and it is verified by HoD.
- After the internal test, result analysis is prepared in the department level and submitted to the Principal.
- The result analysis meeting is conducted in the department, also by the Principal.
- Regular Class committee meeting is conducted by the department to monitor the syllabus coverage, discuss about the difficulties in academic and non –academic issues.
- Online student feedbacks are collected at the end of semester.
- ROVAN - student information system monitors the portion coverage and manages the student data such as hourly attendance, internal mark entry and communication letter to parents.
- ISO 9001:2008 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:

- Internal tests are conducted as per the academic calendar.
- The consolidated performance of students is analyzed by the faculty, class advisor and it is submitted to HoD / Principal.
- Performance of a particular class is analyzed by Class Advisor, HoD and it is submitted to the principal.
- Failures are counseled and motivated to improve the performance by class advisor and subject teacher.
- Remedial actions such as assignments and retest are carried out for the failures in the internal test.

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:

The college recruit highly qualified, meritorious faculty with good research potential and experienced by open competition well before the starting of the academic year.

Faculty Members are recruited based on the qualifications prescribed by AICTE for various designations. The recruitment of faculty to all cadres is based on

the recruitment policy. Selection is done by the duly constituted committees. The following procedure is adopted in the selection of faculty members.

- Vacancy advertisements are announced through newspapers.
- Receiving applications / resume till the last date mentioned in the advertisement.
- Scrutiny of applications.
- Intimation of interview date through letter / oral communication to the short-listed candidates.
- Selection committee / interview panel is constituted.
- Based on the recommendations given by the selection committee, the candidates are informed about the selection.
- Appointment orders are issued to the selected candidates by mentioning the date of joining.
- All appointments will have to be ratified by the Governing Council of the college.

Systematic procedure is followed for the recruitment of the faculty as given below:

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┌─────────────────────────┐
│   Assessment and        │
│ identification of the   │
│        need             │
└─────────────────────────┘
            │
            ▼
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│  Release of             │
│  advertisement          │
│  HOD                    │
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│ Constituting the panel  │
│ for interview           │
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│   Interview process     │
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│  Demo class  │ ◄─── │ Technical session│ ───► │ Interview process│
└──────────────┘      └──────────────────┘      └──────────────────┘
                              │
                              ▼
                      ┌──────────────────┐
                      │ Selection of     │
                      │ candidates &     │
                      │ approval         │
                      └──────────────────┘
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                      ┌──────────────────┐
                      │ Issue of         │
                      │ appointment      │
                      │ order            │
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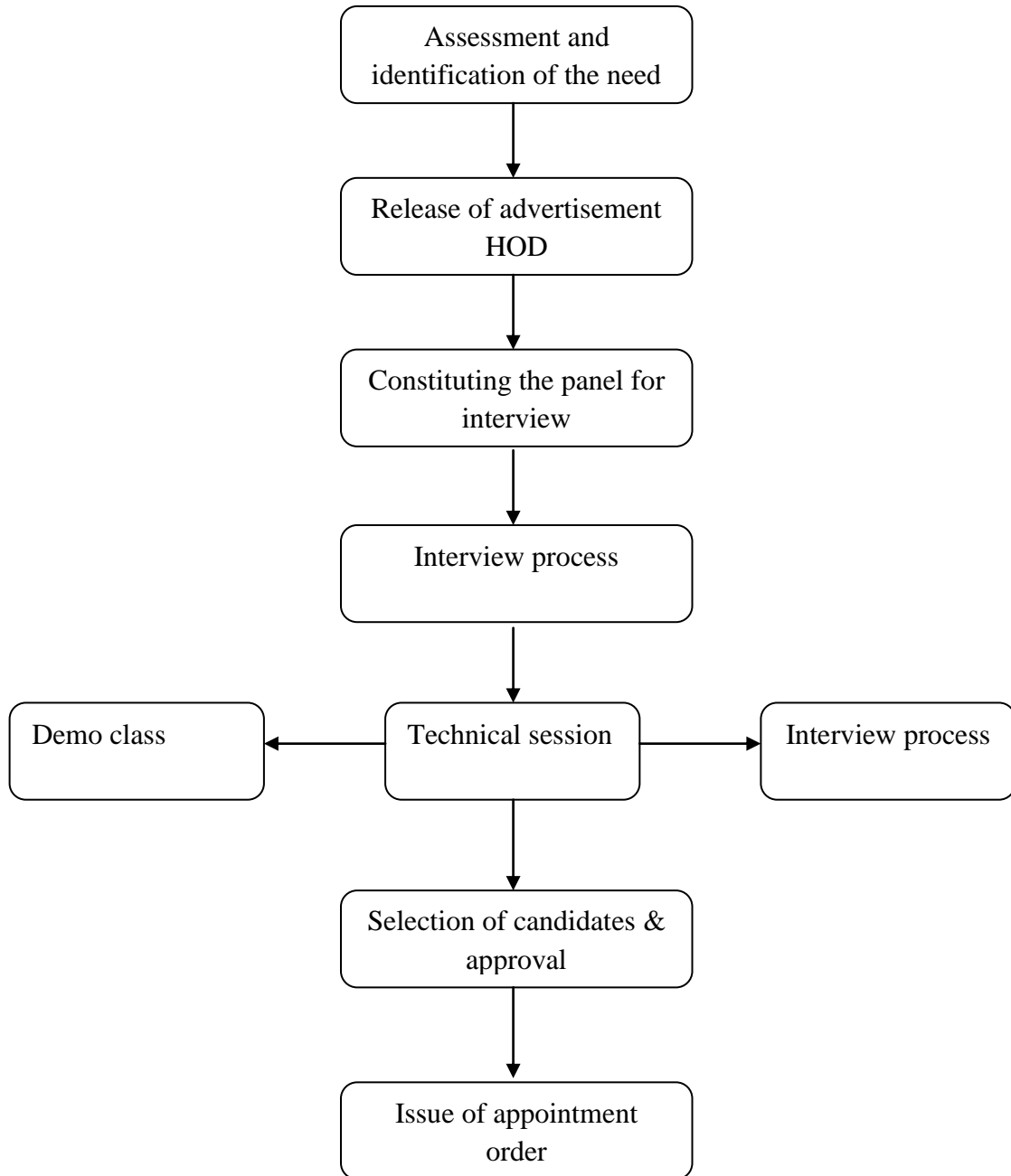
Faculty Recruitment Process

Table 2.8 - Faculty Details

S. No	Details	No of faculty
1	Ph.D	10
2	Pursuing Ph.D	17
3	PG	84
4	M.Phil	21

The following table shows the number of faculty members appointed in the preceding years:

Table 2.9 - Number of Faculty Members Appointed

Academic Year	Highest qualification	Professor	Associate Professor	Assistant Professor	Total	Total Strength of faculty members
2016-17	Ph.D	6	4	-	10	132
	M.Phil	-	1	20	21	
	PG	-	2	99	101	

Retention:

- The institution has a stress free environment with academic freedom.
- Attractive salary is offered matching their qualification and experience.

- Higher education is promoted with high importance by sponsoring to higher studies.
- Leave benefits such as On Duty (OD), Official on Duties (OOD) are available.
- Maternity leave is sanctioned to the faculty as per the institution norms.
- Faculty members are encouraged to publish papers in national / international journals.
- Intimation period of three months has to be given by the faculty prior to the leaving date, so that advance steps are taken to fill the vacancy.
- Faculty members published papers at national and international level.

Table 2.10 - Faculty International/ National journals Publications:

S.No	Faculty name	Department	Number of journals	
			International	**National**
1.	Dr.V.Velmurugan	MECH	31	1
2.	Dr.A.Umaamaheshvari	EEE	9	-
3.	Dr.C.R.Sindhuja	S&H	10	11
4.	Dr.G.Mahesh	MECH	14	-
5.	Dr.I.Shanthi	ECE	5	-
6.	Dr.S.Agnesia Kanimozhi	S&H	5	3
7.	Dr.A.Purushothaman	ECE	7	-
8.	Mrs.T.Rojamary	S&H	4	-
9.	Mr.M.Ramakrishnan	CSE	4	-
10	Dr T.R Heera	S&H	7	-
11	Mrs.B.Kogilavani	S&H	4	-
12	Mr.M.Prem kumar	MECH	1	-
13	Mr.S.Kannan	ECE	5	-
14	Mr.P.Muthukumaran	ECE	3	-

15	Mrs.R Prathipa	S&H	6	-
16	Mrs.G.Shymala	CIVIL	10	1
17	Mr.B.Logesh	MECH	2	-
18	Mr.M.Chandrasekar	MECH	1	-
17	Mr.K.Sathishkumar	MECH	1	-
18	Mr.P.Ramesh	MECH	1	-
19	Mr.K.M.Manickaraj	MECH	1	-
20	Mr.K.Karthikeyan	EEE	3	-
21	Mrs.N.Dheerthi	EEE	1	-
23	Mr.A.N.Swaminathen	CIVIL	2	-
24	Mr.V.Gopalakrishnan	S&H	1	-
25	Mr.N. Saravanakumar	CIVIL	2	-
26	Mr.C.Rajakumar	CIVIL	6	-
27	Dr.A.Sridevi	ECE	15	-
28	Mr.R.Sriram	ECE	1	-
29	Mr.V.D.Srihari	CSE	1	-
30	Ms.S.Biruntha	CSE	3	-
31	Ms.R.Deepika	CSE	3	-

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 institution in this direction and the outcome during the last three years.

- Highly qualified and experienced faculty members are offered with better salary.
- Our institution encourages the faculty members to undergo Workshops,

Seminars, Conferences and FDPs to update their knowledge in latest technology with few benefits.

- Facilities and incentives are provided for the staffs opting for higher qualifications.

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.

Teacher quality is the primary factor that bench marks the academic performance of an institution. Faculties are encouraged to attend enrichment programs hosted on and off campus.

Nomination to staff development programmes

Table 2.11 Faculty Deputed to Development Programmes

Academic Development Programme	No. of faculty
Staff training conducted by the University	1
Staff training conducted by other Institutions	24
Summer / Winter schools, Seminar workshops, etc.	120

Faculty Interaction off the Campus- FDP in IIT madras

Faculty Training programmes organized by the institution to empower and enable the use of various tools and technologies for improved teaching-learning.

Teaching learning process:

- Faculty members deliver lectures by various modes such as power point presentation, the use of e-resources like NPTEL etc. These methods are found to be very effective and self-explanatory as expressed by the students.

Curriculum:

- The College has experienced & qualified faculty members to handle the new curriculum effectively. Before the commencement of each semester the faculty member can choose the subject based on their choice. Finally the HOD allocates the subject in accordance with their choice, area of specialization and previous performance of the faculty member.

Development and enrichment programmes:

- Faculty members are encouraged to attend the National & International Conference, workshops and FDPs and also motivated to publish papers in national and international journal and Conference. Faculty members are advised to update the latest technologies existing in their relevant field and also advised to have experience in latest software and tools.

Faculty development program on Research Methodology

Class room:

- Class rooms are equipped with LCD Projection Systems which is helpful for faculty members to communicate their content to students. These facilities surely enhance lecture delivery and effective communication.
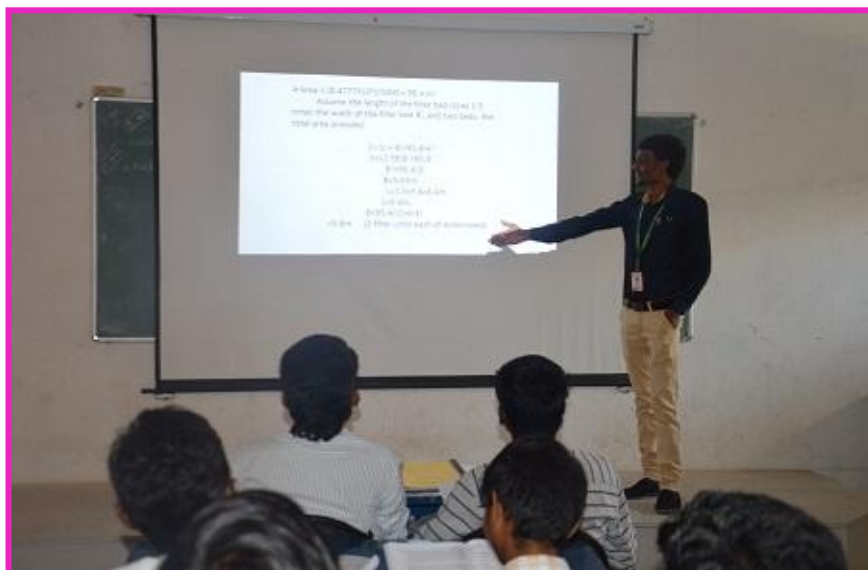
Class rooms with LCD Projection Systems

Teaching learning sources:

- Faculty members prepare the notes in hard copies from various reference books and make it available to students. The members of the faculty have free access to internet which helps them to collect learning material. The college library has various books and journals of various specializations.

Table 2.12 Faculty Interaction off the Campus

Event	Total number
Invited a resource person in Workshops / Seminars / Conferences organized by external professional agencies	4
Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies	69
Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies	54

One day workshop on raspberry pi

One day workshop on industrial expectation and sustainable development

One day workshop on PCB board design

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

Measure to promote faculty professional development and self growth by the institute.

- Staff members are encouraged and allowed to pursue higher studies in their respective fields.
- On Duty benefit is provided to the staff members those who are pursuing higher studies.
- Staff members are encouraged to organize/participate, National/International level conference, publish papers in National / International journals.
- Staff members securing 100% results in university examinations are encouraged.

- Research Lab facility has been established to help the faculty in the areas of research and publications.

- Arrangements of Soft skills & Personality Development classes.

- Industry personnel are often invited to share their knowledge with students/teachers.

- In-plant training and industry visits are arranged.

- Encouraged membership to Professional Societies and Chapters.

- Faculty members are recognized with additional increment in completion of PhD.

2.4.5 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.

Dr. V.Vel Murugan Principal, Sree Sakthi Engineering College, received "Unimilane Professional Excellence award" from Universita Popolare Degli Studi Dimilane in 2014.

Unimilane Professional Excellence award

2.4.6   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?

Yes. The feedback on faculty members is collected from students, parents and external peers for overall growth through a structured questionnaire online/ offline system. HODs and Principal interact and receive feedback from external faculty members who visit the institution during laboratory examinations on the performance of the students. Such feedbacks are used to devise a training programme for the faculty members and they are trained accordingly.

The institution has online system to collect feedback from students regularly at the end of a semester. Class committee meeting is conducted after internal assessment and problems are discussed in the committee meeting comprising of Students and faculty members. Based on the feedback, training and orientation programmes are conducted to tune the skills and improve the efficiency of teaching learning process.

2.5   EVALUATION PROCESS AND REFORMS

2.5.1   How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

The Exam schedules are intimated to the students through circular and displayed in the notice board. They are also informed about the question paper pattern, schemes of evaluation and the regulations that govern the conduct of practical examinations. Model question papers are available in the library. The marks scored and attendance is mailed to the parents and counseling is given along with parents whenever necessary.

The Exam cell of the institution in conformance with the University examination norms frames the schedule for the conduct of internal assessment. Guidelines for question paper setting, mark distribution, submission of question paper, conduct of tests, evaluation and uploading of marks are given.

Practical and theory evaluation is done by the University. At university level – Practical and Theory Examination are conducted and evaluation is done by the university through Central Valuation and our faculty contributes in the capacity of Paper Setter, Internal / External Examiner for practical, Supervisor for theory Examiner, evaluator for Theory Examination and Member of university representative.

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?

The institute has adopted various university reforms such as on-line entry of practical marks, attendance entry and internal mark entry for internal evaluation. Institution conducts three internal tests per semester. For instance, major reforms in question paper pattern and internal assessment methods were adopted.

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?

- Whenever class tests are conducted, the results of the student's performance/awards are shown to the students to encourage them or counsel them for better future performance.
- Students can apply for Revaluation and Challenge Revaluation procedures of

the University with refer to the end semester examinations.

- They organize to update the attendance and internal assessment evaluation marks in the web portal of Anna University every month as directed by the university.

- The formative and summative evaluation approaches adopted with attendance percentage are intimated to parents regularly.

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?

- As the college is affiliated to Anna University Chennai, reforms and regulations of the University in examinations and evaluation are followed.

- Even then for bringing about a positive change in the evaluation practices, the institution adopts both formative and summative methods of evaluation.

- Formative approach to evaluation includes measuring the student's achievement through seminars, assignments, paper presentation, return and practical test, overall attendance, group discussion; inter college symposium, and internal tests.

- The evaluation through these approaches gives lot of information about student achievement after teaching a particular unit.

- Summative evaluation is done during cycle tests. All faculty members follow the formative approach to measure students' achievements & performance through 1) Internal tests 2) assignments.

- For summative approach three cycle tests exam are conducted in the college. This is how the institution uses the formative and summative evolution approaches in the campus.

- This approach finally supports the student for the end semester examination conducted by Anna University.

2.5.5 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/ programme? Provide an analysis of the students' results/achievements (programme / course wise for last four years) and explain the differences if any and patterns of achievements across the programmes / courses offered.

- The college evaluates the students through three internal tests.

- The progress of the students in internal tests is informed to parents through letters and telephone (for slow-learners) and a report is sent to the Head of Institution after evaluating the test papers. The answer books are circulated to the students. Retests are conducted for those who are absent for the test with genuine reason. Remedial classes are conducted for the failures.

- The Attendance Percentage and internal test marks are calculated and displayed in the notice board and entered in the web portal of Anna University so that each student can verify their marks and attendance at any time.

- The report of internal test marks and attendance sent to the parents after the completion of each internal test. Parents are called in-person if their wards having attendance less than 75% and requested to contact their respective HOD and faculty advisor to improve their attendance.

- The parent- teachers meetings are conducted at least once per semester and students are counseled in addition to their parent's advice.

- Management Review Meeting (MRM) is conducted to present and analyze the overall performance of the students. University result analysis is done at micro and macro levels like subject wise analysis, comparison with other colleges, arrear analysis, list of toppers, individual subject wise failures, one, two, three subject failures, and grade wise analysis.

Table 2.13 Course Wise Results

UG Programmes					
Academic year	Course	No of students appeared	No of students graduated with in minimum period	Pass %	University ranks
2012-16	MECH	139	108	77.7	Nil
	CIVIL	61	37	60.65	Nil
	ECE	65	49	75.38	Nil
	CSE	46	28	60.9	Nil
	EEE	30	16	53.3	Nil
2011-15	MECH	136	99	72.8	Nil
	CIVIL	53	39	74	Nil
	ECE	43	19	44	Nil
	CSE	36	33	91.6	Nil
	EEE	37	6	15.78	Nil
2010-14	MECH	70	59	84.3	Nil
	CIVIL	65	57	87.69	1
	ECE	63	54	84	1
	CSE	57	52	91.2	1
	EEE	54	38	70.37	Nil
PG Programme					
Academic year	Course	No of students appeared	No of students passed	Pass %	University ranks
2014-16		7	7	100	Nil
2013-15		9	9	100	Nil
2012-14		18	18	100	1

Degree awarded to students for the batch 2011-15 during convocation

Degree awarded to students for the batch 2010-14 during convocation

2.5.6 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:

- Internal tests, monthly attendance and assignments are used to monitor and improve the performance of students. Retest and coaching classes are arranged for slow learners. Student seminars, assignments and group discussions help the student's behavioral aspects, independent learning, and communication skills, etc.

Transparency in Internal Assessment:

- After evaluation of the test papers, the results are discussed in the class. The results of the internal tests, model exam 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 which can be viewed at any time. Performance Letters of wards are sent to their parents. Information about the student having low attendance is also intimated to their parents through phone.

Weight age for behavioral aspects:

- The faculty member advice the students towards their academic performance, attitude and personality development. This helps during their campus placement and working environment in the real world situation. Training sessions are arranged by the training and placement cell to develop various skills among the students for overall improvement.

2.5.7 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.

The internal tests as well as grades obtained in the University examinations are the major indicator for evaluating student performance. However performance in other areas such as case studies, presentations, industry projects are recognized and rewarded.

2.5.8 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 the internal exams, the answer scripts are evaluated and distributed to the students. The grievances regarding the evaluation are represented by the students with subject faculty.

University level:

After the end semester examination the discrepancies in the question paper is intimated to the exam cell by the subject handling faculty. The examination cell coordinator 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 the photo copy of the answer paper and can apply for revaluation of the answer sheet. The subject handled staff evaluate the photocopy and recommend for the revaluation. The application for the revaluation is sent to the university by the exam cell coordinator. The university publishes the revaluation result after completion of the process. The students can apply for challenge revaluation if they have

any disagreement in the revaluation result. 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?

Yes, All the programmes have clearly defined outcome that are documented and approved by the HoD. The learning outcomes of each subject are added in the subject lesson plan. The lesson plan is circulated. The staff members will discuss about the objective and outcome of the subjects in the introduction classes.

2.6.2 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 plan is prepared by the concerned subject teacher before starting commencement of semester.
- As per the lesson plan the contents are delivered to the students and it is monitored by HoD. The content delivered is recorded in Log book and in the software ROVAN.
- Internal tests and model practical exams are conducted to evaluate the performance of students.
- Internal test and model practical exam, schedule are prepared by the

exam cell and based on the schedule the tests are conducted.

- Question papers are prepared by the concerned subject staff and sent to the exam cell where they are printed and kept as a confidential one.

- The performance of students in internal test and university exam are informed to the students and parents through letters.

- For the failures, 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.

2.6.3 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 takes enhanced steps to bring out the social and economic relevant to make the overall development of the students by indulging them in EDC, YRC and NSS to meet out the needs.

- Knowledge sharing has been done by conducting presentations and seminars in the various organizations.

- The institution has structured committees like Placement Cell, R&D Committee and allocation of tutors to help students to undertake social and economic responsibilities to attain great achievements.

- 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.

Training and placement cell
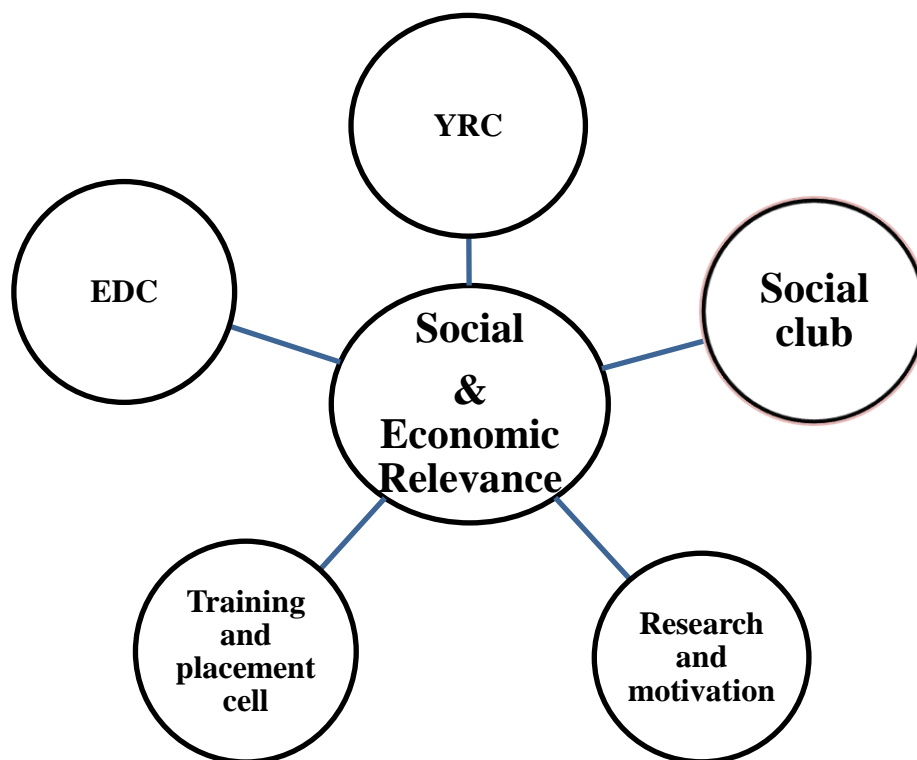
Social & Economic Relevance

2.6.4 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.
- Student feedbacks are collected and result analysis are discussed in Class Committee meetings to find out the barriers of learning in student level.
- 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. Providing question bank with answers and study material are provided for each subjects.
- Alumni feedback collected to modify or apply changes in the existing teaching methodology to overcome the barriers of learning.

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

The effective teaching learning process is monitored by

- Regular visit by the HoD to the class rooms.
- Class committee meetings.
- Student feedback system.
- Periodical departmental meeting.
- Records available in the log book, ISO & IQAC.
- The outcome of teaching learning process is measured by the evaluation system framed by the institute. The achievement of outcome is obtained

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through the performance and feedback from the stakeholders. Based on this the policies are framed to overcome the barriers.

2.6.6 What are the graduates attributes specified by the college / affiliating University? How does the college ensure the attainment of these by the students?

The institution has specified a few graduate attributes like development of professional, managerial and business skills, to employ scientific and technological knowledge for the betterment of the society and promote the all round development of the students.

The college organizes Lectures of eminent personalities, conducts programmes on Career Guidance, and organizes various programmes for the personality development of the students.

Students are given the responsibility to organize various programmes and activities. All this helps in ensuring the attainment of the graduate attributes specified by the college.

CRITERION – III RESEARCH, CONSULTANCY AND EXTENSION

3.1 PROMOTION OF RESEARCH

3.1.1   Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

Yes. Department of Electronics and Communication Engineering has been recognized as research centre under Anna University, Chennai.

3.1.2   Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes, the College has constituted a dedicated team of research advisory committee and it is very active in guiding both faculty and students to pursue quality research.

The research advisory committee consists of well experienced academic members to guide and co-ordinate the research related issues of each department as given below:

Table 3.1 Details of R&D Committee Members

S.No.	Name of The Faculty	Designation	Committee
1	Dr.M.Rajendran	Director– Academic & Research	Chairperson
2	Dr. V. Velmurugan	Principal	Convener

3	Dr. I.Shanthi	HOD-ECE	Member
4	Dr.A.Sridevi	Asso. Prof-ECE	Member
5	Dr. A. Purushothaman	Asst.Professor ECE	Member
6	Dr. G. Mahesh	HOD-Mechanical	Member
7	Dr. A. Umaamaheshwari	HOD-EEE	Member
8	Dr. Agnesia Konimozhi	Asst.Professor S&H	Member
9	Dr. C.R. Sinduja	Asst.Professor S&H	Member
10	Dr. T.R Heera	Asst.Professor S&H	Member

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

- Taking efforts to get approval for more departments as recognized research centers.
- To create a research culture in the institution, research awareness programs are to be conducted with the help of eminent researchers.
- 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 to organize and participate in more number of workshops relevant to their area of research.
- Faculty pursuing Ph.D can avail 10 days on duty per semester to carryout research work.
- Recommended incentives for publications in International / National journals with good impact factor.

- Pay hike for faculty who are completing Ph.D during their service at this institute.

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Table 3.2 Impacts on the Recommendations Made by the R&D Committee

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Name of the Department	Faculty Pursuing Ph.D.	Publications in Journals & Conferences
CIVIL	3	21
CSE	2	16
EEE	-	13
ECE	1	44
MECH	6	83
S&H	5	51

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?

- **Autonomy to the Principal investigator**

  As a matter of policy the Principal Investigator/ Chief Coordinator will be given autonomy for the execution and implementation of research projects and creating infrastructural facilities

- **Timely availability or release of resources**

  The Institution provides all facilities and maintains timely release of project funds as and when requested by the Principal Investigator for successful completion of the project on time.

- **Adequate infrastructure and human resources**

  All the departments have established adequate facilities like Wi-Fi enabled campus, research laboratories, sufficient work space, power, internet connection, necessary software and computing facilities to carryout research projects. Central library facilities are enhanced by updation of online national and international journals, digital library, hand books, reference books and material related to research activity.

- **Time-off, reduced teaching load, special leave etc. to teachers**

  Study leave is provided to carry out research work. Leave on duty is provided to attend doctoral committee meetings, viva-voce, presentation and other research related activities.

- **Support in terms of technology and information needs**

  The institute encourages the students and faculty to utilize the laboratories, library, computer centre and software packages such as CAD, MAT LAB, Lab view, Universal Testing machine, CREO, CNC Machining centre, Turning centre, IC Engines, XILINX System, NI ELVIS Hardware.

- **Facilitate timely auditing and submission of utilization certificate to the funding authorities**

  The finance department of the institute helps in the preparation of audited utilization certificate and getting the same attested by a chartered accountant. The administrative staff assists in submission of utilization certificate to the funding authorities as and when required.

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

The institution makes the following efforts for developing scientific temper and research culture:

- To create the zeal among the students and faculty members, the college has

procured latest research related equipments, department enriched with the library facilities and subscribed to research journals.

- Guidelines for students' project reports are compiled based on the guidance of external and internal reviewers, which helps students to compete in competitions and publish papers in journals.

- Guest lectures by eminent scientists, academicians and industrialists are organized regularly, such as, research opportunities and challenges, research methodologies and preparation of funding proposals.

- Students' participation in research oriented seminars and workshops at State and National levels are encouraged by providing appropriate financial support and on duty.

- Technical symposiums, educational tours, industrial tours, field trips, sample surveys are conducted to inculcate a scientific temper and research culture.

S.No	Student– Participation Details	2013-2014	2014-2015	2015-2016	2016-2017
1	Papers Presented in National, International Conferences and Technical Symposium	70	48	82	20
2	Participation in Workshop, Software Debugging, Quiz and other Events	41	46	58	38

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 pursue research in various domains resulting in publications and have also successfully integrated their research into teaching
- Faculty motivate a broad spectrum of engineering students by involving them in their respective research domains and assist them in publishing their work
  - Faculties are appointed as recognized supervisors for Ph.D. programmes and work in tandem with their scholars

Table 3.3 (a) Recognized Guides for M.Phil. And Ph.D. Programmes

S. No	Faculty Name	M.Phil / Ph.D.	University	No. of Research Scholars
1	Dr.M.Rajendran	Ph.D.	Bharathiar University	10
2	Dr. V.Velmurgan	Ph.D.	Anna University	8
3	Dr. I Shanthi	Ph.D.	Anna University	0
4	Dr.A. Umamaheswari	Ph.D.	Anna University	0
5	Dr.G.Mahesh	Ph.D.	Anna University	0

Table 3.3 (b) Faculty Pursuing Ph.D.

S. No	Faculty Name	University / Institute	Area of Specialization
DEPARTMENT OF CIVIL ENGINEERING			
1	Ms.G.Shyamala	Anna University	Environmental Engineering
2	Mr.A.N.Swaminathen	Anna University	High Performance Concrete
3	Mr.C.Rajakumar	Anna University	Soil Stabilisation
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
4	Mr.V.D.Srihari	Anna University	Data Mining
5	Mr.M.Ramakrishnan	St.Peters University	Networking
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING			
6	Mr.S.Kannan	Anna University	Adhoc Network
DEPARTMENT OF MECHANICAL ENGINEERING			
7	Mr.M.D.Ramnath	Anna University	Machine Tools
8	Mr.P.Ramesh	Anna University	Composite Materials
9	Mr.M.Chandrasekar	Anna University	Lean Manufacturing
10	Mr.N.Arul	Anna University	Robotics and Automation
11	Mr.S.Senthilvelan	Anna University	Casting
12	Mr.S.Pradeep	Anna University	Metallurgy - Alloying
DEPARTMENT OF SCIENCE AND HUMANITIES			
13	Ms.B.Kokilavani	Bharathiar University	American Literature
14	Ms.T.Rojamary	Bharathiar University	Stochastic Process
15	Mr.V.Gopalakrishan	Bharathiar University	Thin Film
16	Ms.N.Bagyalakshmi	Bharathiar University	Nano Technology
17	Ms.R.Prathipa	Bharathiar University	Polymer

3.1.6 Give details of 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.

Departments organize guest lectures, workshops, training programmes, sensitization programmes, national and international conferences on different research areas in engineering and technology, periodically. The Research Committee invites experts from the academia and research centers with the motive of imbibing research culture among the faculty members. Information regarding research related programmes organized by the University and other institutions are displayed regularly on the notice board, circulated among students and faculty and updated on the institute website to encourage student participation.

S.No	Department	Workshop/ Training Programme	Guest Lecture	Seminar	Symposium	Conference
1	Civil	4	5	1	-	2
2	CSE	6	1	-	2	-
3	ECE	4	8	1	-	1
4	EEE	4	4	-	1	1
5	Mechanical	3	2	2	2	-
6	S&H	-	4	-	-	-

Table 3.4 Details of Workshops/ Training Programmes Organized

Date	Dept	Title of the program	Resource Person
23.03.2017	Mech	National Level Technical Symposium, "MEXANIKIZ-2017"	Mr.S.Gnanasekar, COO, JS Autocast India Pvt. Ltd., Coimbatore.
22.03.2017	EEE	Guest Lecture on Book Engineering to Product Engineering	Mr.S.Sundaramoorthy, MD, Sunshiv Electronics,Coimbatore.
21.03.2017	ECE	National Level Technical Symposium "REFLECHIA- 2017"	Mr.C.Santhakumar, Director, Big Bodhi Academy, Coimbatore
20.03.2017	CSE	National Level Technical Symposium, "ZAPTIREZTA -2017"	Mr.Boobandrababu, CEO, Shloklabs Pvt. Ltd., Coimbatore.
03.03.2017	Civil	Seminar on sustainable water management: challenges in hydrological modeling	Dr.K.P. Sudheer Ph.d, Professor, IIT chennai,
31/1/2017	EEE	Guest Lecture on Electrical Machines	GD Electricals, Coimbatore
22/03/2016 & 22/03/2016	Mech	Workshop on " Non Destructive testing Methodologies and Techniques"	M.Kanakasabapathi, NDT, QC Engineer, Metal Testing Lab, Chennai
27/10/2016	Mech	One day workshop and onsite training on foundry technology	Mr.Sathya Narayana, Sree Sakthi Equipment, Coimbatore

12/04/2016	Mech	National Level Technical Symposium "MEXANIKIZ-2016"	Mr.S.Sokkalingam, Managing director, Integra automation, Coimbatore & Chennai
16/08/2016	Mech	Guest Lecture on Recent Trends in Production Technology	K. Vijaya Baskar, Vice President- GTN Engineering (INDIA)
23/09/2016	Mech	Guest Lecture on Latest Trends on Material Technology"	Dr.Ramasamy Sakthivel, Senior Principal Scientist, Department of Advanced Material Tecnology, Bhubaneshwar
27/07/2016 & 28/07/2016	CSE	Grid & cloud computing	Mr. Ramakrishnan Natarajan White Hat Global Solution, Cbe
17/08/2016	CSE	Guest Lecture on "Cyber Security"	Mr.Aravind S Venkatachalam, Cofounder & Director of Innoaccel solution Pvt., Ltd.,
01/08/2016 & 02/08/2016	CSE	Workshop on CORE JAVA	Ganesh Ramasamy, C3TECH, Coimbatore
07/04/2016	CSE	National Level Technical Symposium ZAPTIREZTA 2K16	Mr.Ramesh Srinivasan, Director – Data Operation, Owler Inc, Coimbatore
10/03/2016 & 11/03/2016	CSE	Inauguration of APP Developers club and workshop on Mobile application Development lab	Mr.Ramakrishnan Nataraja, Founder & CEO of WhiteHat Global Academy, Coimbatore
22/04/2016 & 23/04/2016	ECE	Two days national level workshop on real time embedded systems –back end tools	Dr. N. Kumaresan Anna University, Coimbatore

10/08/2016 & 12/08/2016	ECE	Two days workshop on PCB designing	Mr. P. Goutham Sr.Er., E-Craft. solution
14/03/2016	ECE	Guest Lecture on "EMBEDDED SYSTEMS"	Mr.P.Muthupandi Founder CEO of VEE Inc.Pvt, Ltd.,
23/07/2016	ECE	Guest Lecture on "Integrated Traffic Engineering system"	Mr.Shyam Jude, Founder CEO at Analog and Digital Labs, Coimbatore
12/02/2016	ECE	Guest Lecture on "Introduction to Image Processing using LABVIEW"	Mr.S.Muruganandhan- Engineer, Technical Support National Instruments, Bangalore
07/03/2016 & 08/03/2016	EEE	Two days workshop on Energy Auditing	Mr.M.Rameshkumar, Reliable Solutions
27/09/2016	EEE	One day workshop on WDS Design	E-Trainers, Coimbatore.
30/08/2016	Civil	Introduction of Geospatial Technologies and its application	Dr.D. Yuvaraj, Research and Dept of Geography, Govt. Arts College, Coimbatore.
03/08/2016	Civil	Civil Engineering orientation program in advanced construction technology in civil engineering project	Ms. Revathy, Sr. Manager, Tender ECCL Ltd, Chennai
10/09/2016	Civil	Guest Lecture on "Stability of Wharves and Jetties in Soft Riverine deposits"	Mr.Kaniraj Shenbaga, (Former Professor) IIT-Delhi
16/03/2016	Civil	National Conference on Modern construction materials and methods	Dr. P. Moorthy, Principal, Kathir college of Engineering.

05/03/2016	S&H	National science day 2016	Dr. K. Mani Former Professor, PSG Arts and Science College, CBE
24/08/2016	S&H	Guest Lecture Scientia 2016	Dr Anbazhagan Vijay. J, Prof in English, Govt College of Technology,CBE
23/03/2016	S&H	Guest Lecture on "Legal Literacy Class for students"-2016	Hon'ble Thiru. M.K. Rafi, B.A., B.L., Chairman/ District Munsif-Cum- Judicial Magistrate Taluk Legal Services Committee, Mettupalayam
05/03/2015	S&H	Scientia 2015	Dr K.Pradeep Kumar,Elite
22/07/2015 & 13/08/2015	Mech	Five days Workshop on Ansys	A+ CADD Center
14/03/2015	Mech	National Level Technical Symposium "MEXANIKIZ-2015"	Mr.N.Visvanathan, Managing Partner & Chief Executive Officer, Ammarun Foundries, Coimbatore.
10/08/2015 & 17/08/2015	ECE	Two days national level workshop on mobile servicing	Mr. M. Ranjith Kumar
18/02/2015	ECE	Guest Lecture on "Motivational Speech".	Dr.V.Lakshmiprabha, Principal, Government College of Technology, Coimbatore.
14/10/2015	ECE	Workshop on hands on training in PCB designing	Mr.P.Goutham, Sr.Er., E-Craft. solution
20/02/2015	CSE	A National level technical symposium	Mr. Sakthivel Manikandan, Robert Bosch
18/09/2015	CSE	Workshop on Open Source Lab	Mr. S. Baskar LinuXpert Systems, Chennai

30/07/2014 & 31/07/2014	CSE	Workshop on Open Source Lab	Mr. S. Baskar, LinuXpert Systems, Chennai
18/03/2015	Civil	Guest Lecture on waste water management	Dr. Ashwin Siddharth, Assistant Professor, Anna University-Coimbatore.
24/01/2015	Civil	One day workshop on Advanced construction techniques in civil engineering projects.	Dr.K.Divakar, Associate Professor, Coimbatore Institute of Tech, Coimbatore. Ms.Revathi, Senior Manager-Tender, Eccl-Ltd, Chennai. Dr.S.Ananda Kumar, Professor, Kongu Engineering College, Perundurai, Erode.
25/02/2015	EEE	Raspberry Pi One day National Level Workshop	Mr.Sathishkumar, Propulsion Technologies, Coimbatore
21/08/2015	EEE	Guest Lecture On Renewable Energy	Er.R.M.Ramanujam CEO-Super LED &Hi-energy systems
20/07/2015	EEE	One day workshop on Electronic circuit Design	Mr.N.Krishnaprakash, Tenere Technologies, Coimbatore
20/03/2015	S&H	Guest Lecture on "Motivational Talk"	Dr. N. Suryanarayanan, Retd. Professor, Govt Arts college,Cbe.
05/03/2015	S&H	SCIENTIA 2015	Mr.K.Pradeep Kumar, ELITE
13/08/2014	Civil	Advantages of Structure Analysis.	Mr. Saravana Kumar, Professor,

			Sri Venkateshwara Hi-Tech Engineering College.
06/08/2014	Civil	One day workshop on Industrial Expectation & Sustainable Development.	Dr. S.Neelamani, Senior Research Scientist, Kwait Institute Of Scientific Research, Kwait.
			Dr. G.Prince Arulraj, Professor & Dean, Dept of Civil Engg, SNS College of Technology, Coimbatore.
02/08/2014	ECE	Guest Lecture on "Wireless sensor network".	Dr.Vanathi, Professor, PSG College of Technology, Coimbatore.
17/09/2014	ECE	Guest lecturer on "Wireless Communication"	Dr. N.Sathishkumar, Associate Professor, Sri Ramakrishna Engineering College, Coimbatore.
07/09/2014	ECE	Guest lecturer on "MEMS".	Dr. B.Nataraj, Associate Professor, Sri Ramakrishna Engineering College, Coimbatore
13/08/2014	ECE	Guest lecturer on "Wireless OFDM Technology".	Dr. S.P.Vimal , Sri Ramakrishna Engineering College, Coimbatore.
10/09/2014	EEE	Guest Lecture on Power systems operations and control	Dr.S.Jagananthan, Asso. Professor, Dr NGP Institute of Technology
10/10/2014	EEE	One day national level technical symposium	Dr.Rajesh Thambi, Scientist "E" DRDO,Cochin.

28/02/2014 to 01/03/2014	Mech	Two day national level Robotics workshop and Championship Contest 2014-iSENSOBOTZ on Arduino	ARK Techno Solutions & Helios IIT Bombay
11/08/2014	Mech	Mechanical engineering association	Mr.Ganesh Jagadeesan, Joint Managing Director, Indo Shell Cast PVT LTD, Coimbatore.
30/07/2014 & 31/07/2014	CSE	Workshop on open source lab	Mr.S.Bhaskar, LINUXPERT systems Chennai
09/08/2014	S&H	Tamil Nadu Science Forum	Mr. Vigyan Prasar, ISRO
27/08/2014	S&H	SCIENTIA 2014	Dr.K. Pradeepkumar, ELITE

Guest Lecture by Dr.Ramasamy Sakthivel, Senior Principal Scientist, Department of Advanced Material Technology, Bhubaneshwar

Guest Lecture by Dr.P.T Vanathi, Professor,PSG College of Technology
Coimbatore

Guest Lecture by Mr.Boobandrababu, CEO, Shloklabs Pvt. Ltd., Coimbatore.

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

There are 10 Ph.D. Degree holders in the institute who work on different areas of Engineering, Technology and Science and Humanities.

Table 3.5 Details of Prioritized Research Areas and Experts

S.No	Faculty Name	Ph.D. Discipline	Research Area
1	Dr.M.Rajendran	Mechanical Engineering	Industrial Engineering, TQM, Composite Materials, Thermal Engineering
2	Dr. V. Velmurugan	Mechanical Engineering	Welding, Heat Transfer, Finite Element Analysis
3	Dr. G. Mahesh	Mechanical Engineering	Metal Cutting, Optimization
4	Dr. I. Shanthi	Information and Communication Engineering	Image Processing
5	Dr. A. Purushothaman	Information and Communication Engineering	Image and Video Processing, Video Tracking
6	Dr.A. Umaamaheshvari	Information and Communication Engineering	Digital Image Water Marking

7	Dr. S. Agnesia Kanimozhi	Science and Humanities	Corrosion
8	Dr.C.R.Sinduja	Science and Humanities	Metal Hydrazine complexes
9	Dr.A.Sridevi	Electronics and Communication Engineering	VLSI Design
10	Dr.T R Heera	Science and Humanities	Photo Voltaic Cell

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with staffs and students?

The institute arranges invited talks, workshops, seminars and conferences which provide a forum for interaction. The following is a list of eminent scholars who actively participated in such forums:

Table 3.6 Details of Visits by Researchers of Eminence

S.No	Date of Visit	Name of The Eminent Resource Person	Designation	Research Area
1	27/11/2010	Dr.Mylswamy Annadurai	Scientist, ISRO	Aerospace Engineering
2	27/11/2010	Dr.Karunakaran	Former Vice Chancellor, Anna University of Technology, Coimbatore.	Water Resource Management
3	19/03/2011	Dr.J.Jeyanthi	Associate Professor, GCT, Coimbatore	Environmental Engineering

4	01/10/2012	Dr.R.Vijayarajeshwaran	CEO, Vi Microsystems, Chennai	VLSI Design
5	09/07/2013	Dr.G.Mahesh	Prof, Mechanical, EASA, Coimbatore	Optimization
6	03/08/2013	Dr.K.Elangovan	Associate Professor, PSG, Coimbatore	Geographic Information System
7	02/08/2014	Dr.P.T.Vanathi	Prof, PSG Institute of Technology, Coimbatore	Wireless Communication
8	06/08/2014	Dr.S.Neelamani	Senior Research Scientist, WAIT Institute of Scientific Research, KWAIT	Environmental Engineering
9	06/08/2014	Dr.R.Anuradha	Associate Professor , College of Technology, Coimbatore	Structural Engineering
10	18/08/2014	Dr.B.Nataraj	Associate Professor, SREC, Coimbatore.	MEMS Technology
11	18/08/2014	Dr.N.Sathish kumar	Professor and Head, SREC, Coimbatore.	Wireless Communication
12	06/09/2014	Dr.K.Divakar	Associate Professor, CIET, Coimbatore	Construction Management

13	06/09/2014	Dr.S.Anandha Kumar	Professor, Kongu Engineering College, Perundurai, Erode.	Construction Management
14	18/02/2015	Dr.V.Lakshmi Prabha	Principal, GCT	Image Processing
15	21/02/2015	Dr.D.Sriram Kumar	Associate Professor and Head, NIT, Thirichy.	Wireless Communication
16	07/03/2015	Dr.R.Manisekar	Senior scientist, CSIR-Structural Engineering Research Centre	Structural Engineering
17	23/07/2016	Mr.Sam Jude	Analogue and Digital Lab	Embedded System
18	17/08/2016	Mr. Aravind S Venkatachalam	CEO Innoaccel Solution PVT Ltd	Cyber Security
19	10/09/2016	Dr.Kaniraj Shenbaga	IIT-Delhi	Research Methodology
20	23/09/2016	Dr. Ramasamy Sakthivel	Department of Advanced Material Technology, Bhubaneshwar	Advanced Material Technology
21	03/03/2017	Dr.K.P.Sudheer	Associate Professor, and Head EWRE Division, IIT, Madras	Hydrologic modeling

22	22/03/2017	Dr.A.L.Ashokkumar	Professor, PSG College of Technology	Power Electronics & Drives

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 yet to avail the facility. However the faculty members pursuing research are 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).

During each 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 departments also conduct 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 have done projects in several noteworthy industries.

Table 3.7 Lists of Projects with Social Relevance

Department	Year	Name of the Project	Industrial /Social Relevance
CSE	2016	An Android Application for Woman Safety	Mobile application
	2016	Data Leakage Detection and Prevention	Network security
	2015	Evaluating Wiki Mutual Skin Tone in Ontology Authorsing	Sans Pareil IT Services Private Limited, Chennai
	2014	Moving Object Detection using Alerting System	Surveillance camera
	2014	Recommendation on the Web Search by using Co-Occurrence	Search Engine
	2014	Web Search Result using Incremental Algorithm	Improving Online Search Results
	2014	KASR: A Keyword Aware Service Recommendation method on Map Reduce for Big Data Applications	Search Engine
EEE	2015	An efficient interleaved converter based PV-DVR for improving voltage quality	ITC, Coimbatore

	2015	Harmonic Elimination in ITC Corporation	ITC, Coimbatore
	2015	Multi-motors Control System using two wires for electricity generating station	Thermal Power Station, Tuticorin
	2015	Embedded Network Security System On Vehicle Theft Monitoring	Road Safety
ECE	2016	IOT Based Industrial Maintenance And Surveillance	Industrial and office
	2016	Automatics Vehicle Accident Detection And Messaging System Using GPS and GSM	Traffic management
	2016	Accurate and Efficient Object Tracking On Passive Rfid By Wireless Sensor	Mobile application and satellite communication
	2016	Vehicle Clearance Based on Intelligent Traffic Control	Home Application and Auto Machineries
	2014	Power Reduction using Multi Bit Flip-Flop	Industrial Safety
	2014	High Performance AES Design using Level	Fabrication of VLSI Chips

		Parallelism	
	2014	Design of Low Cast Image Scaling Processor using Single Line Buffer for Multimedia Application	Image Processing
	2014	Low Power Glitch Free Universal Gates Based Digitally Controlled Delay Lines	Fabrication of VLSI Chips
MECH	2016	Optimum Process Planning of 307 Housing	Production Area in Mechanical Industries and Ground Vehicle Systems
	2016	Process Optimization of Submersible Pump Stator and Winding System using FMEA	Pump Industries
	2016	Design and Fabrication of Oil Blending Machine for Making Lubricant Oil	Oil Refining Industries System Dynamics and Control Transportation Systems
		Modification of Bogie Mounted Brake Cylinder for	Southern Railways,

	2015	Effective Braking	Trichy
	2015	Fabrication of Sensor Based Ash Line Sourcing Removal System	Thermal Power Station, Tuticorin
	2015	Design of Hydraulic Motor Drive for Deflector Pinch Roll in AP line - II	Salem Steel Plant, Salem
	2015	Product Design Analysis for Conditional Failures – Rotary kiln	Genuine Shell Carb PVT ltd, Coimbatore
	2015	Optimization of Cost For Hot Forged Round Brass Watch Cases	Titan Company, Hosur
	2015	Design of Air Based Electromagnetic Retarder	Ashok Leyland Chennai
	2015	Investigation of the Characteristics of Cryogenic & non cryogenic treated Carbide Tool	Quality Improvement in Industries
	2015	Bio-Diesel Extraction From Crude Neem Oil	Alternate Energy
	2015	Railway Track Crack Detecting System	Railways
	2015	Design Of Modern Fixture	CRI pumps

	2015	Investigation Of Mechanical Properties of Banana Fiber Rein Forced Soyabean Composite	Composite field
	2014	Analysis of Defects in Foundry	Aqua Sub Engineering
CIVIL	2016	Comparative Study of Soil Stabilization using Rice Husk Ash and Coconut Husk Ash	Geotechnical engineering
	2016	A Study Of Factors Affecting Labour Productivity in Building	Construction management
	2016	Ground Water Quality Analysis by SVM Algorithm	Environmental engineering
	2016	Feasibility Study on Application Of Natural Coagulant	Water treatment engineering
	2016	Experimetnal Study on Durability Properties of High Grade Concrete using Mineral Chemical Admixtures	Structural Engineering
	2016	Influence of Mineral And Chemical Admixture To	Structural engineering

		Improve The Strength Properties of High Grade Concrete	
	2016	Assessment of Groundwater Quality Analysis By Rockworks 16 And Minitab	Environmental Engineering
	2015	Experimental Study on Strength Characteristics By Partial Replacement of Fly-Ash Cement And Steel Slag-R Sand in M20 Concrete	Reduction in Environmental Pollution and Application in Construction Industries
	2015	Partial Replacement of Foundry Sand in Paver Block	Reduction in Environmental Pollution and Application in Construction Industries
	2015	Sustainable and Economical Concrete by using of Foundry Sand in Paver Block	Reduction in Environmental Pollution and Application in Construction Industries
	2015	Strength Characteristic of HPC using Mineral	Improvement of Concrete Quality In

		Admixtures and Superplastizer	Construction Industries
	2015	Spatial Analysis of Ground Water Quality in Mettupalayam Taluk And Maping By Using GIS	Water Quality Improvements
	2015	Analysis of Surface Water Quality In Mettupalayam Using GIS	Water Quality Improvements
	2015	Spatial Analysis of River Water Quality of Bavani River By Using GIS	Water Quality Improvements
	2015	Experimental Study on Stabilization of Clay Soil Using Bagasse Ash	Application of Road Traffic
	2015	Analysis of Surface Water Quality In Mettupalayam Using GIS	Water Quality Improvements
	2015	Spatial Analysis of River Water Quality of Bavani River By Using GIS	Water Quality Improvements
	2015	GIS Application For Road Network of Mettupalayam Taluk	Application of Road Traffic

2015	Experimental Study on Gas Transportation and GPS Survey	Applications of Road Traffic
2014	Planning,Designing & Estimation of Sky Bus metro for Coimbatore City (by using Ansys Software)	Implementation of Transportation Engineering
2014	Statistical Analysis of ground water in Mettupalayam Taluk	Implementation of Water Quality management
2014	Spatial analysis of ground water quality of Mettupalayam Taluk-using GISsoftware	Implementation of Water Quality management
2014	Ground water modelling of Mettupalayam Taluk	Implementation of Water Quality management

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 institute does not have an exclusive budget head for research activity. However, financial assistance for all research related activities, purchase of journals,

books etc. is provided on need basis. Expenditure for the conduct of seminars, conferences and workshops are provided by the management if they are not funded by external funding agencies.

The institution has constituted a committee to formalize the process and make provision for promotion of research connected activities in its forthcoming budget.

Table 3.8 Budget for Research Connected Activities

S.No	Particulars (Past 4 Years)	Expenditure(Rs)
1	Procurement of Reference Books and magazines	11,46,049
2	Research promotional activities (Seminars, Workshops and Symposia, Conferences etc.)	5,85,500
3	Journals/Periodicals/E-Resources	6,95,863
4	Upgrading of laboratories with new equipments and softwares	1,20,96,723

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?

The institution has a proposal to provide seed money to the faculty for research in its forthcoming budget. The institute is planning exclusive R&D Account to support research related activities.

3.2.3 What are the financial provisions made available to support student research projects by students?

Though financial provisions are not usually made to support the research projects of all the students, best projects are suitably rewarded. Arrangements are also made for getting sponsorship of some of the companies for certain specific projects taken up by the students.

The institution is having special equipments for the students to carryout experiments other than those prescribed in the syllabus. Our labs are equipped with many special types of equipments with which research projects are carried out.

All the students can use the instruments in the labs, and have free access to online journals, printed journals, monographs etc. Faculty members guide the students to convert their innovative ideas into projects. Students are encouraged to take part in various competitions.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

The R&D Committee meets periodically to guide and monitor the interdisciplinary 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.

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 equipment and other research facilities available at the institution are adequate for conducting research by all those actively engaged in doing research. There are adequate numbers of computer terminals exclusively for research scholars with free access to internet facility. In addition, the library has subscribed to a large number of national and international journals in various subjects.

Library is also a member of DELNET which enables the research scholars and faculty to access thousands of online journals. The laboratory and library facilities available in the campus can be utilized by the staff and students involved in research which ensures optimal use of the resources.

The research and development centre maintains details of specifications, venue and availability of the tools which are used for research. The various centers have tools like Lab VIEW, AutoCAD, Pro-E/CREO, MATLAB etc. which are kept open till 5.30 pm with technical assistants to facilitate research. The library and the internet labs are also open till 5.30 pm and special transport facilities are provided for faculty and students who do research beyond working hours.

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 the machines from industries for developing research facility.

S.No.	Machine	Sponsored Industry	Amount Sanctioned (Rs)
1	CNC Turning Center	Sree Sakthi Equipments Company	11,68,993
2	CNC Machining Center	Sree Sakthi Equipments Company	20,05,626

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 Research Development Council sends information to the departments regarding the funding agencies. Research proposals have been sent to UGC, DRDO, DST, CSIR, AICTE, TNSCST, ISRO etc.

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 11171 volumes of books at a total cost of 33.4 lakhs.
- The Digital library has subscribed to the e-journals of DELNET.
- Internet facility of 12 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 17 disciplines with 320 video & web courses of 2 TB capacity for the benefit of students and faculty.
- In Mechanical Laboratory, CNC Turning Centre and CNC Machining Centre are used for research purpose.
- The institution has an academic alliance with Lab view and a lab has been set up.
- A R&D lab with various research facilities catering to the research related needs of various disciplines is under proposal in the forthcoming academic year.
- 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.

Table 3.9 Details of Research Facilities

Department	Name of the Lab	Tools / Equipments
Civil	SM Lab	Universal Testing Machine 40 Tonne
	Concrete Lab	Compaction Test Apparatus, Flexural Testing Machine
	Environmental lab	Nephelometer
	Soil lab	Triaxial Shear Tester, 3 Gang Consolidation Apparatus
	CAD Lab	STAAD PRO
	Hydraulics Lab	Turbines, Pumps, Adjustable Flow through Channel

CSE	Network Simulations	OPNET, NS2
ECE	EMBEDDED Lab	ORCAD Simulation Suite 8051 Microcontroller Development Kit ARM Microcontroller Development Kit PIC Microcontroller Development Kit ARM Development Board Stellaris LM3S8962 : 6 kits Embedded DSP Based System Designing Analog DSP Tool Kit : 6 kits Code Compressor Studio for Embedded DSP using Texas Tool Kit : 10 Kits
	Texas Instruments Lab	Analog Starter Kit :20 Kits , Steps Experimental Board : 20 KitsMSP430 Launch Pad : 20 kits , MSP5529 Experimental Board: 4 Kits C2000 Piccolo Launch Pad :40 Kits, Steps Experimental Board :20 Kits C2000 Peripheral Explorer Kit – TMDSPREX28335 : 40 Kits Steps Experimental Board : 20 Kits ANVYL Board :1 Kit ZED Board Zynq-7000 Development Board :1 Kit Mentor Graphics Hep-1 and Hep-2 (3 Yr License) : 40 User License ATLYS Spartan 6 FPGA Development Kit :5 Kits VIRTEX 5- GENESYS –Diligent :1 Kit

		NEXYS 3- Spartan 6 FPGA Board- Diligent :10 Kits XILINX - System Edition ver. 14.1 : 25 User License
EEE	Simulation Lab	MATLAB : 20 User, Power World : 40 license
MECH	Metrology	Tool Dynamometer
	Thermal Lab	IC Engine Test Rig with Data Acquisition.
	CAD Lab	MATLAB, Lab VIEW, ANSYS, Pro-E/CREO
	CAM Lab	CNC turning center , CNC machining center
	Manufacturing Technology Lab	Gear hobbing machine, Center lathe, Capstan lathe, Slotting machine, Cylindrical grinding machine, Surface grinding machine, Radial drilling machine, milling machines

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?

The Research and Development Council identifies the emerging research areas by considering the specialization of faculty and suggests the tools and training programs for faculty and students.

MoUs are signed with industries for identifying new thrust areas of importance to work towards delivering patents jointly

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

Yes. The institution has received the grants from industries for developing research facility.

S.No.	Machine Name	Sponsored Industry	Amount Sanctioned (Rs)
1	CNC Turning Center	SreeSakthi Equipments Company	11,68,993
2	CNC Machining Center	Sree Sakthi Equipments Company	20,05,626

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 MoUs signed with various organizations the augmentation of research facilities has been successfully done with Sree Sakthi Equipments Company, Karamadai.

- The faculty members pursuing Ph.D are allowed to avail extra on duty for doing the research work in other institutions, industries and organizations.

- All the faculty members are allowed to avail on duty facility for attending workshop, 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 research scholars from other institutions are allowed to access the research facilities available in the institution

- Students are encouraged to do the projects and research work in Sree Sakthi Equipments Company, GTN and Trident Companies etc..

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

- The library is enriched with 11171 volumes of books at a total cost of 33.4 lakhs.

- The library has subscribed to 60 printed journals for catering to the needs of various engineering disciplines.

- The Digital library has subscribed to the e-journals of DELNET.

- The library is enriched with e-journals, CD-ROM collection, and reprography facilities.

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

- Industry allied laboratories like LAB View Centre have been set up in the institution to facilitate research and development. These centers are functioning beyond college hours with technical assistants.

- Smart class room facility is available for access to students and faculty.

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)**
- **Original research contributing to product improvement**
- **Research studies or surveys benefiting the community or improving the services**
- **Research inputs contributing to new initiatives and social development**

The students of SSEC under the guidance from faculties have done research studies and surveys benefitting the local community and industries. Details are given in table 3.5**.**

3.4.2 Does the institute publish or partner in publication of research journals? If yes, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database.

Yes, our faculty members are reviewers of various international/national journals. The details are below.

Table 3.10 Details of Editorial Board Member/Reviewer

Name of the Faculty/Designation	Editorial Board Member/Reviewer
Dr.G.Mahesh	Reviewer for the following journal • Arabian Journal for Science and Engineering
Dr. A. Umaamaheshvari	Reviewer for the following journals • Information Technology

	Research Journal • Science Asia Journal • Journal of Intelligent and Fuzzy Systems • Journal of Medical Imaging and Health Informatics • British Journal of Medicine and Medical Research
Ms. R.Prathipa	Reviewer for the following journals • GRD Journals • International Journal of Emerging Technologies and Innovative Research

3.4.3 Give details of publications by the faculty and students.

Table 3.11 (b) Publications by Faculty

S.No	Faculty Name	Department	Number of Journals	
			INTERNATIONAL	NATIONAL
1	Dr.M.Rajendran	MECH	28	2
2.	Dr.V.Velmurugan	MECH	32	1
3.	Dr.A.Umaamaheshvari	EEE	9	-
4.	Dr.C.R.Sindhuja	S&H	10	11

5.	Dr.G.Mahesh	MECH	14	-
6.	Dr.I.Shanthi	ECE	5	-
7.	Dr.S.Agnesia Kanimozhi	S&H	5	3
8.	Dr.A.Purushothaman	ECE	7	-
9.	Mrs.T.Rojamary	S&H	4	-
10	Mr.M.Ramakrishnan	CSE	4	-
11	Dr T.R Heera	S&H	7	-
12	Mrs.B.Kogilavani	S&H	4	-
13	Mr.M.Prem kumar	MECH	1	-
14	Mr.S.Kannan	ECE	5	-
15	Mr.P.Muthukumaran	ECE	3	-
16	R Prathipa	S&H	6	-
17	Mrs.G.Shymala	CIVIL	10	1
18	Mr.B.Logesh	MECH	2	
17	Mr.M.Chandrasekar	MECH	1	
18	Mr.K.Sathishkumar	MECH	1	-
19	Mr.P.Ramesh	MECH	2	
20	Mr.K.M.Manickaraj	MECH	1	
21	Mr.K.Karthikeyan	EEE	3	

23	Mrs.N.Dheerthi	EEE	1	
24	Mr.A.N.Swaminathen	CIVIL	2	
25	Mr.N.Gopalakrishnan	S&H	1	
26	Mr.N. Saravanakumar	CIVIL	2	
27	Mr.Rajakumar C	CIVIL	6	
28	Dr.Sridevi A	ECE	15	
29	Mr.Sriram.R	ECE	1	
30	Mr.Srihari.VD	CSE	1	
31	Ms.Biruntha S	CSE	4	
32	Ms.Deepika R	CSE	3	
33	Mr.Srinivasan.L	CSE	2	
34	Ms.Yuvalatha S	CSE	2	

Table 3.11 (b) Publications by Students

S.No	Student Name	Department	Number of Journals	
			International	National
1	Hariharan.P	ECE	1	
2	Kavipriya.V	ECE	1	
3	Kavitha s	ECE	1	

4	Manoj R	ECE	1	
5	RemyaAyyapan	ECE	1	
6	Saranya.M	ECE	1	
7	Vidhya Baby	ECE	1	
8	Mrs.Savitha.A	ECE	1	
9	Ms.M.Mohanapriyaa	ECE	1	
10	Arunsathupathy raja	CSE	1	
11	Pavithra R	CSE	1	
12	Stalin V	CSE	1	
13	Vinitha Grace	CSE	1	
14	Jaya Balaji	CSE	1	
15	Thilagavathy	CSE	1	
16	Kubendiran	CSE	1	
17	Puspharagunath	CSE	1	
18	Venice Christopher	CSE	1	
19	Vignesh R	CSE	1	
20	Deepika S	CSE	1	

Table 3.12 (a) Publications of Books with ISBN

S.No	Faculty Name	Title	Publisher	ISBN No
1	Dr.V.VelMurugan	Engineering Mechanics	Inder Publications, Coimbatore	13 978-81-907657-1-8

Table 3.12 Publications of Journals with ISBN

S. No	Author	Chapter/Name	Publisher & ISBN No.	Year
1	Dr.M.Rajendran	Quality Audits: Their Status, Prowess and Future Focus	Managerial Auditing Journal, Volume 20, Issue 4	2005
2	Dr.M.Rajendran	Effect of Chemical Treatments on Mechanical Properties of Jute Fiber Hybrid Composite Laminates	International Journal of Engineering and Applied Sciences, Volume7, Issue 6	2012
3	Dr.M.Rajendran	Optimization of Natural Fiber/Glass Reinforced Polyester Hybrid Composites Laminate using Taguchi Methodology	International Journal of Materials and Biomaterials applications, Volume 2,Issue 2	2012
4	Dr.M.Rajendran	Bearing Strength Predications of Bolted Joints in Composite Laminates using Artificial Neural Network	International Journal of Fiber and Textile Research, Volume 2, Issue 2	2012

5	Dr.M.Rajendran	Investigation of the Performance Characteristics of Bolted Joints in Hybrid Composite Laminates	European Journal of Scientific Research, Volume 93, Issue3	2012
6	Dr.M.Rajendran	Investigation of Oven Cured Jute Fiber/Glass Reinforced Polyester Composites Laminate	Journal of Mechanical and Materials Engineering, Volume 7, Issue3	2012
7	Dr.M.Rajendran	Performance Characteristics of aCompression Ignition Engine Operated on Brassica Oil Methyl Esters	International Journal of Engineering and Applied Sciences, Volume 7, Issue 6	2012
8	Dr.M.Rajendran	Exhaust Emission Analysis using Nakthamala Oil Biodiesel Fuel In A C.I Engine with ANN	International Journal of Research in Environmental Science and Technology, Volume 2, Issue 2	2012
9	Dr.M.Rajendran	Emission Characteristics Of Mustard Oil Methyl Ester (MOME) – Diesel Fuel Blends On a C.I Engine	International Journal of Green Chemistry and Bioprocess, Volume 2, Issue 2	2012
10	Dr.M.Rajendran	Experimental Studies On The Performance And Emission Characteristics Of A Diesel Engine Fuelled With Heliant Oil Methyl Ester And Its Diesel Blends	European Journal of Scientific Research, Volume 93, Issue 3	2012

11	Dr.M.Rajendran	Performance Analysis of Tri-Fuel In a Single Cylinder Four Stroke Direct Injection Diesel Engine	Archives Des Sciences Journal, Volume66,Issue.2 ISSN:1661-464X	2012
12	Dr.M.Rajendran	Testing of Three-Fuel Mixture in a Four-Stroke Single Cylinder Direct Injection Diesel Engine	Transactions of FAMENA XXXVII-3, Volume37,Issue.3	2013
13	Dr.M.Rajendran	Wear Behavior Of Nano Graphite Reinforced Al6061-10 TiB2 Hybrid Composite using Powder Metallurgy	International Journal of Applied Engineering Research, Volume 10, Issue 2, ISSN 0973-4562	2015
14	Dr.M.Rajendran	Optimization Of Sliding Wear Parameters of Nano Graphite Reinforced Al6061-10TiB2 Hybrid Composite using Response Surface Methodology	International Journal of ChemTech Research, Volume8, Issue 11, ISSN: 0974-4290	2015
15	Dr.M.Rajendran	FT-IR Spectral Studies on Polluted Soils From Industrial Area At Karaikal,Puducherry State, South India	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 110	2013
16	Dr.M.Rajendran	Squeeze Casting-Influence of Squeeze Pressures on Das And Other Related Properties	Journal of Academia and Industrial Research, Volume 2, Issue1	2013

17	Dr.M.Rajendran	Determination of Binary Mixtures of Chemical Composition for Industrial Area Soils using FT-IR Method	Asia Pacific Journal of Research, Volume I, Issue 12.	2014
18	Dr.M.Rajendran	Mineralogical Identification on Polluted Soils using XRD Method.	Journal of Environmental Nanotechnology, Volume 3, Issue 2	2014
19	Dr.M.Rajendran	Physico- Chemical Analysis of Industrial Area Soils at Karaikal, India	International Journal of ChemTech Research , Volume6, Issue 14	2014
20	Dr.M.Rajendran	Investigation on Industrial Area Soil from Karaikal, Puducherry State using FT-IR, XRD, SEM And Thermal Analyses	International Research Journal of Engineering and Technology, Volume2, Issue3	2014
21	Dr.M.Rajendran	Applications of Composites: Review	International Journal of Applied Engineering Research, Volume9, Issue 24, ISSN 0973-4562	2014
22	Dr.M.Rajendran	Vibrational Analysis and Mechanical Properties of Epoxy Composite Material for Automobile Leaf Spring	Research Journal of Applied Sciences, Engineering and Technology, Volume 10, Issue 9	2015

23	Dr.M.Rajendran	Comprehensive Review of Solar Pond Process in Thermal/Electrical Energy Process	Journal of applied sciences Research, Volume 11, Issue 19	2015
24	Dr.M.Rajendran	A Review on Road Traffic Accident and Related Factors	International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 10, Issue 11	2015
25	Dr.M.Rajendran	Experimental Investigation on Impact of Container Geometry on Efficiency of Non-Buoyancy Body type Wave Energy Converter	Indian Journal of Science and Technology, Volume 8, Issue29	2015
26	Dr.M.Rajendran	An Overview on Hydrokinetic Energy Converter	Teri Information Digest on Energy and Environment, Volume 14, Issue 2	2015
27	Dr.M.Rajendran	Wave and Tidal Renewable Energy: Review	International Journal of Applied Engineering Research, Volume 10, Issue 9	2015
28	Dr.M.Rajendran	Renewable Energy Scenario in Tamil Nadu	Teri Information Digest on Energy and Environment, Volume 14, Issue 4	2015
29	Dr.M.Rajendran	Mechanical Behavior and Failure Analysis using Online Acoustic Emission	Materials Science and Engineering: A,	2015

		on Nano-Graphite Reinforced Al6061– 10TiB$_2$ Hybrid Composite using Powder Metallurgy	Volume 632	
30	Dr.M.Rajendran	Experimental Investigations on Material Characteristics of IN-SITU AL 6082- TiB2 Composites	International Journal of Chem Tech Research, Volume 9, Issue1.	2016
31	Dr.V.Velmurugan	Simulation of Multi – Pass Gas Metal Arc Welding of Structural Steel Plates	International Journal of Applied Engineering Research, Volume 5, Issue.21, ISSN 0973-4562	2010
32	Dr.V.Velmurugan	Optimization of Process Parameters to Minimize Angular Distortion in Gas Tungsten Arc Welded Stainless Steel 202 Grade Plates using Genetic Algorithms	International Journal of Engineering Science and Technology, Volume 2, Issue 5, ISSN 2278-9510	2010
33	Dr.V.Velmurugan	Prediction of Angular Distortion in 202 Grade Stainless Steel GTA Welded Plates using Artificial Neural Networks	Indian Welding Journal, Volume 6, Issue3, ISSN 0046-9092	2010
34	Dr.V.Velmurugan	Effect of Process	International Journal of	2010

		Parameters to Analyze Angular Distortion in 202 Grade Stainless Steel GTAW Plates	Manufacturing Science and Technology, Volume 6, Issue.1. ISSN : 1823-4690	
35	Dr.V.Velmurugan	Prediction of Tool Wear from Machining Parameters by Response Surface Methodology from End Milling	International Journal of Engineering Science and Technology, Volume 2, Issue.6.	2010
36	Dr.V.Velmurugan	Review on Porous and Non-Porous Flat Plate Air Collector with Mirror Enclosure	International Journal of Engineering Science and Technology, Volume 2, Issue 9.	2010
37	Dr.V.Velmurugan	Prediction of Vibration Amplitude from Machining Parameters by Response Surface Methodology from End Milling	International Journal of Advanced Manufacturing Technology, Volume 53, Issue 5, ISSN :0268-3768	2010
38	Dr.V.Velmurugan	Performance Improvement of Solar Air Heater using Inverted V Tubes For Drying Green Pepper	Journal of Current Sciences, Volume 15, Issue 1,	2010

39	Dr.V.Velmurugan	Fizzy Metrics in Supply Chain Agility	International Journal of Business Management and Research, Volume 1, Issue 2, ISSN 2249-6920	2011
40	Dr.V.Velmurugan	Effect of Welding Process Parameters on Weld Bead Geometry and Optimization of Process Parameters to Maximize Depth to Width Ratio for Stainless Steel Gas Tungsten Arc Welded Plates using Genetic Algorithm	European Journal of Scientific Research Volume 62, Issue 1, ISSN 1450-216X	2011
41	Dr.V.Velmurugan	Prediction and optimization of Depth of Penetration for Stainless Steel Gas Tungsten Arc Welded Plates using Artificial Neural Networks and Simulated Annealing Algorithm	Journal of Neural Computing and Applications, Volume 22, Issue 3, ISSN : 0941-0643	2011
42	Dr.V.Velmurugan	Optimization of Process Parameters to Minimize Angular Distortion in GTA Welded Stainless Steel 202 Grade Plates using Particle Swarm Optimization	Journal of Engineering Science and Technology, Volume 7, Issue 2, ISSN: 2333-9721	2012

43	Dr.V.Velmurugan	Effect of Process Parameters on Depth of Penetration in GTA Welded 202 Grade Stainless Steel Plates using Response Surface Methodology	The Journal of Engineering Research, Volume 9, Issue 1, ISSN: 2307-1877	2012
44	Dr.V.Velmurugan	Experimental Investigation For Mechanical Properties of Chopped Random Fibre Compression Moulded Sun hemp Polyester Composites	European Journal of Scientific Research, Volume 82, Issue 3, ISSN 1450-216X	2012
45	Dr.V.Velmurugan	Cutting Force Prediction Depending on Process Parameters by Response Surface Methodology in Milling	International Journal of Machining and Machinability of Materials, Volume 11, Issue 2	2012
46	Dr.V.Velmurugan	Improving Supply Chain Agility using Total Agile Design System	European Journal of Scientific Research, Volume 81, Issue 4, ISSN 1450-216X	2012
47	Dr.V.Velmurugan	Experimental Evaluation of Surface Roughness for End Milling of Al 6063 : Response Surface and Neural Network Model	International Journal of Manufacturing Research volume 7, Issue 1	2012

48	Dr.V.Velmurugan	Modeling and Analysis of Ferrite Number of Stainless Steel GTAW Plates using Response Surface Methodology	International Journal of Advanced Manufacturing Technology, Volume 64, Issue 9 -12	2012
49	Dr.V.Velmurugan	From Austere to Agile Supply Chains	Industrial Engineer	2013
50	Dr.V.Velmurugan	Energy Analysis of a Solar Photovoltaic-Thermal Hybrid Heat pump under hot humid climates	International Journal of Applied Engineering Research, Volume 9, Issue 24, ISSN 0973-4562	2014
51	Dr.V.Velmurugan	ASCTM Approach for Enterprise Agility	Procedia Engineering	2014
52	Dr.V.Velmurugan	Experiment Investigation of Solar Air Heater with Charcoal Porous Medium	Asian Journal Of Scientific Research, Volume 7, Issue 1 ISSN 1992-1454	2014
53	Dr.V.Velmurugan	Mechanical Behavior of Environmental Friendly Compression Molded Random Plant Fibre Polyester Composite	EM International Volume 33, Issue 1, ISSN 0257-8050	2014
54	Dr.V.Velmurugan	Barriers in Green Supply Chain Management : An Indian Foundry Perspective	International Journal of Research in Engineering and Technology Volume 3, Issue 7 ISSN 2319-1163	2014

55	Dr.V.Velmurugan	Investigation of Optimum Parameters for Mechanical Properties of Ecofriendly Molded Plant Fibre Polymer Matrix Composite by Experimental Methods	International Journal of Engineering And Technology Volume 6, Issue 1 ISSN 0975-4024	2014
56	Dr.V.Velmurugan	Artificial Neural Network Modeling of a Photovoltaic-Thermal Evaporator of Solar Assisted Heat Pumps	Energy, Volume 93,Part 1,	2015
57	Dr.V.Velmurugan	Comparison of Energy Performance of Heat Pumps using a Photovoltaic-Thermal Evaporator with Circular and Triangular Tube Configurations	Buildings and Simulation, Volume 9, Issue 1, ISSN 1996-3599	2015
58	Dr.V.Velmurugan	TADS: An Assessment Methodology for Agile Supply Chains	Journal of Applied Research and Technology Volume13, ISSN: 1665-6423	2015
59	Dr.V.Velmurugan	Artificial Neural Network Modeling of a Photovoltaic-Thermal Evaporator for Solar Assisted Heat Pumps	Energy, Volume 93, Part 1	2015

60	Dr.V.Velmurugan	Comparison of Energy Performance of Heat Pumps using a Photovoltaic-Thermal Evaporator with Circular and Triangular Tube Configurations	Buildings and Simulation, Volume 9, Issue-1	2016
61	Dr.V.Velmurugan	A Fuzzy Approach for Modeling and Design of Agile Supply Chains using Interpretive Structural Modeling	Jordan Journal of Mechanical and Industrial Engineering, Volume 10,Issue-1	2016
62	Dr.G.Mahesh	Experimentation and Prediction of Vibration Amplitude in End Milling with Reference to Radial Rake Angle	International Review of Mechanical Engineering, Volume 6, Issue6 ISSN 1970-8734	2012
63	Dr.G.Mahesh	A Review of Optimization Techniques, Effect of Process Parameters with Reference to Vibration in End Milling Process	European Journal of Scientific Research, Volume 6, Issue 2, ISSN 1450-216 X	2012
64	Dr.G.Mahesh	Experimentation and Prediction of Surface Roughness of The Machining Parameters with Reference to Rake Angle In End Mill	International Review of Mechanical Engineering, Volume 6, Issue7, ISSN 1970-8734	2012

65	Dr.G.Mahesh	Optimization of CNC Turning Process Parameters on Aluminium 6061 using Genetic Algorithm	International Journal of Science and Modern Engineering Volume-1, Issue-9, ISSN: 2319-6386	2013
66	Dr.G.Mahesh	Prediction of Surface Roughness of End Milling Operation using Genetic Algorithm	International Journal of Advanced Manufacturing Technology,	2014
67	Dr.G.Mahesh	Alkali Treated Maize Fibers Reinforced with Epoxy Poly Matrix Composites,	International Journal of Innovative Science and Modern Engineering Volume-2, Issue-5, ISSN: 2319-6386	2014
68	Dr.G.Mahesh	Effect of Machining Parameters and Optimization of Machining Time in Facing Operation using Response Surface Methodology and Genetic Algorithm	International Journal of Science and Technology, Volume 8, Issue 36, ISSN 0974-5645	2015
69	Dr.G.Mahesh	Distribution Analysis of Fluid in Circular and Square Header	International Journal of Advances in Marine Engineering and Renewables, Volume 1,Issue-2,	2015
70	Dr.G.Mahesh	Analysis of Mono Leaf Spring using Composite Materials International	Journal of Advances in Engineering, 2015 Volume 1,Issue 6,	2015

		Journal of Advances in Engineering	ISSN: 2394-9260	
71	Dr.G.Mahesh	Prediction and Optimization of Process Parameters on A22E (Bimetal Bearing) using RSM and Genetic Algorithm	International Journal of Applied Engineering Research, Volume 10, Issue 17, ISSN 0973-4562	2015
72	Dr.G.Mahesh	Prediction and Optimization of Tool Wear on A22E (Bimetal Bearing Material) Using RSM and Genetic Algorithm	International Journal of Mechanical & Mechatronics Engineering Volume15, Issue 5, ISSN: 2727	2015
73	Dr.G.Mahesh	Effect of Machining Parameters and Optimization of Machining Time in Facing Operation using RSM and Genetic Algorithm	International Journal of Science and Technology Volume8, Issue 36, 2015, ISSN:-6846	2015
74	Dr.G.Mahesh	Lean Production System and Total Productive Maintenance – A Strategic Approach	International Journal on Engineering Technology and Sciences, Volume 3, Issue 3 ISSN 2349-3976	2016
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243	Kubendiran	Recommendation on the Web Search by using Co	International Journal of Innovative Research in Computer and Communication Engineering	2014
244	Puspharagunath	Effective and Secure Transmission Approach for Multi Cluster based Wireless Sensor Networks	International Journal of Innovative Research in Computer and Communication Engineering, Volume 3, issue 3	2014
245	Venice Christopher	Effective and Secure Transmission Approach for Multi cluster based Wireless Sensor Networks	International Journal of Innovative Research in Computer and Communication Engineering	2014
246	Vignesh R	Effective and Secure Transmission Approach for Multi Cluster based Wireless Sensor Networks	International Journal of Innovative Research in Computer and Communication Engineering	2014

247	Deepika S	Effective and Secure Transmission Approach for Multi Cluster based Wireless Sensor Networks	International Journal of Innovative Research in Computer and Communication Engineering	2014

3.4.4 Provide details (if any) of

- **Research awards received by the faculty**
- **Recognition received by the faculty from reputed professional bodies and agencies Nationally and internationally**
- **Incentives given to faculty for receiving state, national and international recognitions for research contributions.**

The awards and recognitions received by our faculty members from reputed national and international professional bodies and agencies are listed as follows:

Table 3.13 Details of Awards and Recognition Received

Name of the Faculty/Designation	Awards & Recognition at the National / International Level
Dr.M.Rajendran	**Approved Supervisor for Ph.D.:** • Recognized as Supervisor by **Anna University, Chennai** to Guide Ph.D. Scholars in Mechanical Engineering Branch of specialization in Industrial Engineering, TQM, Composite Materials and Thermal Engineering. Anna University Reference No: 2820071
Dr.V.VelMurugan	**Approved Supervisor for Ph.D.:** • Recognized as Supervisor by **Anna University,**

	Chennai to Guide Ph.D. Scholars in Mechanical Engineering Branch of specialization in Mechanical Engineering. Anna University Reference No: 8520526
Dr.G.Mahesh	**Approved Supervisor for Ph.D.:** • Recognized as Supervisor by **Anna University, Chennai** to Guide Ph.D. Scholars in Mechanical Engineering Branch of specialization in Metal Cutting, Optimization and Vibration. Anna University Reference No: 2820089 **Reviewer for the following Journal:** • Arabian Journal for Science and Engineering
Dr.I.Shanthi	**Approved Supervisor for Ph.D.:** • Recognized as Supervisor by **Anna University, Chennai** to Guide Ph.D. Scholars in Information and Communication Engineering Branch of specialization in Image processing and pattern recognition. Anna University Reference No:2640002
Dr.A.Umamaheshwari	**Approved Supervisor for Ph.D.:** • Recognized as Supervisor by **Anna University, Chennai** to Guide Ph.D. Scholars in Information and Communication Engineering branch of specialization in Digital image processing, Network Security, Optimization Techniques and Medical Electronics Anna University Reference No**:**2840173 **Reviewer for the following journals:**

	• Information Technology Research Journal • Science Asia Journal • Journal of Intelligent and Fuzzy Systems • Journal of Medical Imaging and Health Informatics • British Journal of Medicine and Medical Research
Ms.R.Prathipa	**Reviewer for the following Journal:** • GRD Journals • International Journal of Emerging Technologies and Innovative Research

3.5 CONSULTANCY

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

Individual departments of our college interact with industries. The Objective of the interaction activities with industries are:

- To keep liaison with R&D organizations and industries for knowledge sharing.
- To bridge the gap between institute and industry.
- To arrange guest lectures by inviting experts from industry.
- To enhance inherent skills of faculty by arranging visits to industry.
- To develop the skills of the students, so they are employable.
- To have an exposure of the practical or real world problems.
- To explore the talent among students and faculty.
- To get acquainted with industry requirement, processes and managerial skills.

- The Training and Placement Cell is in contact with various industries to place our students in those companies. During the course they are able to find the skills required for working in the industry. Each department has signed MoUs with various industries with multi-purposes such as in-plant training, internship and projects.

- Industry tie-up helps to arrange in-plant training, internship and project work for the students in the industry atmosphere; moreover our faculty shares their knowledge through the training from the industries.

- Alumni of our college interact with our students to share their experience in the industry and the skills required for the industry.

- Faculty of our college visit many industries which may lead to consultancy work.

3.5.2   What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

- All the departments of our college have a list of faculty expertise with their domain area.

- The college is also having a list of facilities (Software, Equipment's etc.,) available for research and consultancy.

- MoUs 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 member 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 Inter-disciplinary projects.

- Faculties have the liberty to use research facilities available in the institution and are also encouraged to avail 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.

Table 3.14 Consultancy Services Offered/Identified

Department	Major Areas
CIVIL	Material, Concrete, Soil Properties Testing,
MECHANICAL	Bio fuel testing, Machining using CNC, Conventional Machines
ECE	Lab VIEW Based System Monitoring In Industries
CSE	Development of Webs Applications, Mobile Application Multimedia Applications
EEE	LT&HT Testing of Electrical Equipments, Energy Audit and Energy Conservation

S. No	Details Of Consultancy	Beneficiary	Period	Department	Resource Persons	Revenue Generated (Rs.)
1	Testing of Concrete Cubes	KKK Construction	March 2015 to April 2015	Civil Engineering	Mr.A.N. Swaminathen	300
2	Testing of Bricks	SK Associates	July 2015	Civil Engineering	Mr.A.N. Swaminathen	300
3	Testing of Concrete Cubes	Swami Associates	July 2015	Civil Engineering	Mr.A.N. Swaminathen	300
4	Testing of tensile strength of 4mm rod	Swami Associates	2015	Civil Engineering	Mr.A.N. Swaminathen	1500
5	Testing of Concrete Cubes	National Highway Udhagamandalam	Aug 2016	Civil Engineering	Ms.G.Shyamala	1500
6	Paver Block	National highway Udumalpet	Oct 2016	Civil Engineering	Ms.G.Shyamala	600
8	Testing of Concrete Cubes	National highway Coimbatore	Oct 2016	Civil Engineering	Ms.G.Shyamala	1000
9	SPT Test and Design	Municipality	Jan 2017	Civil Engineering	Ms.G.Shyamala	30000

		Udumalpet				
10	Soil test and design	Municipality Udumalpet	Jan 2017	Civil Engineering	Ms.G.Shyamala	69000
11	Machining of 1 Ton SBM Door Pin (16 Nos.)	Sree Sakthi Equipment Company	Feb 2017	Mechanical Engineering	Mr.Manokaran.M	1600
12	Machining of Door Bush Auto (32 Nos.)	Sree Sakthi Equipment Company	Feb 2017	Mechanical Engineering	Mr.Manokaran.M	3200
13	Machining of 300 SBM Dust Collector (10 Nos.)	Sree Sakthi Equipment Company	Feb 2017	Mechanical Engineering	Mr.Manokaran.M	1500
14	Machining of 5/8 x 1mtr Door Pin Bush (10 Nos.)	Sree Sakthi Equipment Company	Feb 2017	Mechanical Engineering	Mr.Manokaran.M	1000

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 income generated through consultancy will be shared by the staff and the institution in the ratio 60:40. The share of the institution will be utilized to develop laboratory and infrastructure facilities to provide more consultancy services.

3.6   EXTENSION   ACTIVITIES   AND   INSTITUTIONAL   SOCIAL RESPONSIBILITY (ISR)

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 institution motivates and encourage students of SSEC to interact with the neighborhood community in various activities involve various activities like Voters day pledge, Republic day and Independence day celebrations, Blood donation camps, cleaning road sides and Planting trees etc.,

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

Students are made aware of various clubs established in the institution. The roles and responsibilities in the effective functioning of these clubs, methods of execution of activities and other protocol are highlighted to them. The following clubs are functional: National Service Scheme (NSS), Tamil Mandram, Youth Red Cross (YRC), Rotaract Club,Women's Empowerment Cell, Fine arts Club.

Students register themselves in these clubs willingly and their active participation educates them on community integration.

The coordinators of the respective units track the involvement of the students. Students are also involved in donating blood through camps organized inside the premises, apart from emergency cases as and when they arise.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The Institution conducts Parent meeting and Alumni meeting to collect a feedback from which the strengths and challenges are understood. Suggestions and opinions are solicited from Guest Speakers, Industry representatives, Trainers of various Value Added Training Programme and Recruiters.

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 Institution organizes various social activities periodically through the departments. The organizers obtain their logistic support for the conduct of the activities as per the requirement. The office bearers are elected, a year planner is scheduled and guidelines are given by the Staff Coordinators.

Table 3.15 Extension Activities and Social Responsibility

S.No.	Date	Beneficiary	Extension Activity	Outcome
		Extension and Social Responsibility		
1	25.10.2010	Students of Various Schools from Coimbatore and Nilgiris District	State Level Science Exhibition. SSEC EXPO'10	Provided a platform to showcase special talents of School Students
2	25.01.2011	Students of SSEC	Voter's Day pledge	To create awareness and responsibility of Voting
3	15.08.2011	People and Students around Karamadi Locality	Marathon	65th Independence Day Celebration
4	05.09.2011	School Teachers in and around Coimbatore	Teacher's Day Celebration	Honoring School teachers in the way of encouraging their service
5	22.01.2012	Higher Secondary Passing School Students	'Nammal Mudiyum' - A Program for Higher Secondary Passing School Students regarding how to prepare for final exam.	Motivation and positive approach for HSC students

6	02.09.2012	Students of Various Schools from Coimbatore, Tirupur and Nilgiris District	Tamil Nadu Science Forum - Quiz Competition	To Express and Encourage the talents of School Kids
7	30.11.2012 01.12.2012 02.12.2012	Students of Various Schools from Coimbatore, Tirupur and Nilgiris District	20th National Children Science Congress	Knowledge the importance of Science and Technology among School Kids
8	11.09.2013	School Teachers in and around Madurai District	Sree Sakthi Academic Excellence Award 2013	Honoring and Encouraging School teachers for their excellence
9	22.12.2013	School Teachers in and around Coimbatore and Nilgiris District	Sree Sakthi Academic Excellence Award 2013	Honoring and Encouraging School teachers for their excellence
10	21.01.2014	Public	Voluntary Blood Donation Camp	Voluntary Blood Donation by Students of SSEC

11	09.03.2014	Diplomo Students From Various institutions across Tamil Nadu	Project Fest 2014- Project Competition	Provided a platform to showcase special talents of Diplomo Students
12	15.05.2014	Higher Secondary Passed School Students	Engineering Counselling Guidance	Extended support to HSC passed students to choose their right course and college
13	08.08.2014	Students of Various Schools from Coimbatore, Tirupur and Nilgiris District	Science and Math Fest - Tamil Nadu Science Forum	Conducted Various events and Knowledge the importance of Science and Technology among School Kids
14	09.08.2014			
15	27.09.2014	VIVEGAM Matric Hr Sec School	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
16	27.09.2014	Thambu Govt. Hr. Sec. School	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement

17	02.11.2014	School Teachers in and around Coimbatore and Nilgiris District	Sree Sakthi Academic Excellence Award 2014	Honoring and Encouraging School teachers for their excellence
18	14.11.2014	St Johns Matric Hr. Sec. School	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
19	13.11.2014	Immaculate Heart Of Mary Matric Hr. Sec. School	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
20	22.11.2014	National Matric Hr. Sec. School	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
21	28.11.2014	Govt. Hr. Sec. School, Sirumugaipudur	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement

22	04.01.2015	School Teachers in and around Madurai District	Sree Sakthi Academic Excellence Award 2014	Honoring and Encouraging School teachers for their excellence
23	04.01.2015	School Teachers in and around Theni District	Sree Sakthi Academic Excellence Award 2014	Honoring and Encouraging School teachers for their excellence
24	09.01.2015	Govt. Hr. Sec. School, Velliankadu	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
25	09.01.2015	Govt. Hr. Sec. School, Seeliyur.	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
26	13.01.2015	SRSI Matric Hr. Sec. School	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement

27	26.01.2015	GKD Matric Hr. Sec. School	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
28	29.1.2015	Govt. Hr. Sec. School, Bhujanganu.r	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
29	10.08.2015	School Students	World's Longest Finger imprint Flag by School Students	World Record attempt for the Memorial of Dr. A.P.J Abdul Kalam on 69th Independence day
30	24.12.2015	School Students	Cricket Tournament	To showcase their skills
30	09.01.20106	St. Johns Matric Hr. Sec School.	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement

31	13.01.2016	Immaculate Heart of Mary Matric Hr. Sec. School	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
32	26.01.2016	GKD Matric Hr. Sec. School	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
33	26.01.2016	Govt. Hr. Sec. School, Karamadai.	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
34	26.01.2016	Govt. Hr. Sec. School, Velliankadu	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
35	26.01.2016	National Matric Hr. Sec. School	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement

36	26.01.2016	Govt. Hr. Sec. School, Pethikuttai.	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
37	19.3.2016 & 20.03.2016	People of Tamilnadu	Mega Job Fair 2016	People got placement in various companies
38	28.09.2016	School Teachers, Karamadai	Computer Training	Teachers got knowledge to work with computers
39	26-12.2016- 31.12.2016	School Students, Karamadai Zone	Slow Learners Study Centre	Platform to have combined study
40	26.01.2017	Govt. Hr. Sec. School, Karamadai	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement

41	26.01.2017	Govt. Hr. Sec. School, Velliankadu	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
42	26.01.2017	National Matric Hr. Sec. School, Mettupalayam	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
43	26.01.2017	Govt. Hr. Sec. School, Bujanganur.	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
44	26.01.2017	Govt. Hr. Sec. School, Pethikuttai.	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement
45	26.01.2017	Gandhiji Hr. Sec. School, Sokkampalayam, Annur.	Honoring the Student Who got First Place in SSLC by Memento and Cash reward	Appreciation and Encouragement

State Level Science Exhibition. SSEC EXPO'10

State Level Science Exhibition. SSEC EXPO'10

Voter's Day Pledge

65th Independence Day Celebration – Marathon

Nammal Mudiyum

Tamil Nadu Science Forum - Quiz Competition

Cricket Tournament 2015

20th National Children Science Congress

20th National Children Science Congress

Sree Sakthi Academic Excellence Award 2013,Madurai

Sree Sakthi Academic Excellence Award 2013 Coimbatore

Blood Donation Camp

Project Fest 2014- Project Competition

Project Fest 2014- Project Competition

Engineering Counseling Guidance

Science and Math Fest - Tamil Nadu Science Forum

Sree Sakthi Academic Excellence Award 2014, Coimbatore.

Sree Sakthi Academic Excellence Award 2014 – Theni

Sree Sakthi Academic Excellence Award 2014 - Madurai

Honoring the Student who got First Place in SSLC with Memento and Cash Reward
(ST. JOHN'S School)

Honoring the Student who got First Place in SSLC with Memento and Cash Reward
(THAMBU School)

Honoring the Student who got First Place in SSLC with Memento and Cash Reward
(Vivekam School)

Honoring the Student who got First Place in SSLC with Memento and Cash

Reward (GHSS-Sirumugaipudur)

Honoring the Student who got First Place in SSLC with Memento and Cash Reward
(GKD Matric School)

World's Longest Finger Imprint Flag by School Students

World's Longest Finger Imprint Flag by School Students
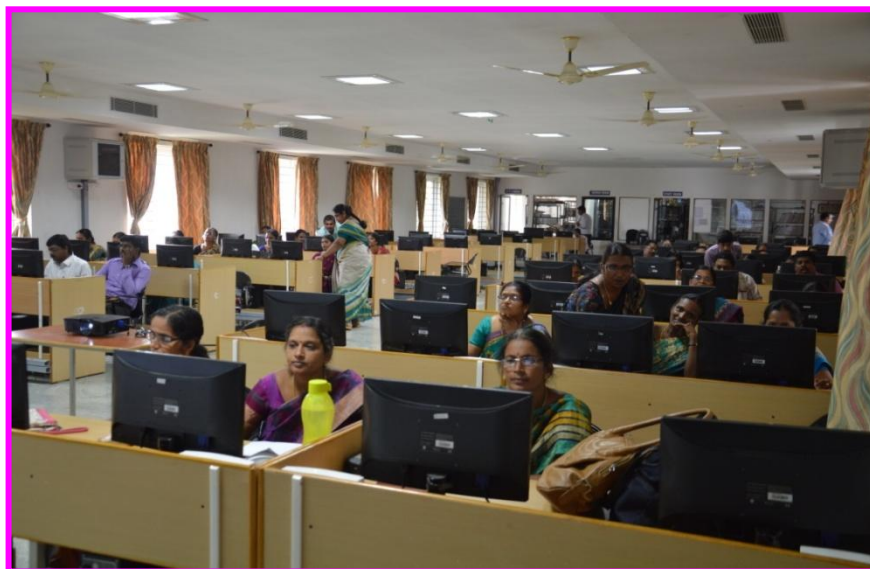
School Teachers Training

Honoring the Student who got First Place in SSLC with Memento and Cash Reward
(Govt. Hr. Sec. School, Pethikuttai)

Higher Secondary School students - Slow Learners Study Programme

Honoring the Student who got First Place in SSLC with Memento and Cash Reward
(Gandhiji Hr. Sec. School, Sokkampalayam, Annur)

Honoring the Student who got First Place in SSLC with Memento and Cash Reward
(National Matric Hr. Sec. School, Mettupalayam)

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, ENVIRO Club and Women Empowerment Cell, Tamil Mandram etc. The members of these clubs organize number of community service activities in rural areas in and around the institution.

3.6.6 Give detail on social surveys, research or extension work (If any) undertaking by college to ensure social justice and empower students from underprivileged and vulnerable sections of society?

The Institution ensures social justice and empowerment of the students from under-privileged and vulnerable sections of society by having the following practices:

- **Career Guidance Programme**

  Every year the Institution organizes career guidance programme for the higher secondary school students. The higher secondary school students from rural areas in and around Nilgiris are getting benefited through the above programme

- **Free education to merit students:**

  The Institution regularly offers free education for the economically weaker students with good academic score in the HSc. examinations

- **Awareness about various scholarships (Government / Private):**

  Students from under-privileged and vulnerable sections of society are encouraged to apply for various scholarship schemes being offered by the government and private agencies

- **Women Empowerment programmes:**

  The Institution organizes various women empowerment programmes through

women development cell

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

The faculty and students are involved in extension activities to take them closer to the community in which they live. Their interactions with the less privileged creates a sense of accountability and responsibility to their immediate society and to the nation at large. It enhances various qualities like leadership, team work, duty consciousness, sincerity, punctuality and honesty.

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 initiative of the institution that encourages community participation in its activities?

The outreach activities are designed to promote direct interaction between the students and the community.

- Students actively participate in blood donation camps.
- The Institution conducted the World's Longest Finger Imprint National Flag to increase the participation of the community and invoke patriotism towards the nation.
- The Institution is the centre for many zonal and Inter-zonal sports events.
- An ATM has been constructed to benefit the needs of the nearby Community.
- The invitation extended to parents / guardians either for a formal meeting or for informal visits during college Annual day   celebrations and

the Graduation Day ensures a special type of community interaction.

3.6.9 Give details on the constructive relationship forged (if any) with other institutions of the locality for working on the various outreach and extension activities?

- Mettupalayam Taluk Court and Advocates and Lawyers Association jointly conducted an awareness program on Women's Law.
- SSEC Organizes Voluntary Blood Donation camp with Lions Club.
- Faculty members and students from neighboring institutions are invited to the seminars and workshops.
- Students are invited and sent to attend job recruitment drives and trainings at other colleges.

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

- The Institution has received Best New Generation College Award by an Italian University 'Universita Popolare Degli Di Milano' for the achievements and accomplishments contributed to the society.
- The Institution has received Certificate of Appreciation for organizing a Voluntary Blood Donation Camp at SSEC Campus by Tamil Nadu AIDS Control Society and State Blood Transfusion Council, Chennai.

3.7 COLLABORATIONS

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 institution encourages staff members to pursue research projects from various funding agencies.
- MoUs with companies such as Six Phrase and FACE were signed for the development of soft skills and technical skills which resulted in improved placement of students in companies.

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.

The Institution has signed MoUs with several industries and reputed Institutes. Faculty and students benefit from these MoU's as they are being exposed to enriched knowledge and real time experiences.

Table 3.17 Details of MoU

S.NO	Department	Industry	Benefits
1		Get Set Go	Soft Skill Training
2	S&H	UB Genius	Soft Skill Training
3		Sri Meenakshi Industries	To Gain Industrial Konwledge
4		Be Positive Institute of Skilling	Soft skill training
5		TALENT Sprint Education Services Pvt Ltd, Coimbatore.	Soft skill training
6		Glossymob IT PVT Ltd	Value Added Programs
7	Placement	Key Mind Learning India Private Ltd, Coimbatore.	Soft skill training
8		TALENT Sprint Education Services Pvt. Ltd, Coimbatore.	Soft skill training
9		Six Phase - The Finishing School, Coimbatore.	To develop soft skill training.

10		FOCUS Academy for Career Enhancement, Coimbatore.	To develop soft skill training
11	Civil	V.Meenal Engineering construction	To expose the students for IV, Inplant training and intensive program
12		Vetri Construction	To felicitate the students for Seminar, GL and IV
13		Sharvas Construction, Pvt. Ltd., Coimbatore.	To train the engineering students and graduate in the work sites.
14		A+ CADD Centre	To improve fundamental knowledge and concept of the latest software provide hands-on training to students
15		M/s CADD Centre, Coimbatore	Value Added Programs
16	Mechanical	GTN Engineering, Coimbatore.	Training in work site and allows undertaking projects in the company.
17		Trident Pneumatics, Coimbatore.	Provide testing and fabrication facilities.
18		Sree sakthi Eqiupment Company Ltd.	Training in work site and allows undertaking projects in the company and faculty training

19		Pradeep Foundry Services	Students allowed to do projects and internship
20		Lakshmi Pumps and Engineering	To provide testing and fabrication facilities for the research scholars
21		A+ CADD Centre	Value added program
22		Akshaya automations	Conduct seminars & workshop, technical lecturers
23		Mansco Fluid Tek Private LTd, Coimbatore.	Develop hydraulic products
24		Fluidics Private Limited, Coimbatore.	To develop fluid mechanics and machinery lab
25		Madhan Industries	Students allowed to do projects and internship
26	ECE	UTL Technologies Ltd, Bangalore	Imparting quality education in the field of Embedded technology and related field.
27		VI Micro systems Pvt Ltd, Coimbatore	Provides a complete solution for various laboratories to target the requirement in advanced design and industry based technology.
28		BSNL,Coimbatore	To develop a special relationship where by effective telecom services to the extract possible from time to time are provided to SSEC

29		Advetech Pvt. Ltd, Coimbatore.	Imparting quality education in the field of Embedded technology and related field and for the design of projects.
30		Analog and Digital Labs, DB Road, RS Puram, Coimbatore.	To improve the skill set of students in research and development and make them industry ready engineers
31		Bigbodhi Academy, Coimbatore.	To provide platform for students to exercise their creativity, problem-solving, technical and team work skills.
32		Square Systems, Coimbatore	To improve the skill set of students in research and development on automation equipment, PLC based system etc.,
33		E- Craft Solutions, Coimbatore.	To improve the skill set of students in Electronics Automation and PCB Designing and Manufacturing.
34		Sunshiv Electronics, Coimbatore.	Students are allowed to do project
35	CSE	AES	To enhance fundamental knowledge and concept behind some of the latest technologies.
36		C3 Tech	To educate the students to work on their own dream and are inspired to develop their understanding abilities.

37		New Techno trends	Awareness courses on networking and firewall concepts.
38		GMR Technologies	Awareness courses on networking and firewall concepts.
39		Teclever solutions pvt Ltd	Enables students to navigate the maze of technology by providing solutions built on a foundation of deep technology knowledge and understanding of business ecosystems.
40		WhiteHat Global Academy	To educate the students on information security, ethical hacking training and solution provider.
41		New Technology	To expose the student about mobile and laptop servicing and allowed for internship training.
42	EEE	Isquare system	To provide knowledge about PLC & SCADA and training related to value added programme to students and to support placement
43		Sunshiv Electronics	To expose the students for industrial visit and Inplant training.
44		E Craft	Training related to value added programme to students and to support placement
45		New Technology	To expose the student about mobile and laptop servicing and allowed for internship training.

MoU with Analog and Digital Labs - 2016

MoU with Trident Pneumatics - 2016

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

- The institution has signed a number of MoUs that have yielded fruitful benefits

- An online repository of 3.5 TB worth of NPTEL contents with over 600 video and web courses of more than 300 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.

- Industry powered labs are set up in collaboration with top- notch companies like Labview to train the students and to enhance the research activities of staff.

- The Industry MoU partners offer training on the latest tools used in the industry.

- Faculty development programs organized

- Knowledge Partners for Conferences.

- Industries sponsored machines like CNC Machining Centre, Turning centre and Hydraulic Trainer.

3.7.4 Highlighting 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.

Table 3.16 Details of conference Conducted

Year	Name of the Event	Name and Designation of Resource Persons
2014	National Conference on Innovative Technologies and Development in Civil Engineering	Dr. R. Manisekar, Senior Scientist, CSIR -Structural Engineering Research Centre.
2015	National Conference on Research Issues in Signal, Image Processing And Communication-NCRISIPC 15	Dr.D. Sriram Kumar HOD/ECE NIT Trichy
2016	National conference on innovative trends in engineering & Sciences	Mr.Joseph PrayBell, ITC Coimbatore
	National Conference on Modern construction materials and methods	Dr. P. Moorthy Principal, Kathir college of Engineering
2017	National Conference on Innovative Trends in Engineering Sciences	Dr.L.Ashokkumar, Prof. PSG College of Technology

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:

The IIPC Cell works towards creating linkage between the industry and institution. Many linkages have resulted in formal MoUs.

- Curriculum Development/Enrichment - Value added courses are being offered through the MoUs to enrich the curriculum prescribed by the University.
- Students are provided with internships, projects and gain knowledge by factory visits.
- Faculty Exchange/ Professional Development - Details given in section 3.7.2
- Students and faculty have used the resources of the industry powered labs and won awards for their projects. Details exemplified in section 5.1.4.

Table 3.18 Details of MOU Benefits

S.NO	DEPARTMENT	No. of MoUs	ACTIVITIES	BENEFICIARIES
1	Civil	6	In-plant Training, Internship Training, Placement, Projects, Software development, Workshops & Seminars.	II, III, IV Students of all Branches.
2	CSE	7		
3	ECE	9		
4	EEE	4		
5	Mechanical	10		

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

The Institution inculcates a habit among the departments and IIPC to invite personnel from industries and institutes. The governing council of the college meets and shares the ways and means of integrating the inclusive growth with collaborators in addition to other constructive measures. HODs are exposed for the needs of linking department with other industries and institutes. Experts from industries are invited to deliver lectures for the students on the latest developments in the industries and industrial requirements. The linkages established with such industries help the institution to sign a MoU. More than 45 MoUs have been signed. Industrial visits, in-plant trainings, internships, projects and placements are arranged for the students in such industries.

CRITERION IV INFRASTRUCTURE AND LEARNING RESOURCES

4.1. PHYSICAL FACILITIES

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

The Institute has modern infrastructure like class rooms enabled with ICT facility, well equipped laboratories, well stocked library with online resource access, language laboratory, high bandwidth internet connectivity with Wi-Fi, seminar hall, high end computing facility in all departments and fully connected through LAN, canteen, uninterrupted power supply with generator facility, playgrounds, separate on campus hostels for girls and boys with required facilities.

Policy

The institutional policy shall strive hard continuously to achieve academic excellence in Science, Engineering and Technology to produce engineers and executives through innovative teaching methods by dedicated faculty and continuous process improvements.

The planning process

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.

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. Space for placement cell, exam cell, common rooms and space for co-curricular and extra-curricular activities are provided.

4.1.2   Detail the facilities available for Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

The institution provides holistic technical education which involves students' participation in both curricular and co-curricular activities for which adequate infrastructure is available. The details are given below. There are more than 25 class rooms, and they are:

- Spacious, properly lit and ventilated.
- Easily accessible with access to multiple stair case.
- Smart Class room with LCD projectors.

TABLE 4.1: LABORATORY FACILITIES

S. NO	DEPT	LABORATORY	AREA (Sq.m)
1	S&H	Physics Laboratory I	139.35
		Physics Laboratory II	
		Chemistry Laboratory I	167.22
		Chemistry Laboratory II	
2	MECH	Manufacturing Technology Laboratory I	245.26
		Manufacturing Technology Laboratory II	
		Thermal Laboratory I	275.91
		Thermal Laboratory II	
		Computer Aided Drafting & Modeling Laboratory	92.00
		CAD/CAM Laboratory	
		Computer Aided Simulation & Analysis Laboratory	
		CAD Laboratory	
		Mechatronics Laboratory	122.63

		Dynamics Laboratory	111.48
		Work Shop	222.96
		Metrology and Measurements Laboratory	91.97
3	EEE	Power Electronics Laboratory	167.22
		Power System and Simulation Laboratory	167.22
		Control and Instrumentation Laboratory	167.22
		Engineering Practices Laboratory	167.22
		Circuit Theory Laboratory	

4	ECE	Electrical Machines Laboratory I	222.96
		Electrical Machines Laboratory II	
		Electrical Engineering and Control Systems Laboratory	
		Electrical Engineering Laboratory	
		Circuits and Devices Laboratory	250.83
		Circuits and Simulation Integrated Laboratory	
		Communication Systems Laboratory	
		Analog and Digital Circuits Laboratory	250.83
		Linear Integrated Circuits Laboratory	
		Digital Laboratory	
		Microprocessor and Microcontroller Laboratory	250.83
		Optical and Microwave Laboratory	
		VLSI Design Laboratory	111.48
		Digital Signal Processing Laboratory	
		Computer Networks Laboratory	
		VLSI Design Laboratory I	

		VLSI Design Laboratory II	
5	CSE	Programming and Data Structures Laboratory I	250.83
		Programming and Data Structures Laboratory II	
		Database Management Systems Laboratory	
		Networks Laboratory	
		Operating System Laboratory	
		CASE Tools Laboratory	
		Internet Programming Laboratory	
		Computer Graphics Lab	
		Mobile Application and Developing Laboratory	
		Compiler L Laboratory	
		Security Laboratory	
		Grid and Cloud Computing Laboratory	
		OOPS and Data Structures Laboratory	
		OOPS Laboratory	
		Computer Practice Laboratory	167.22

		Communication and Soft Skills Laboratory	167.22
6	CIVIL	Soil Mechanics Laboratory	143.99
		Environmental Engineering Laboratory	174.65
		Fluid Mechanics Laboratory	183.94
		Fluid Mechanics Laboratory (MECH)	
		Applied Hydraulics Engineering Laboratory	
		Strength of Materials Laboratory	122.63
		Strength of Materials Laboratory (MECH)	
		Concrete and Highway Laboratory	153.28
		Surveying Laboratory	18.58
		CAD Laboratory	61.31

Technology assisted learning environment:

Auditorium with a seating capacity of 1000 is available to conduct meetings, Conferences and Workshops. In addition, a seminar hall with the seating capacity of 250 is also available in the first floor. The Seminar hall has LCD projector, PA system and Wi-Fi connectivity. Apart from this every department has a separate technology enabled class rooms.

Computer Facility:

The institution has computer terminals to inculcate constructive aptitude and computing skills 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 10 Mbps speed + 2Mbps

TABLE 4.2: INFRASTRUCTURE FACILITIES ACADEMIC ACTIVITIES

S. NO	DETAILS	NUMBER	AVAILABLE AREA (Sq.m)
1	Class rooms	23	1956.52
2	Smart Class Rooms	6	510
3	Drawing hall	1	167.22
4	Seminar hall	1	250.83
5	Auditorium	1	668.9
6	Library	1	400

TABLE 4.3: ADMINISTRATIVE AREA

S. NO	DETAILS	NUMBER	AVAILABLE AREA (Sq.m)
1	Director room	1	16
2	Principal room	1	39.01
3	Conference room	1	55.74
4	Office room	1	167.22
5	HOD rooms	6	96.61
6	Faculty rooms	-	621.52
7	Physical Director Room	1	55.74
8	Security	1	10
9	House keeping	1	10
10	Exam cell	1	55.74
11	Placement cell	1	83.61

TABLE 4.4: AMENITIES AREA

S. NO	DETAILS	NUMBER	AVAILABLE AREA (Sq.m)
1	Toilets (Ladies & Gents)	9	707.92
2	Cafeteria	1	313.54
3	Stationary stores / Reprographics	1	20.9
4	Health center	1	10.22
5	Sports	1	13510
6	Boys Hostel	1	4013.41
7	Girls Hostel	1	1337.8
8	Guest House	1	27.87
9	Car Parking	1	41.80

Main Block

Mechanical & Civil Block

Electrical and Electronics Department

Science and Humanities Department

Department of Computer Science and Engineering

Department of Electronics and Communication Engineering

Auditorium

SSEC Seminar Hall

SSEC Library

Mechanical Engineering Laboratory

Mechanical Engineering Laboratory

Electrical and Electronics Engineering Laboratory

Electrical and Electronics Engineering Laboratory

Computer Science and Engineering Laboratory

Computer Science and Engineering Laboratory

Electronics and Communication Engineering Laboratory

Electronics and Communication Engineering Laboratory

Chemistry Laboratory

Physics Laboratory

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

The institution has an indoor play ground available at auditorium which is utilized by the students. The indoor sports of our institution are Shuttle Badminton, Table tennis, Carom and Chess. The college has a huge playground for outdoor sports activities like Kabaddi, Cricket, Net Practice for Cricket, Football, Volley ball, Throw ball, Ball Badminton, Hockey, Handball, Basketball, track and field.

TABLE 4.5(a): FACILITY FOR SPORTS ACTIVITIES

ACADEMIC YEAR	LEVEL OF THE SPORTS ACTIVITY	TITLE OF THE SPORTS ACTIVITY	POSITION
2010 - 2011	Zonal/ Outdoor	100 m & 200 m	First
	Zonal/ Outdoor	Athletics men	Participated
2011 - 2012	Zonal/ Outdoor	Hockey	Participated
	Inter Zonal/ Outdoor	Hockey	Qualified
	Zonal/ Outdoor	Athletics Team	Second
	Zonal/ Outdoor	Football	Second
	Zonal/ Outdoor	Kabaddi Team	Qualified
2012 - 2013	Zonal/ Outdoor	Athletics	Overall champion
2013 - 2014	Inter Zonal/ Outdoor	Kho Kho	Participated
	Inter Zonal/ Outdoor	Basket Ball Team	Participated
	Inter Zonal/ Outdoor	Cricket	Participated
	Inter Zonal/ Outdoor	Kabaddi	Participated

	Inter Zonal/ Outdoor	Athletics	Participated
2014 - 2015	Zonal/ Outdoor	Cricket	Third
	Zonal/ Outdoor	Foot Ball	Third
2015 - 2016	Zonal/ Outdoor	Chess	Third
	Zonal/ Outdoor	Hockey	Third
2016 - 2017	Zonal/Outdoor	Hokey	Third
	Zonal/Outdoor(CIT ,Coimbatore)	Kabaddi	Second
	Zonal/Outdoor(Sasurie Academy of engineering)	Kabaddi	Second
	Zonal/Outdoor(Sasurie Academy of engineering)	Kabaddi	Second
	Zonal/Outdoor(Sasurie Academy of engineering)	Cricket	Second
	Zonal/Outdoor(Sasurie Academy of engineering)	Foot ball	Fourth Place
	Zonal/Outdoor(AIT,Coimbatore)	**Basket ball**	Fourth Place
C.Kamalahasan	Zone XI (KCT) IV/Mech	5000mts and 1500mts	Second place
R.Devaraj	I/Mech Zone XI (KCT)	20km	Second place

M.Yogeshkumar	III/Mech Zone XI (KCT)	400mts	Third place
S.Thirupathi	I/Mech III/Mech Zone XI	5000mts	First place
C.Kamalahasan	IV/Mech	Mini Marathan at coonoor, Ministry of defance wellington	First Place
C.Kamalahasan	IV/Mech	Mini Marathan at CIT,Coimbatore	First Place
C.Kamalahasan	IV/Mech	Sri Annai Karangal nala sangam periyanakikanplayam, Coimbatore	Second Place
C.Kamalahasan	IV/Mech	RunnersCliub, Annur	First place

Intramural Tournaments:

S.No	Event	Place	Name	Year & Dept
1	100 Mts	First Place	M.Mahalakhsmi	I BE ECE
		Second Place	A.Yazhini	I BE EEE
		Third Place	A.Maheswari	IV BE ECE
2	200 Mts	First Place	M.Mahalakhsmi	I BE ECE
		Second Place	A.Yazhini	I BE EEE
		Third Place	A.Maheswari	IV BE ECE

3	400 Mts	First Place	V.Yuvarani	II BE ECE
		Second Place	S.Jenifer	III BE ECE
		Third Place	S.Divyasree	III BE ECE
4	800 Mts	First Place	S.Lumina Blessy	II BE CSE
		Second Place	P.Sankari	IV BE CIVIL
		Third Place	C.Kalaimathi	III BE ECE
5	1500 Mts	First Place	V.Yuvarani	II BE ECE
		Second Place	P.Sankari	IV BE CIVIL
		Third Place	S.Gracy Selvamala	II BE EEE
6	Shot put	First Place	M.Indrapriyadharshini	IV BE CIVIL
		Second Place	M.Jeniferramya	IV BE CIVIL
		Third Place	M.Subbulakshmi	II BE ECE
7	Discuss	First Place	S.Nirmaladevi	III BE CIVIL
		Second Place	M.Jeniferramya	IV BE CIVIL
		Third Place	M.Subbulakshmi	II BE ECE
8	Javelin	First Place	P.Jagapriya	I BE EEE
		Second Place	D.Poorani	IV BE CIVIL
		Third Place	S.Gowsalya	I BE ECE
9	4x400 M Relay	First Place	Maheswari,Sankari, Jenifer,Yazhini	Chola
		Second Place	Mahalakshmi,Divyasree,Luminablesy,Susi	Pallava
		Third Place	Kalaimathi,Yuvarani,Priya,Sownthariya	Pandiya
10	Individual Champion Boys		C.Kamalahasan (Pandiya)	IV BE MECH
11	Individual Champion Girls		M.Mahalakshmi (Pallava)	I BE ECE
12	Individual Champion Girls		V.Yuvarani (Pandiya)	II BE ECE

S.No	Event	Place	Name	Year & Dept
1		First Place	R.Ranjithkumar	I BE MECH
2	100 Mts	Second Place	A.Thiyagarajan	I BE MECH
3		Third Place	S.Suresh	III BE CIVIL
4		First Place	R.Ranjithkumar	I BE MECH
5	200 Mts	Second Place	A.Thiyagarajan	I BE MECH
6		Third Place	M.Pugalendhi	I BE CIVIL
7		First Place	J.Pugazhenthi	III BE MECH
8	400 Mts	Second Place	A.Thiyagarajan	I BE MECH
9		Third Place	M.Yogeshkumar	III BE MECH
10		First Place	E.Kamaraj	IV BE CSE
11	800 Mts	Second Place	J.Pugazhenthi	III BE MECH
12		Third Place	T.Ramkuamr	II BE CIVIL
13		First Place	C.Kamalahasan	IV BE MECH
14	1500 Mts	Second Place	E.Kamaraj	IV BE CSE
15		Third Place	R.Devaraj	I BE MECH
16		First Place	C.kamalahasan	III BE MECH
17	5000 Mts	Second Place	R.Devaraj	I BE MECH
18		Third Place	E.Kamaraj	IV BE CSE
19		First Place	C.Kamalahasan	III BE MECH
20	10000 Mts	Second Place	R.Devaraj	I BE MECH
21		Third Place	M.Logeshwaran	I BE CSE
22		First Place	S.Raju	III BE CIVIL
23	Shot put	Second Place	N.S.Gobikrishnan	II BE MECH
24		Third Place	B.Ramakrishnan	III BE CIVIL
25		First Place	B.Ramakrishnan	III BE CIVIL
26	Discuss	Second Place	R.Vijai	III BE CSE
27		Third Place	S.Suresh	III BE CIVIL

28		First Place	R.Silambarasan	IV BE MECH
29	Javelin	Second Place	R.Vijai	III BE CSE
30		Third Place	M.Thirumurugan	III BE EEE

TABLE 4.5(b): FACILITY FOR EXTRA-CURRICULAR ACTIVITIES

S. NO	EXTRA-CURRICULAR FACILITY	ACTIVITIES
1	Cultural Activities	The college has well equipped multipurpose seminar hall and main auditorium which are used for the major cultural events of the college.
2	Language Lab	Lab with latest hi-class software is available. 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.
3	Other Facilities	To cater to the needs of the faculty and students a fleet of buses, a canteen and stationery shop with reprographic facilities are available.
4	Medical facility	The medical needs of the students are taken care in the nearby hospital. There is always a separate vehicle stationed at the college/hostel premises.

SSEC Volley Ball Ground

SSEC Kabaddi Ground

SSEC Cricket Ground

SSEC Indoor Game

SSEC Indoor Game

SSEC Kabbadi (Zonal level Winners)

SSEC Hockey Team (Zonal level Winners)

SSEC Basket Ball Ground

SSEC Basket Ball Ground

SSEC Yoga Class

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.
- Offline / Online exams for placement training
- Industry projects and Research.
- Sports, games and tournament.

TABLE 4.6:   DETAILS OF AMOUNT SPENT ON BUILDING CONSTRUCTION FOR THE PAST 4 YEARS IS GIVEN BELOW

DESCRIPTION	2014-2015	2013-2014	2012-2013	2011-2012	2010-2012
Building	**Nil**	9,37,07,816	9,16,52,516	9,10,93,798	6,95,63,715

Table 4.7: Laboratory Budget details

Academic Year	Particulars	Amounts Spent (in Rs)
Department of Civil Engineering		
2012-2013	Laboratory Equipments and Laboratory Consumable, Maintenance	1,07,785,3
2013-2014	Laboratory Equipments and Laboratory Consumable, Maintenance	-
2014-2015	Laboratory Equipments and Laboratory Consumable, Maintenance	1,43,000,8
2015-2016	Laboratory Equipments and Laboratory Consumable, Maintenance	2,23,060
2016-2017	Laboratory Equipments and Laboratory Consumable, Maintenance	26,200

Academic Year	Particulars	Amounts Spent (in Rs)
Department of Computer Science and Engineering		
2012-2013	Laboratory Equipments and Laboratory Consumable, Maintenance	6,35967
2013-2014	Laboratory Equipments and Laboratory Consumable, Maintenance	5,22,2173
2014-2015	Laboratory Equipments and Laboratory Consumable, Maintenance	9,17,083
2015-2016	Laboratory Equipments and Laboratory Consumable, Maintenance	7,54,833
2016-2017	Laboratory Equipments and Laboratory Consumable, Maintenance	5,88,670

Academic Year	Particulars	Amounts Spent (in Rs)
Department of Electronics and Communication Engineering		
2012-2013	Laboratory Equipments and Laboratory Consumable, Maintenance	-
2013-2014	Laboratory Equipments and Laboratory Consumable, Maintenance	16,25,620
2014-2015	Laboratory Equipments and Laboratory Consumable, Maintenance	14,71,900
2015-2016	Laboratory Equipments and Laboratory Consumable, Maintenance	8,12,815
2016-2017	Laboratory Equipments and Laboratory Consumable, Maintenance	91,885

Academic Year	Particulars	Amounts Spent (in Rs)
Department of Electrical and Electronics Engineering		
2012-2013	Laboratory Equipments and Laboratory Consumable, Maintenance	-
2013-2014	Laboratory Equipments and Laboratory Consumable, Maintenance	-
2014-2015	Laboratory Equipments and Laboratory Consumable, Maintenance	1,71,110
2015-2016	Laboratory Equipments and Laboratory Consumable, Maintenance	2,46,900
2016-2017	Laboratory Equipments and Laboratory Consumable, Maintenance	3,50,000

Academic Year	Particulars	Amounts Spent (in Rs)
Department of Mechanical Engineering		
2012-2013	Laboratory Equipments and Laboratory Consumable, Maintenance	12,01,044
2013-2014	Laboratory Equipments and Laboratory Consumable, Maintenance	13,98,096
2014-2015	Laboratory Equipments and Laboratory Consumable, Maintenance	68,117
2015-2016	Laboratory Equipments and Laboratory Consumable, Maintenance	729
2016-2017	Laboratory Equipments and Laboratory Consumable, Maintenance	6,545

Academic Year	Particulars	Amounts Spent (in Rs)
Department of Science and Humanities		
2012-2013	Laboratory Equipments and Laboratory Consumable, Maintenance	5,000
2013-2014	Laboratory Equipments and Laboratory Consumable, Maintenance	1,32,385
2014-2015	Laboratory Equipments and Laboratory Consumable, Maintenance	79,592
2015-2016	Laboratory Equipments and Laboratory Consumable, Maintenance	18,412
2016-2017	Laboratory Equipments and Laboratory Consumable, Maintenance	14,400

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 abled 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. Ramp and hand rails facilities are available at the entrance of the campus. Restrooms are suitably designed for the differently abled.

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

- Hostel Facility – Accommodation available.
- Recreational facilities, yoga center, etc.
- Facilities for medical emergencies.
- Internet and Wi-Fi facility.
- Residential facility for the staff.
- Constant Supply of safe drinking water.

The Institute has hostels for both boys and girls exclusively within the campus. Hygienic food is provided to all the hostellers and the daily menu is decided by the students. Menu is regularly changed as per the request from the students. Emergency transportation, treated hygienic water facilities, Wi-Fi facility and 24X7 uninterrupted power supply with generator facilities are provided to all the hostellers.

Hostel Facility

The institution has separate hostels, for both boys and girls students. The hostel rooms are spacious, ventilated and are provided with all amenities. Water purifier has been provided for ensuring the hygiene in the hostel. The college boys hostel has 130 rooms and girls 38 rooms.

SSEC Boys Hostel

SSEC Hostel Room

SSEC Girls Hostel

SSEC Hostel Mess

SSEC Hostel Dining Hall

SSEC Hostel Dining Hall

SSEC Hostel Mess

Recreation facilities

Outdoor recreation and audio visuals aids (Television, Music player, indoor games like Carom, Chess and Table Tennis etc) for indoor recreation are provided by the institution.

Medical facilities

The College and the hostel are equipped to meet the medical attention required by the students. Separate vehicle facility is also available to transport the student or staff to the Subbu Hospital, karamadai.

Hygiene facilities

Water doctors with hot and cold purified water with continuous supply of safe drinking water in the college hostel.

Security

Round the clock security is taken care by the security personnel's inside the campus.

Computer facilities

Wi-Fi facility is available to all inmates of the hostel including internet for accessing the online learning resources.

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?

- Separate Vehicle facility is available to transport the student or staff to the hospital on emergency. First aid room and First aid kits in all departments are available in the institution.
- The following medical insurance facilities are available for the students.
  - Insurance policy for I, II, III and IV year UG and PG students.
  - Insurance coverage is from chairman to last grade employee and to all students.
  - If the parents of the student expired during the course of study, his/her tuition fees and hostel fees will be provided by the insurance policy.
  - If the student expired in the accident, the amount of Rs 1 lakh will be given to the parents. If any student met with an accident the medical claim up to Rs 50 thousands will be provided.

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

TABLE 4.8: COMMON FACILITIES

S.NO	NAME OF THE UNIT	PLACE OF LOCATION
1	Seminar Hall	Main Building
2	Yoga Class Room	Main Building
3	Auditorium	Auditorium Block
4	Placement Cell	Main Building
5	Canteen	Mess Block
6	Transport Facilities	Main Building
7	Drinking Water	All Floors

SSEC Transport Facilities

SSEC Transport Facilities

SSEC Transport Facilities

SSEC RO Water Plant

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 Library committee that comprises the following members. The committee meets once in three months to review the library activities, discuss and make recommendations.

TABLE 4.9: LIBRARY ADVISORY COMMITTEE

S.NO	NAME OF THE MEMBER	DESIGNATION	POSITION
1	Dr.V.Vel Murugan	Principal	Chairman
2	Mrs.T.Deepa	Chief Librarian	Member Secretary
3	Dr.T.R.Heera	Assistant Professor/S&H	Member
4	Dr.G.Mahesh	Professor & Head/Mech	Member
5	Dr.I.Shanthi	Professor & Head/ECE	Member
6	Dr.A.Umaamaheshvari	Professor & Head/EEE	Member
7	Dr.A.Purusothaman	Associate Professor/ECE	Member

The library committee's discussions pertain to the following areas:

- Assesses the need for titles and number of copies based on programme requirements, staff and student strength and provides suggestions to the management.
- Offers suggestions to optimize the usage of library resources.
- Monitor the rules and regulations of the library management and utilization of the library by students and staff.

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 library (in Sq. Mts.)**
- **Total seating capacity**
- **Working hours (on working days, on holidays, before examination days, during examination days, during vacation)**
- **Layout of the library (individual reading carrels, lounge area for**

- **browsing and relaxed reading, IT zone for accessing e-resources)**

S.NO	DETAILS OF LIBRARY	DESCRIPTION
1	Total Area of the Library	400 Sq.m.
2	Total Seating Capacity	78
3	Library Timing	8:45 AM – 6:30 PM
4	Before Examination Days	8.45AM – 6.30 PM
5	During Examination Days	8.45 AM - 6.30 PM
6	During Vacation	10.00 AM –5.00 PM

The library is closed on Sundays and on all State and Central Government declared Holidays.

Access to the Premises

- Prominent display board to locate the library in the ground floor.
- Clearly laid out floor plan.
- Adequate Sign boards such as Entry, property Counter, Periodical section, Book Section, Digital Library, notice board, Project Report Section, Gate forum Section.
- Fire Extinguishers fixed in prominent locations of the library and instruction of using the same also displayed.

Layout of the Library

The Library is divided into the following section for effective use of the students and staff members.

- UG/PG Book section.
- Periodical Section.
- Back volumes and Project Report Section.
- Reading Area.
- Digital Library.
- Printer Section.
- Reprography facility.
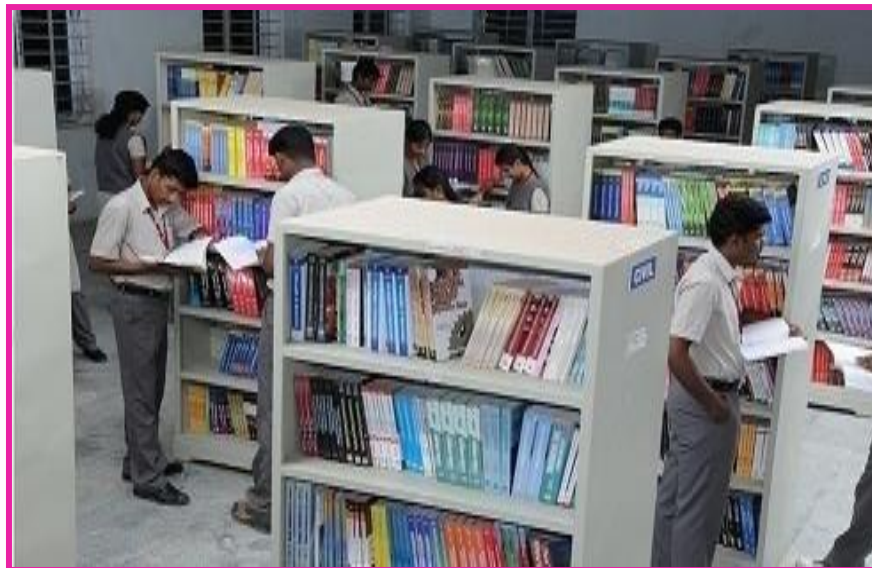
Library UG/PG Book section

Library reading and writing section

4.2.3 **How does the library ensures 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.**

- The Library takes care of purchase the text and reference books, Journals as per Anna University syllabus and other industry related books, Motivational books and books related to competitive exam.

- Before the commencement of every academic semester (both even and odd) the department wise text books and reference books (as per updated syllabus) from each department are collected by the Librarian. The Librarian will prepare the comparative statement based on the quotations received from various publishers.

- The Library Advisory Committee analyses the purchase requirement with budget and recommends to the management for necessary approval.

- The committee ensures the availability of text and reference books before the commencement of the semester.

- The Library subscribes to the national print journals and online journals as per the AICTE/Anna University Norms.

Print Materials

- Books   -   11750
- Printed Journals   -   66
- Magazines and Newspapers   -   6 and 7
- Back Volumes   -   90
- Project Reports   -   291

Non-Print Materials

- CD/DVD   -   439
- e-journals   -   585

The following table provides details of the amount spent on procuring library resources during the last years.

TABLE 4.10: AMOUNT SPENT ON PROCURING LIBRARY RESOURCES

Details Of Library Holdings	2016-17		2015-2016		2014-2015		2013-2014		2012-2013	
	Qty	Total Expenditure	Qty	Total Expenditure (in Rs)	Qty	Total Expenditure (in Rs)	Qty	Total Expenditure (in Rs)	Qty	Total Expenditure (in Rs)
Text and Reference Books	1000	5,00,000	935	249743	981	1,31,661	776	2,07,965	1195	2,86,139
Journals/ Periodicals	84	2,21,200	60	159300	70	1,57,285	78	1,12,078	78	2,67,716

e-Resources	1	11500	1	11500	1	11,500	1	11,500	1	11,500
Newspaper and Magazines	2603	14600	2603	14600	2,555	13,740	2,555	13,740	365	1,260
Table, Chair and Book Racks	10	72500	10	72500	23	93,600	22	64,450	26	90,200
Total	**819800**		**511571**		**411159**		**4131117**		**659333**	

4.2.4 Provide details on ICT and other tools deployed to provide maximum access to library collection.

- **OPAC**
- **Electronic Resource Management package for e-journals**
- **Federated searching tools to search articles in multiple databases**
- **Library Website**
- **In-house/remote access to e-publications**
- **Library automation**
- **Total number of computers for public access**
- **Total numbers of printers for public access**
- **Internet bandwidth / speed / 2 Mbps /10 Mbps /1 Gbps**
- **Institutional Repository**
- **Content management system for e-learning**
- **Participation in Resource sharing networks/consortia (like Inflibnet)**
- **Electronic Resource Management package for e-journals DELNET &NPTEL**

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

Electronics Resource Management package for e-journals

The Library has subscribed the DELNET Database of e-journal packages.

Federated Searching tools to search articles in multiple databases

DELNET facility is available to search articles in multiple databases.

Library Website

No, The institution Library details maintained in Institution Automation system.

In-house/remote access to e-publications

The library subscribes to E-journal packages which can be accessed over the intranet. Students and staff also utilize the facility through Wi-Fi network.

Library Automation

Library Management System is heading towards complete integration of following activities.

- Accession of Books, Periodicals, Back Volumes, Project Reports, CDs and DVDs
- Members Entry, Books Issue and Return process are automated and bar codes used.
- Stock Verification and Auditing of books.

Total Number of Computers for public access

10 Computers are provided for public access

Internet Band Width

10 + 2 Mbps internet leased line with 1:1 ratio is available.

Resource Sharing Networks/ Consortia

The institution is a member of DELNET (Developing Library Network), New Delhi.

4.2.5   Provide details on following items:
- **Average number of walk-ins**
- **Average number of books issued/returned**
- **Ratio of library books to students enrolled**
- **Average number of books added during last three years**
- **Average number of login to opac (OPAC)**
- **Average number of login to e-resources**
- **Average number of e-resources downloaded/printed**
- **Number of information literacy trainings organized**
- **Details of "weeding out" of books and other materials**

DETAILS	REMARK (In terms of quantity)
Average Number of Walk-ins	100 / day
Average Number of Books Issued / Returned	50/ day
Ratio of library books to students enrolled	1:10
Average numbers of books added during last three years	2562
Average number of login to opac (OPAC)	-
Average number of login to e-resources per month	1230
Average number of e-resources downloaded/printed per month	26
Number of information literacy trainings organized per year	1
Details of "weeding out" of books and other materials	6 books

4.2.6   Give details of the specialized services provided by the library

- **Manuscripts**
- **Reference**
- **Reprography**
- **ILL (Inter Library Loan Service)**
- **Information deployment and notification**
- **(Information Deployment and Notification)**

- **Download**
- **Printing**
- **Reading list/ Bibliography compilation**
- **In-house/remote access to e-resources**
- **User Orientation and awareness**
- **Assistance in searching Databases**
- **INFLIBNET/IUC facilities Reference**

A very good collection of reference books, projects and industry manuals are available. A collection of books for competitive exams like TOEFL, TNPC and GATE etc. are available. Library has question banks, case studies and University question papers for students and staff reference.

Reprography

Reprography facility is available to all the students.

Information Deployment and Notification

Information is provided through notice board displays, personal interaction, e-mail, circular etc.

Download

The students and staff can download articles from library or access through the intranet.

Printing

Printing facility is available to all the students those who are in need of hard copy for reference.

Reading List / Bibliography Compilation

Provision available for Reading list and Bibliography Compilation.

In house/remote access to e-publications

Students access from Digital library, internet lab and department.

User Orientation and Awareness

- Orientation is given for freshers.
- The librarian plays a key role in explaining facilities and its usage.
- Details pertaining to E-journal access are displayed on notice boards.

Assistance in searching databases

Qualified library assistants are assigned to support both students and staff to locate books manually.

INFLIBNET /IUC facilities

DELNET (Developing Library Network) facility is available. Apart from

these above facilities, the Library also offers the following services

- Access to NPTEL contents, Video Lectures and Web Lectures.
- Access to e-books and e-journals through DELNET online.
- Access to internet for online learning resources.

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

- Library staff assists book issue, book return, Library Entry and Digital Library for using the library management system.
- The Library functions till 6.30 PM for effective utilization.
- Library is also open on holidays like Saturdays.
- Books, Journals and other learning resources are arranged systematically organized pattern for zero delay easy access.
- Library assistants help students to locate the Books, Journals and Project Reports.
- Reprographic and Printer facilities are available.
- Newspaper clippings on education, science and technology, sports, competitive exams, placement details are displayed on the notice board.
- The library orientation program is organized.
- Library staff maintains the hard copy of end semester examination question papers.

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

The institute has no enrolment of visually/physically challenged persons.

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

Yes, Feedback is obtained annually on a questionnaire from the faculty and students and also exclusive feedback register is provided. Feedbacks for the betterment of the Library services are encouraged from all the users. Library Advisory Committee meets and discusses the progress of Library and also considers the feedback given by the users. Remedial procedures recommended by the Library Advisory Committee based on the analysis of the feedback by the users.

Following are the parameters used by library to collect the feedback:
- Availability of latest books
- Availability of Journals
- Library Timings
- Book issue and return process
- Easy retrievability of books and journals
- Response to enquiry
- Infrastructure
- Working environment
- Suggestions for improvement.

Few suggestions were recommended and implemented

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).**
- **LAN facility**
- **Wi-Fi facility**
- **Licensed software**
- **Stand alone facility**
- **Computer student ratio**
- **Number of nodes/computer with internet facility**
- **Any other**

TABLE 4.11: COMPUTING FACILTY

S.No	CONFIGURATION	NO. OF SYSTEMS
1	**ESYS** Intel Core2 DUO 2.93 CPU / 2GB DDR2 RAM / 320GB Hard Disk / ESYS Keyboard / ESYS Optical Mouse / ESYS 18.5'' TFT Monitor	**100**
2	**ZENITH** Intel atom 1.6GHz / 2GB DDR2 RAM / 320GB Hard Disk / ZENITH Keyboard / ZENITH Optical Mouse / ZENITH 18.5'' TFT Monitor	**75**

3	**ZENITH** Intel core i3 3.30GHz / 4GB DDR3 RAM / 250GB Hard Disk / ZENITH Keyboard / ZENITH Optical Mouse / ZENITH 18.5'' TFT Monitor	**120**
4	**WIPRO** Intel core i3 / 4GB DDR3 RAM / 320GB Hard Disk / WIPRO Keyboard / WIPRO Optical Mouse / WIPRO 18.5'' TFT Monitor	**120**

Computer student Ratio:

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

Stand alone facility:

- 415 computers

LAN facility:

- 415 computers

TABLE 4.12: AVAILABLE SOFTWARES

S.NO	NAME OF THE SOFTWARE	QUANTITY
1	DsktpEdu ALNG LicSAPk OLV E 1Y Acdmc Ent Windows 10 Upgrade Microsoft Office 2013 Core CAL Suite: Windows Server CAL, Exchange Server CAL, Office SharePoint Server CAL, System Center Configuration Manager Configuration Management License (CML)	50
2	SQLCAL ALNG LicSAPk OLV E 1Y Acdmc Ent DvcCAL	50
3	VSProwMSDN ALNG LicSAPk OLV E 1Y Acdmc AP	1
4	SQLSvrStd ALNG LicSAPk OLV E 1Y Acdmc AP	1
5	WinSvrStd ALNG LicSAPk OLV E 1Y Acdmc AP 2Proc	1

TABLE 4.13: SYSTEM SOFTWARE

S.NO	NAME OF THE SOFTWARE	QUANTITY
1	Microsoft Desktop Optimization Pack for Software Assurance 2014 R2	Campus Agreement (Agreement ID : V9679764)
2	Microsoft Desktop Optimization Pack for Software Assurance 2015	
3	Windows 10 Education	
4	Windows 10 Professional	
5	Windows 7 Enterprise	
6	Windows 7 Professional	Campus Agreement (Agreement ID : V9679764)
7	Windows 10 Education N	
8	Windows 7 Enterprise N	
9	Windows 8.1 Enterprise	
10	Microsoft E-Learning - Applications: Office 2013 ,2010, 2007,2003	
11	Microsoft E-Learning – Winsystems: Win8, Win7, VISTA, XP	

12	Forefront Identity Manager 2010 R2 with SP1	
13	Win Srv 2008 Data Ctr / Itan KMS C	
14	Win Srv 2008 Data Ctr / Itan MAK C	
15	Windows Cluster Server	
16	Windows Server 2003 R2, x64 Ed.	
17	Windows Server 2012 Essentials	
18	Windows Server 2012 R2 Essentials	
19	Windows Server 2012 R2 Standard	
20	Windows Server 2012 Standard	
21	Windows Server Enterprise 2008	
22	Windows Server Enterprise 2008 R2	
23	Windows Server Enterprise 2008 Service Pack 2	
24	Windows Server Language Packs 2008 R2	
25	Windows Server Standard 2008	
26	Windows Server Standard 2008 R2	
27	Windows Server Standard 2008 Service Pack 2	
28	Windows Server Standard 2008 without Hyper - V	

29	Windows Server Standard 2008 without Hyper – V Service mPack 2	
30	Windows Server Standard 2008 without Hyper – V with Service Pack 2	
31	Windows Small Business Server Essentials 2011	
32	Windows Web Server 2008	
33	Windows Web Server 2008 R2	
34	Windows Web Server 2008 R2 Service Pack 1	
35	Fedora	Free
36	Ubuntu	Free

TABLE 4.14: APPLICATION SOFTWARE

S.NO	NAME OF THE SOFTWARE	LICENSE
1	Entourage 2008 for Mac	
2	Entourage 2008 for Mac with SP2	
3	Groove 2007	Campus Agreement (Agreement ID : V9679764)
4	Lync 2013	
5	Office 2007 SP 3 (for office 2007 suites & applications)	

6	Office Professional Plus 2010	
7	Office Professional Plus 2013	
8	Office Professional Plus 2016	
9	Visual Studio Professional 2015	
10	SQL server 2014 Standard Edition with SP1-Server / CAL	
11	SQL server Standard 2008 SP4	
12	SQL server Web 2008 R2	
13	SQL server Workgroup 2008 R2	
14	System Center 2012 Config Mgr Client Mgmt License with SP2	
15	System Center 2012 Endpoint Protection with SP2	
16	System Center 2012 R2 Config Mgr Client Mgmt License with SP	
17	C++ Compiler	Free
18	JAVA	Free
19	My SQL	Free
20	Post Gress	Free
21	DB2	Free
22	C,C++	Free

23	JAVA Network Simulator like NS2	Free
24	Opnet	Free
25	J2ME, J2SDK	Free
26	Linux	Free
27	NS2	Free
28	Turbo C, Turbo C++	Free
29	JUM & J2SE	Free
30	Agrouml	Free
31	Eclipse IDE	Free
32	Tomcat Server	Free
33	Apache Server	Free
34	ISS	Free
35	Codegear C++ 2009 ESD	10 User
36	Think Design Software (CAD)	35 User
37	Orcad	5 User
38	NI Labview Academic Bundle 14.0	30 User
39	STADD PRO	15 User

40	HICLASS SOFTWARE	35 User
41	JDK 1.6, JDSK	Free
42	Java Wireless Mobile Tool Kit	Free
43	WampServer2.0	Free
44	Net Beans 6.9	Free
45	Python-2.7.1	Free
46	WinWap4.2	Free
47	Ethereal	Free
48	Xilinx ISE Foundation v9.1 VLSI Design Software	Free
49	Norton	10 User

Number of Nodes/ Computers with Internet Facility

- The institution has 415 computers with internet facility for the students and staff.

Any Other

- 12 Mbps dedicated line from BSNL.
- Biometric Staff Attendance Management System.
- Centralized Data Center.
- LCD Projectors : 11 No's
- Printers : 23 No's
- Scanner : 02 No's
- UPS: 80KVA

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 415 computers are available for faculty and students.
- All Laboratories are provided with internet facility (12Mbps). Internet connection is open to staff and students on all working days till 6.00 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 (20 Mbps).
- Proposal to set up e-learning lab for students & staff.
- Better platform for accessing materials are provided by the computer technology is being effectively utilized at our institution.

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)

TABLE 4.15: ANNUAL BUDGET

S.NO	NAME OF THE ITEMS	YEAR WISE BUDGET (RS.)					
		2016-17	2015-16	2014-15	2013-14	2012-13	2011-12
1	Systems	--	---	---	3728000	--	2712000
2	Hardware	--	41670	167130	811054	107800	157805
3	Software	--	30000	230496	213442	138650	36175
4	Maintenance	588670	713163	22550	125400	73610	88130
	Total	588670	754833	420176	4877896	320060	2994110

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?

Internet facility is being utilized effectively at our campus for the better accessing of teaching, learning materials by the students and faculty members. For this purpose the college has established the following ICT facilities.

Wi-Fi

Wi-Fi enabled campus with high bandwidth connectivity.

Smart Campus

- SSEC provides Smart Campus to students, which is excellent in offering timely information to parents in the form of SMS and the faculty members as mail.

- ROVAN software is in place to provide a complete solution for automation of campus functions and information management of our institution for better efficiency.

- Smart Campus covers the following modules,

- Biometric based Attendance Maintenance for staff.

- Lesson plans are prepared in a ISO format using SSEC software which includes computer-aided teaching / learning materials such as Power point presentation, NPTEL videos etc.,

- Attendance and Internal Assessment are carried out through SSEC ROVAN software.

- The entire official circulars are sent to the staff members using group mail facility.

- Admissions, Fees, Academics, Examination, Placement, Library, Hostel, and Transport are carried out through SSEC ROVAN software.

Online Feedback System:

SSEC makes use of software to collect online feedback from the students to enrich the teaching learning process.

NPTEL:

NPTEL gives an opportunity to the faculty members and students to learn from reputed professors from IIT's and IISC. SSEC provides the facility for

accessing NPTEL resources for web and video lectures in Engineering, Science and Technology.

Digital Library:

Central Library has Digital Library service to meet the e-learning requirements of both students and staff members. Digital Library is having 10 systems with internet facility for access of the users.

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 is available for both students and faculty members.
- Various Faculty Development Programs are conducted regularly.
- NPTEL: The College effectively utilizes NPTEL resources for e-learning through online Web and Video courses in Engineering, Science and Technology.
- Digital Library: Digital Library is having adequate systems with internet facility for the access of e-resources.
- Individual Assignments/Seminars and paper presentations.

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

National Knowledge Network Connectivity is not available at our campus.

However, the institute has sufficient Internet Bandwidth to make use of National Programme on Technology Enhanced Learning (NPTEL) resources.

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)?

TABLE 4.16: MAINTENANCE EXPENSES (in Lakhs)

S.NO	NAME OF THE ITEMS	YEAR WISE BUDGET (RS.)				
		2015-16	2014-15	2013-14	2012-13	2011-12
1	Computer Maintenance	713163	622817	640939	550909	----
2	Other Maintenance	210336	1939505	2624789	907280	1099640
3	Vehicle Maintenance	1367323	4306333	3579905	2914598	2287714
4	Building maintenance	939036	3239680	119610	35489	22025
	Total	**32,29,858**	**10,1,08,335**	**69,65,243**	**44,08,276**	**34,09,379**

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

- Civil department looks after all the construction and maintenance works in the campus like maintenance of infrastructural facilities like buildings, water supply etc.,

- A separate electrical maintenance team is functioning under a senior electrical engineering department faculty to look after electrical maintenance in the campus.

- A maintenance register is kept in the office to follow the electrical complaints registered and its rectification.

- 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.

- Equipment maintenance is taken of concerned department with senior faculty as the incharge.

- Periodical equipment maintenance is done by the respective laboratory technicians.

- Every Department has maintenance register to record the details of equipment service work carried out.

- In case of any service of equipments, the suppliers and outside engineers are called on to attend the service work.

- The institution has got a generator with the capacity of 82.5 KVA

- Computer Department of our institution takes care of software installation and maintenance.

- The hardware failure of any computer is rectified through Annual Maintenance Contact (AMC).

- Annual stock verification of laboratory equipments, furniture, library resources and other infrastructural facilities is carried out by various teams

consisting of teaching staff members constituted by the Principal.

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 equipments with the help of suppliers.

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 that are taken by the institution to upkeep and maintain the sensitive equipment's are as follows:

- The UPS facility to all the computer laboratories and other sensitive equipments in the premises to avoid high voltage fluctuations is available in the institution.
- In the institution MCB"s (Circuit breaker) have been installed to prevent from high voltage fluctuation and switch fuse in case of short circuits.
- In case of power shut down, there is one generator (82.5KVA) as stand-alone facility for the entire campus to supply un-interrupted power.
- Supply of quality water is ensured through RO system
- The water doctor facility is available at all the floors for the supply of pure water to the students and the staff members.

Any other relevant information regarding infrastructure and learning resources which the college would like to include

The institute has planned to develop the following infrastructure facilities during the academic year 2017-18 and 2018-19

- Second floor construction of Civil and Mechanical block to be developed in the year 2017-18.
- Third floor construction of main block to be developed in the year 2017-18.
- Fleet of buses from different areas in city and neighboring satellite towns.
- Utilize equipments, guest houses, and other facilities at SSEC Company.

CRITERION – V STUDENT SUPPORT AND PROGRESSION

5.1.Student Mentoring and Support

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?

The handbook and prospectus are annual routine features compiled and ready for distribution at the semester start. The vision and mission are clearly stated in the handbook, prospectus and website. The institution abides by the commitment given. The accountability is met by the periodical updates made therein. Systematic monitoring of the sub-systems ensures that the larger mechanism functions to capacity, thereby fulfilling its commitment to the students.

Prospectus

The prospectus details the following information:

- Details of the academic programmes offered.
- Fee structure for each course.
- Eligibility criteria for admissions.
- Admission procedures.
- Outline of courses.
- Placement details.
- Industrial practical knowledge training.
- Library facilities.
- Canteen/transport facilities.

Handbook

The handbook - a cornucopia of information is made available to all students and members of faculty. It serves as ready reckoner providing valuable information about the institution. It provides insight into the detailed planning and systems that are in place. Annual revisions are made in all the areas that need change. The handbook lists details related to the items mentioned below.

- Management Trustee.
- Governing Council.
- Courses offered.
- Faculty Team.
- Administrative Staff.
- Supporting Staff.
- Academic Calendar.
- Anti-ragging Committee.
- Grievances Redressal Cell.
- Women Development Cell.
- General rules and regulations.
- Library rules and regulations.
- Committees, squads and clubs.
- Bus routes.

Website Details

Besides mandatory information about the institution, the website provides regular updates about invited talks, workshops, training sessions and faculty development programmes.

The same data, which is distributed in the handbook, are likewise upgraded on the college website: www.sreesakthi.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 management institutes merit scholarships based on the cut-off marks. Fee concession is also given to the economically disadvantaged. There has been no delay what so ever in the disbursement of these funds.

Table 5.1 (a) Merit Scholarships Awarded by the Institution

S.No.	Year	Number of Students	Amount (Rs.)
1.	2014-2015	53	18,60,000.00
2.	2015-2016	54	25,70,000.00
3.	2016-2017	28	6,80,000.00
Total		135	51,10,000.00

Student Receiving Scholarship from Management

Table 5.1(b) Fee Concession Awarded by the Institution

S.No.	Year	Number of Students	Amount (Rs.)
1.	2013-2014	96	5,82,485.00
2.	2014-2015	104	6,75,420.00
3.	2015-2016	125	6,19,600.00
4.	2016-2017	139	7,90,000.00
Total		464	26,67,505.00

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

A number of scholarships are funded by the state and central governments. The students are informed about all the available funding sources and the institution undertakes the responsibility to guide them in procuring the same.

Table 5.2 (a) Scholarship For BC, MBC & DNC

S.No	Year	Sanctioned Number	Sanctioned Amount (Rs.)	Disbursed Number	Disbursed Amount (Rs.)	Undisbursed Number	Amount Refunded (Rs.)
1.	2013-2014	-	-	-	-	-	-
2.	2014-2015	2	10,800.00	2	10,800.00	NIL	10,800.00
3.	2015-2016	96	5,41,475.00	96	5,41,475.00	NIL	5,41,475.00
4.	2016-2017	166	8,02,000.00	IN PROCESS (PENDING IN GOVT.)			
	Total	264	13,54,275.00	98	5,52,275.00	NIL	5,52,275.00

Table 5.2 (b) Scholarship for SC & ST

S.No.	Year	Sanctioned Number	Sanctioned Amount (Rs.)	Disbursed Number	Disbursed Amount (Rs.)	Undisbursed Number	Amount Refunded (Rs.)
1	2013-2014	58	11,42,500.00	58	11,42,500.00	NIL	11,42,500.00
2	2014-2015	97	85,12,500.00	97	85,12,500.00	NIL	85,12,500.00
3	2015-2016	97	1,35,70,000.00	97	1,35,70,000.00	NIL	1,35,70,000.00
4	2016-2017	139	96,70,000.00	IN PROCESS (PENDING IN GOVT.)			
	Total	391	3,28,95,000.00	271	2,32,25,000.00	NIL	2,32,25,000.00

5.1.4 What are the specific support services/facilities available?

The institution is committed to extend all possible support for the students in order to make their educational experience comfortable.

Students from SC/ST, OBC and economically weaker sections

The students who belong to SC/ST, OBC and economically weaker sections are identified during admission. Students are assisted in availing the Central Government, the State Government and the University sponsored scholarships and concessions. As per Anna University norms 100% tuition fee waiver is provided to SC/ST students whose parent's annual income is below Rs. 2,50,000.

Students with Physical Disabilities

The institution is equipped with ramps and disabled friendly rest rooms to accommodate students with physical disabilities. However, there has been no enrolment as of now.

Overseas student

The University does not offer provision to admit overseas students.

Students to participate in various competitions - National and International

Each department has a student association anchored by a staff coordinator. Students are given free rein to organize technical events. This equips them with the necessary organizational skills to participate in competitions both on and off the campus.

Medical assistance to students: health centre, health insurance etc.

First aid medical facilities are provided to the students who are in need of medical assistance both in the college campus and the hostel. There is provision for emergency vehicle (24X7) to transfer the students for medical assistance from Subbu hospital, Karamadai.

- Drinking water facility is installed at all vantage points inside the college campus using water doctor.
- Exclusive first aid room for students, with required medical facilities.
- First Aid box is available in all departments, laboratories and hostels.

Skill development (Spoken English, Personality Development Program, Technical Certifications etc.)

Personality development courses are entrusted to organizations like FACE Academy and SMART India to help in the overall development of students.

Students are periodically exposed to talks by eminent personalities from both academia and industry. Guest speakers from national and foreign institutions/industries throw light on employment opportunities to students.

Support for "slow learners"

The mentor system is operational, with 20 students assigned to a faculty to identify the students with difficulty in particular subjects. These slow learners are tutored in remedial classes. In addition, departments make use of peer teaching, assignments, cycle tests which helps the students to learn better. Personalized counseling is given to the students.

Exposure of students to other institution of higher learning / corporate / business / house:

Students are motivated to participate in various technical competitions such as symposiums, conferences, seminars, workshops and other technical events organized by various higher learning institutions. The institution regularly organizes industrial practical knowledge training programmes, corporate internships which helps the students to acquire knowledge in industrial practices, current trends and the corporate culture.

The experts from industries and academic institutions are invited to deliver guest lectures on emerging trends in the respective fields. MoUs are signed with leading industries to train the students' in the emerging technologies which enhances employability skills of the students. An MoU has been signed for Dual Degree Program with the University of Popolare Degli Studi di Milano, Italy for student exchange programme to learn / impart the technological advancements in all fields of engineering.

Publication of student magazines:

Each department publishes a News Letter which includes articles written by faculty members and the students, the various events organized by the departments and also the achievements of the faculty members and the students are published.

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

An Entrepreneurial Cell organizes regular activities to promote entrepreneurial skills among students. The cells organizes talks by entrepreneurs which gives the students an insight into the different careers that they can venture into, the risks and the gains involved. The talks that are given help the students to develop an understanding of the benefits of self employment.

Table 5.3(a) Details of Composition of Entrepreneurship Cell

S.No	Position	Name and Designation
1	Co-ordinator	Mr. K. Sathish Kumar, Assistant Professor / Mech
2	E-Leader	Mr. B. Sam Nirmal, III B.E. Mech.
3	E-Leader	Mr. B. Sankar Ganesh, III B.E. Mech.

Table 5.3(b) Details of Entrepreneurship Development Cell Activities

S. No	Date	Details of activity Attended	Resource Person Name and Organization	No. of Students Attended
1	4.01.2017 to 6.01.2017	The Entrepreneurship Development Institution (EDI), Government of Tamilnadu and Entrepreneurship Development Cell, Anna University Regional Campus Coimbatore organized "Three day Faculty Development Programme" at Anna University Regional Campus, Coimbatore.	Tmt. Sujaya Rao, Master Trainer of NEN, delivered the Keynote address to E Leaders for students in the spoken institution.	1
2	30.01.2017 to 31.01.2017	The Entrepreneurship Development Institution (EDI), Government of Tamilnadu and Entrepreneurship Development Cell, Anna University Regional Campus	Tmt. Sujaya Rao, Master Trainer of NEN, delivered the Keynote address to E Leaders for students in the spoken institution.	2

| | | Coimbatore organized "Two day NEN E-Leader Workshop" at Anna University Regional Campus, Coimbatore. | | |

Table 5.3(c) Progression to Entrepreneurship

S.No.	Batch	Name	Department	Company
1	2010-2014	Pradeep.S	MECH	Pradeep Foundary Services
2	2010-2014	Naveen	CIVIL	Naveen Associates
3	2010-2014	Nirmalkumar.M	CIVIL	Elysian Builders
4	2010-2014	Shree Haree	EEE	Sonio Electricals
5	2010-2014	Dinakaran S	ECE	Marketing
6	2010-2014	Sathish. T	ECE	KBM Networks, Bangalore
7	2011-2015	Antonyraj. S	ECE	Gtech Browsing Centres
8	2011-2015	Praveen S.N.K	CIVIL	SNK Constructions
9	2011-2015	Boomibalagan.	CIVIL	Udhayam Finance
10	2011-2015	Kannan. S	ECE	Marketing
11	2011-2015	Gowtham	EEE	A.R.S.Coconut Scrubber M/c
12	2012-2016	Kannan. S	CSE	Milk Products

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.

As a policy, the institution exposes the integration of a healthy mind in a healthy body concept. The sprawling campus is well suited to conduct inter collegiate sports etc. It strategizes on these activities to promote team work and a healthy competitive spirit apart from insulation of self.

Sports and Games

The Sports Club identifies the students who are interested in taking up sports activities. The institution provides sufficient court space and sports equipment to practice outdoor games like volleyball and throw ball. Indoor games like chess and carrom are available for both male and female students. Representation at inter-collegiate tournaments in cricket, hockey, basketball and throw ball take place around the year. The institution provides an annual budget for sports uniforms and sports materials. It bears boarding and travel expenses of students at inter-collegiate competitions. In addition to this, the institution conducts annually, intramural sports and games for students.

Quiz, Debates and Discussions

Departments conduct technical events during the time allotted for association activities. General quiz, debates and group discussions are a part of these meetings. These camaraderie sessions are much anticipated by the students because it provides the perfect platform for exchange of ideas.

The institute has various clubs and societies to involve students in various social movements / activities:

National Service Scheme

The NSS unit of the institute organizes various society / environmental welfare programmes such as:

- College campus cleaning programme.
- Planting saplings in the college campus.
- Awareness programmes for the public.
- Blood donation camp.

Planting Saplings in the College Campus

Youth Red Cross

The main objective of the Youth Red Cross is to create awareness among the people about health activities and the voluntary services.

- To contribute to the improvement of health and the prevention of disease.

- To promote the participation of children and youth in the work of the Red Cross.
- To recruit, train and develop volunteers/personnel as necessary for undertaking humanitarian responsibilities.

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, GATE / CAT/ GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.

The Career Guidance Cell facilitates the necessary training for such examinations. Books and other reading materials for competitive examinations are available in the library. The Career Guidance Cell & Training and Placement Cell notifies students and provides information about competitive examinations. Aptitude tests are conducted in house by the departments and also by external agencies.

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

Academic and Personal Counseling

- Academic and Personal Counseling is provided by the tutor ward scheme where maximum 20 students are assigned to each faculty member.
- The tutor assists students to monitor and improve their academic progress and provides support on personal issues.

Career Counseling

- Career Counseling is given by Career Guidance Cell; it assists students in understanding their strengths, interests, skills and passion which influence their career decisions.

- Various awareness programs with external experts are provided to the students.

Psychological Counseling

- The Psychological Counseling is provided by Dr.T.Srinivasan. He meets the students and identifies their behaviors and motivates the individual towards risk reduction.

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 interview and the percentage of students selected during campus interviews by different employers (list the employers and the programme).

Yes. The institution has Career Guidance Cell, Training and Placement Cell.

The Career Guidance Cell provides guidance to students who are striving to pursue higher studies.

The Training and Placement Cell of the institution work along with the students in a systematic manner. During first year training, the communication skills is developed by the department of English and personality development workshop has been conducted by professional trainers.

The following programmes are offered during the second and third year of study.

- Quantitative, logical reasoning, soft skills by trainers from FACE academy, SMART, Six Phrase.
- Technical skill enrichment courses offered by MoU partners.
- Elective course on professional ethics.
- Mock Interviews.

Table 5.4 List of Companies Visited to SSEC

List of the Company	
2016-17	**2015-16**
1. Directi Internet Solutions Pvt. Ltd.	1. A+ CADD Centre
2. Indus Tequsite Pvt. Ltd.	2. Sutherland Global Services
3. IBM Global Business Services	3. WESTIN Electromech Pvt. Ltd.
4. PEEKAY Steel Castings (P) Ltd.	4. Aarbee Structures Pvt. Ltd.
5. Premier International Project LLC, Sultanate of Oman	5. BRIITE Power Systems
6. I-Exceed Technology Solutions Pvt. Ltd.	6. Mindz Park
7. The Indian Navy (University entry Scheme-17)	7. IDBI Federal
8. Aspire Systems	8. AEE. BEE Academy
9. NDOT Tech	9. VDart Software Services Pvt. Ltd.
10. Sierra Support Centre Pvt. Ltd.	10. Tech Mahindra SBC Tech Park
11. Maxwell IP Services Ltd.	11. Winners Education (P) Ltd.
12. Radview Technologies	12. LIC
13. KGiSL Pvt. Ltd.	13. Vinayak Infotech
14. Tech Mahindra	14. Eureka Outsourcing Solution
15. Solvers India	15. EP Software Technologies (P) Ltd.
16. AARBEE Structures	16. CADD Centre Training Services
17. Indoshell	17. I-Exceed Technology Solutions Pvt. Ltd.
18. Hinduja Global Solutions	

2014-15	2013-14
1. VDart Software Services Pvt. Ltd.,	1. Optima ICS
2. Decathlon Sports India Pvt. Ltd.	2. KGiSL
3. Innovative Solution Expert Pvt. Ltd.	3. I Max Technologies
4. Prithika Printech Pvt ltd.	4. Bliss Group
5. CADD Centre Training Services	5. Nutech Solutions
6. Miracle Software Systems (I) Pvt. Ltd.	6. VEE Technologies
7. Sutherland Global Services	7. Eureka Forbes
8. HYTECH Solution	8. Tech Mahindra
9. GNTS Technologies	9. Servall
10. Fony Technologies Private Limited	10. L&P Automotive
11. KGiSL Pvt. Ltd.	11. Stak Technosys
12. Indoshell Mould Ltd.	12. CTS
13. EP Software Technologies (P) Ltd.	13. UTL Technologies
14. I2 Software Tech	14. CSS Corp
15. Redwan Technologies	15. Digital Nirvana
16. CTS	16. Michigan Tyres
17. Xplore IT Corp	17. Yazaki Wiring Pvt. Ltd.
18. AtoZ Technologies Pvt. Ltd	18. Dunes International Projects
	19. Saradha Motors
	20. Sree Sakthi Equipments Company

Table 5.5 Students Recruited Through Campus Interviews

Year	Total No. of Final Year Students	Recruited Through Campus Selection	On-Campus	Off -Campus	Percentage
2010-2014	299	250	242	8	83.61
2011-2015	306	185	160	25	60.45
2012-2016	341	208	205	3	60.99
2013-2017	333	44	39	5	13

Chief Guest from Infosys (Third from Right) on Placement Day

Student Receiving Placement Order On Placement Day

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 Correspondent, Secretary, Principal and Heads of Departments. The Grievance Redressal Cell address the academic and non academic issues based on the need.

Table 5.6 Composition of Grievance and Redressal Committee

S.No	Grievances Reported	Grievances Redressed
1	**Internal Assessment Test Pattern:** Students found difficulty in writing two test per day.	Internal test pattern has been changed with one test per day with coaching before the test.
2	**Study Materials:** Students are requested to give separate study materials for slow learners.	Study materials in the form of question and answer type are prepared and distributed.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The College educates the students of both genders, about the sin of sexual harassment and its consequences. The institution has Women Empowerment Cell to ensure the safe and conducive environment for lady faculty members and girl students.

Table 5.7 Composition of Women Development Cell

S.No.	Name of the Faculty	Designation / Department	Position
1	Mrs. K. Punithavalli	Secretary	Convener
2	Mrs. A.V.R. Maheswari	AP/EEE	Co-ordinator
3	Mrs.Arthi.P	AP/EEE	Member
4	Mrs.M.Ramya	AP/CIVIL	Member
5	Mrs.N.Dhivyapriya.N	AP/ECE	Member
6	Mrs.Reenadevi.	AP/MATHS	Member
7	Mrs.Biruntha.S	AP/CSE	Member
8	Aishwarya Ashokan	III B.E ECE	Student Representatives
9	B.Niraimathi	III B.E. CIVIL	
10	Rathna Sri Gowsalya.M	III B.E. EEE	
11	Anjali B	III B.E. CSE	
12	M.Vajeeha Banu	II B.E. ECE	
13	G.Sugeerthi	I B.E. CSE	

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?

The institution has a well formulated anti-ragging system in place that collects a written and signed affidavit from all students in the presence of their parents/guardians at the time of admission. The anti-ragging committee is headed by the Principal and all Heads of Departments. The contact numbers of the committee is available in the hand book and in institution website. Display boards are set up at important locations. An anti-ragging committee closely monitors the discipline, both at the institution and hostel.

Table 5.8 Composition of Anti Ragging Committee

S.No	Committee Members	Designation	Position in Committee
1	Dr.V.VeL Murugan	Principal	Chairperson
2	Dr. I. Shanthi	HOD / ECE	Member
3	Dr.G. Mahesh	HOD / MECH	Member
4	Dr. A. Umaamaheshvari	HOD / EEE	Member
5	Mrs. G.Shyamala	HOD / CIVIL	Member
6	Mr.V.D.Srihari	HOD / CSE	Member
7	Mrs.T. Rojamary	HOD / S&H	Member

5.1.13 Enumerate the welfare schemes made available to students by the institution.

- Merit scholarships and fee concessions for deserving students.
- Awards to class toppers.
- Closed car parking and two wheeler parking facilities.
- Transport facility to all points in Coimbatore and neighboring towns.
- Subsidized canteen which supplies hygienic and nutritious food.
- Concessional medical assistance 24X7 at Subbu Hospital, Karamadai.
- Ambulance facility during emergencies.
- Provision for insurance and accident 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, Alumni Association is present in SSEC campus. Alumini's meet at regular intervals and discuss about the growth and suggest plans and involve themselves in improving academic activities like better forum on placement training and helping college in getting in-plant training, industrial visits, etc.

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 5.9 Percentages of Students Progressing to Higher Education and Employment

Student Progression	2010 - 2014	2011 - 2015	2012-2016
	Percentage		
Higher Education	3	2.28	2.93
Campus recruitment	80.93	52.28	60.99
Other than campus recruitment	2.67	8.16	6.15

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 program-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 5.10 Pass Percentages and Completion Rate

Department	Year	Number of Students Enrolled in First Year	Number of students enrolled in Second Year (Lateral Entry)	Total Number of Students Enrolled	Debarred	Transferred	Discontinued	Total Number of Students Dropped Out	Number of Students Appeared in Final Semester	Number of Students Obtained Degree	Completion Rate
CSE	2010-2014	46	14	60	-	-	3	3	57	52	91.20%
	2011-2015	34	4	38	-	-	2	2	36	32	88.90%
	2012-2016	43	5	48	1	-	1	2	46	28	60.80%
ECE	2010-2014	44	20	64	-	-	1	1	63	54	85.71%
	2011-2015	40	11	51	-	-	8	8	43	19	44.18%
	2012-2016	60	5	65	1	2	2	-	65	49	75.38%
EEE	2010-2014	36	19	55	-	-	2	2	54	38	70.0%
	2011-2015	21	18	39	1	-	1	2	37	11	29.7%
	2012-2016	20	13	33	0	0	4	4	30	16	53.33%
MECH	2010-2014	58	13	71	-	-	1	1	70	59	84.28%
	2011-2015	144	33	147	-	-	10	10	137	100	72.90%
	2012-2016	107	25+12	144			5	5	139	108	77.69%
CIVIL	2010-2014	56	12	68	2	1	0	3	65	57	87.6%
	2011-2015	42	18	60	3	1	4	8	53	39	73.5%
	2012-2016	47	18	65	1	-	3	4	61	37	60.65%

5.2.3. How does the institution facilitate student progression to higher level of education and/or towards employment?

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 5.11 List of Invited Talks - Motivation to Higher Studies and Employment

S.No.	Date	Programme
1	06.08.2014	Job Opportunities in Gulf by Dr.S.Neelamani from Kuwait Institute of Scientific Research, Kuwait
2	20.02.2015	Future of IT in India and How prepared the students are? by Mr. S. Sakthivel Manikandan, BOSCH, Coimbatore
3	06.03.2015	Personality Development by Dr. P. Surya Narayanan, Government Arts College, Coimbatore
4	14.03.2015	Creating Awareness about the Industrial Opportunities by Mr.N.Viswanathan, CEO, Ammarun

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

The Fear of failure and inadequacy are major challenges that students face and the institution takes all efforts to reduce the dropout rate. Students who have difficulty with particular subjects are identified by subject teachers through regular class tests. Remedial / Corrective classes are handled by subject teachers after college hours. Cycle tests and assignments are given to assess the level of improvement. Regular counseling by the subject staff, Class Advisor and Tutor help to restore confidence. When failure is due to psychological issues, professional counseling is given.

5.3 Student Participation and Activities

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

The institution offers ample opportunities to the students to participate in various sports, games, cultural and other extracurricular activities. Required infrastructural facilities, training and other amenities are provided to such students and necessary assistance is offered to the winners of several prizes in Anna University-Zonal and Inter Zonal/State/National level tournaments. Gym facility is provided to the students to make them physically fit.

Table 5.12 Details of Sports Activities Schedule

S.No	Organizer	Name of the Event
Academic Year 2016-2017		
1	Extramural Tournament at UIT, Coimbatore.	Foot Ball
2	Anna University Zonal – XI Intercollegiate Hockey Tournament held at Government College of Technology, Coimbatore.	Hockey
3	Anna University Zonal - XI Intercollegiate Kabbadi Tournament held at Sasurie Academy of Engineering, Coimbatore.	Kabbadi
4	Anna University Zonal-XI Intercollegiate Volley Ball Tournament held at Anna University Regional Centre, Coimbatore.	Volley Ball
5	Anna University Zonal-XI Intercollegiate Basket Ball Tournament held at Info Institute of Engineering and Technology, Coimbatore.	Basket Ball
6	Anna University Zonal-XI Intercollegiate Cricket Tournament held at Kumaraguru College of Technology, Coimbatore.	Cricket
7	Anna University Zonal-XI Intercollegiate Kho-Kho Tournament held at KGISL	Kho-Kho

	Institute of Technology, Coimbatore.	
8	Anna University Zonal-XI Intercollegiate Ball Badminton Tournament held at Sri Ramakrishna Engineering College, Coimbatore.	Ball Badminton
9	Anna University Zonal-XI Intercollegiate Athletic meet held at Kumaraguru College of Technology, Coimbatore.	Athletics
Academic Year 2015-16		
1	Anna University Zonal-XI Intercollegiate Chess Tournament held at Sriguru Institute of Technology, Coimbatore.	Chess
2	Anna University Zonal-XI Intercollegiate Hockey Tournament held at Kumaraguru College of Technology, Coimbatore.	Hockey
3	Anna University Interzone held at Kongu Nadu Engineering College, Trichy.	Athletics
4	TEAKWANDO- State Level Tournament held at Rajapalayam.	Athletics
Academic Year 2014-15		
1	Anna University Zonal-XI Intercollegiate Cricket Tournament held at Government College of Technology, Coimbatore.	Cricket
2	Anna University Zonal-XI Intercollegiate Foot Ball Tournament held at Government	Foot Ball

	College of Technology, Coimbatore.	
3	Anna University Zonal-XI Intercollegiate Athletic meet held at Kumaraguru College of Technology, Coimbatore.	Athletics
Academic Year 2013-14		
1	Anna University Inter Zone Tournament held at VRS Engineering College, Villupuram.	Kho Kho
2	Anna University Inter Zone Tournament held at Care Group of Institutions, Trichy	Basket Ball
3	Anna University Inter Zone Tournament held at JJ Engineering College, Trichy	Cricket
4	Anna University Inter Zone Tournament held at Saveetha Engineering College, Chennai	Kabadi
5	Anna University Inter Zone Tournament held at Athiyaman Engineering College,Hosur	Athletics

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 5.13 External Tournaments

S. No.	Academic Year	Student Name	Event Name	Venue	Prize Won
1	2014-2015	Cricket Team	Cricket	Anna University Zonal-XI Intercollegiate Cricket Tournament held at Government College of Technology, Coimbatore	3rd Prize
2	2014-2015	Foot Ball Team	Foot Ball	Anna University Zonal-XI Intercollegiate Foot ball Tournament held at Government College of Technology, Coimbatore	3rd Prize
3	2014-2015	C. Kamalahasan	1500m & 20km	Anna University Zonal-XI Intercollegiate Athletic meet held at Kumaraguru College of Technology, Coimbatore	1st Prize

4	2014-2015	C.Gopinath	5000m & 10000 m	Anna University Zonal-XI Intercollegiate Athletic meet held at Kumaraguru College of Technology, Coimbatore	1st Prize
5	2015-2016	Chess Team	Chess	Anna University Zonal-XI Intercollegiate Chess Tournament held at Sriguru Institute of Technology, Coimbatore	3rd Prize
6	2015-2016	Hockey Team	Hockey	Anna University Zonal-XI Intercollegiate Hockey Tournament held at Kumaraguru College of Technology, Coimbatore	3rd Prize
7	2015-2016	P.Santhana Prasath	400m Hurdles	Anna University Zonal-XI Intercollegiate Tournament held at Kumaraguru College of Technology, Coimbatore	2nd Prize
8	2015-2016	B.Ramakrishnan	Discus Throw	Anna University Zonal-XI Intercollegiate Chess Tournament held at Kumaraguru College of Technology, Coimbatore	3rd Prize
9	2015-2016	C.Kamalahasan	5000m	Anna University Inter Zone held at Kongu Nadu Engineering College, Trichy	1st Prize

10	2015-2016	College Team	Atheletics	TEAKWANDO-State Level Tournament held at Rajapalayam	Over all Championship
11	2016-2017	College Team	Hockey	Anna University Zonal-XI Intercollegiate Hockey Tournament held at Government College of Technology, Coimbatore	3rd Prize
12	2016-2017	College Team	Kabbadi	Anna University Zonal-XI Intercollegiate Kabbadi Tournament held at Sasurie Academy of Engineering , Coimbatore	Runner
13	2016-2017	College Team	Basket Ball	Anna University Zonal-XI Intercollegiate Basket ball Tournament held at Info Institute of Engineering and Technology, Coimbatore	4th Place
14	2016-2017	C.Kamalahasan	1500m	Anna University Zonal-XI Intercollegiate Athletic meet held at Kumaraguru College of Technology, Coimbatore	2nd Prize
15	2016-2017	C.Kamalahasan	5000m	Anna University Zonal-XI Intercollegiate Athletic meet held at Kumaraguru College of Technology, Coimbatore	2nd Prize

| 16 | 2016-2017 | R.Devaraj | 20,000m | Anna University Zonal-XI Intercollegiate Athletic meet held at Kumaraguru College of Technology, Coimbatore | 2nd Prize |
| 17 | 2016-2017 | S. Tirupathi | Pole Vault | Anna University Zonal-XI Intercollegiate Athletic meet held at Kumaraguru College of Technology, Coimbatore | 3rd Prize |

Student's Over all Championship Award for Cricket Tournament

Intercollege Basket Ball Tournament

Table 5.14 Students Achievements

Department of Computer Science & Engineering					
Name of the Event	**Date**	**Name of the Student**	**National /zonal**	**Host College**	**Achievements**
Academic Year 2014-2015					
Debugging	06-02-2015	A.Sowganthi	National	Nehru Institue of Engineering & Technology, Coimbatore	Second Prize
Debugging, Surprise Event	06-02-2015	S.Manoj	National	Nehru Institue of Engineering & Technology, Coimbatore	First Prize

				Academic Year 2013-2014		
Treasure Hunt, Just a Minute	15-03-2014	S.Manoj	National	Maharaja Institute of Technology, Coimbatore	First Prize
Treasure Hunt	15-03-2014	V.Ram kumar	National	Maharaja Institute of Technology, Coimbatore	First Prize
Treasure Hunt	15-03-2014	R.B.Rajesh Kumar	National	Maharaja Institute of Technology, Coimbatore	First Prize
Treasure Hunt	15-03-2014	R.Ventakesh Prabhu	National	Maharaja Institute of Technology, Coimbatore	First Prize

Department of Electronics and Communication Engineering					
Name of the Event	Date	Name of the Student	National /Zonal	Host College	Achievements
Academic Year 2014-2015					
Cryptanalysis	19.08.2014	Keerthana.P	National	Adithya Institute of Technology, Coimbatore	Second Prize
Academic Year 2013-14					

SYMPOT RIX 2013	05.09.2013	Revathi.R Kasthuri.P	National	Sree Sakthi Engineering College, Coimbatore	First Prize
ADZAP	24.02.2014	Keerthana.P	National	Sree Sakthi Engineering College, Coimbatore	First Prize
Code Debugging	24.02.2014	Keerthana.P	National	Sree Sakthi Engineering College, Coimbatore	Second Prize
Circuit Debugging	21.03.2014	Keerthana.P	National	Sree Sakthi Engineering College, Coimbatore	First Prize

Department of Electrical and Electronics Engineering					
Name of the Event	Date	Name of the Student	National /Zonal	Host College	Achievements
Academic Year 2013-14					
Paper Presentation	13.09.13	K.Kaliraja R.Soma Sundaram	National	J.K.K.Munirajah College of Technology, Erode	Third prize
Paper Presentation	13.09.13	S.C.Shree haree P.Venkadeshan N.Vinoth	National	J.K.K.Munirajah College of Technology, Erode	Second prize
Paper Presentation	13.09.13	P.Nivetha S.Kavi mozhi	National	J.K.K.Munirajah College of Technology, Erode	Second prize
Spot Event	31.08.13	S.C.Shree haree R.Aravinth	National	Ranganathan Engineering College, Coimbatore	First prize
Spot Event	31.08.13	S.C.Shree haree M.Mooventhan S.Suresh	National	Ranganathan Engineering College, Coimbatore	First prize
Spot Event	05.07.13	S.Senthil Kumar	National	SNS College of Engineering, Coimbatore	First prize

Spot Event	05.07.13	S.Senthilkumar A.Iyyappan	National	SNS College of Engineering, Coimbatore	Second prize

Department of Mechanical Engineering					
Name of the Event	**Date**	**Name of the Student**	**National /Zonal**	**Host College**	**Achievements**
Academic Year 2014-15					
Parachute Making	31-03-2015	Aravind S Aravindan D	National	Nehru Institute of Technology, Coimbatore	First prize
Academic Year 2013-14					
Technical Quiz	26-07-2013	Pradeep.S Arun Sebastin A	National	KSR College of Engineering, Tiruchengode	Third Prize

Department of Civil Engineering					
Name of the Event	**Date**	**Name of the Student**	**National /Zonal**	**Host College**	**Achievements**
Academic Year 2016-17					
CADD Contest	17-09-2016	Naveen kumar P	National	Dr.N.G.P. Institute of Technology,	First prize

			Coimbatore	
Connect ion	17-09-2016	Naveen kumar P	Dr.N.G.P. Institute of Technology, Coimbatore	First prize

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 Annual Graduation day and Alumni Meet are ideal occasions to interact and elicit information from graduates on industry academic promotion. Formal and informal meetings helped to identify the usefulness of the Value Added Programs offered and suggestions received on future industry requirement.

5.3.4   How does the institute involve & encourage students to publish materials like catalogues/wall magazines/institute magazine & other material? List material for past four academic sessions.

The power and art of expression along with the technicality entailed in publication are important skills to be acquired in documenting the project work that is mandatory for a student.

Care is taken to ensure that the annual college magazine and department newsletters get maximum contribution from students. Collaborative technical publications with faculty are also encouraged.

Table 5.15 Students Paper Presentations

<table>
<tr><td colspan="5">Department of Electronics and Communication Engineering</td></tr>
<tr><td>S.No</td><td>Name Of The Student</td><td>Date</td><td>Paper Presentation</td><td>Venue</td></tr>
<tr><td colspan="5" align="center">Academic Year 2014-2015</td></tr>
<tr><td>1</td><td>Shanmini.M</td><td>19.08.2014</td><td>Paper Presentation</td><td>Adithya Institute of Technology, Coimbatore</td></tr>
<tr><td>2</td><td>Visalatchi.A,</td><td>19.08.2014</td><td>Papers Presentation</td><td>Adithya Institute of Technology, Coimbatore</td></tr>
<tr><td>3</td><td>Ramya Sakthi A.</td><td>19.08.2014</td><td>Papers Presentation</td><td>Adithya Institute of Technology, Coimbatore</td></tr>
<tr><td>4</td><td>Thangamani R.</td><td>19.08.2014</td><td>Papers Presentation</td><td>Adithya Institute of Technology, Coimbatore</td></tr>
<tr><td>5</td><td>Priyanga T.</td><td>19.08.2014</td><td>Papers Presentation</td><td>Adithya Institute of Technology, Coimbatore</td></tr>
</table>

<table>
<tr><td colspan="5">Department of Electrical and Electronics Engineering</td></tr>
<tr><td>S.No</td><td>Name of the Student</td><td>Date</td><td>Paper Presentation</td><td>Venue</td></tr>
<tr><td colspan="5" align="center">Academic Year 2015-2016</td></tr>
<tr><td>1</td><td>R.Dhana Kumar</td><td>11.09.15</td><td>Paper Presentation</td><td>Coimbatore Institute of Technology, Coimbatore</td></tr>
<tr><td>2</td><td>R.Gowtham</td><td>11.3.16</td><td>Paper Presentation</td><td>SVS College of Engineering, Coimbatore</td></tr>
<tr><td>3</td><td>R.Dhana Kumar</td><td>11.3.16</td><td>Paper Presentation</td><td>SVS College of</td></tr>
</table>

				Engineering, Coimbatore
	Academic Year 2014-15			
4	K.Mangesh	27.09.14	Paper Presentation	Christ College of Engineering, and Technology
5	Robin Stephen	27.09.14	Paper Presentation	Christ College of Engineering, and Technology
6	R.Gowtham	04.03.15	Paper Presentation	United Institute of Technology, Coimbatore
7	R.Krishnakanth	04.03.15	Paper Presentation	United Institute of Technology, Coimbatore
8	M.Sakthivel	04.03.15	Paper Presentation	United Institute of Technology, Coimbatore
9	P.Divyadevi	04.03.15	Paper Presentation	United Institute of Technology, Coimbatore
	Academic Year 2013-14			
10	K.Kaliraja	13.09.13	Paper Presentation	J.K.K.Munirajah College of Technology,Erode
11	R.Soma Sundaram	13.09.13	Paper Presentation	J.K.K.Munirajah College of Technology,Erode
12	S.C.Shree haree	13.09.13	Paper Presentation	J.K.K.Munirajah College of Technology,Erode
13	P.Venkadeshan	13.09.13	Paper Presentation	J.K.K.Munirajah College of Technology,Erode
14	N.Vinoth	13.09.13	Paper Presentation	J.K.K.Munirajah College of Technology,Erode
15	P.Nivetha	13.09.13	Paper Presentation	J.K.K.Munirajah College

				of Technology,Erode
16	S.Kavi mozhi	13.09.13	Paper Presentation	J.K.K.Munirajah College of Technology,Erode
17	K.Kaliraja	31.08.13	Paper Presentation	Ranganathan Engineering College, Coimbatore
18	A.Iyyappan	31.08.13	Paper Presentation	Ranganathan Engineering College, Coimbatore
19	S.Senthil kumar	31.08.13	Paper Presentation	Ranganathan Engineering College, Coimbatore
20	S.Suresh	31.08.13	Paper Presentation	Ranganathan Engineering College, Coimbatore
21	A.Vaishak	31.08.13	Paper Presentation	Ranganathan Engineering College, Coimbatore
22	P.Tamilarasan	31.08.13	Paper Presentation	Ranganathan Engineering College, Coimbatore
23	S.C.Shree haree	31.08.13	Paper Presentation	Ranganathan Engineering College, Coimbatore
24	R.Aravinth	31.08.13	Paper Presentation	Ranganathan Engineering College, Coimbatore
25	S.Senthil Kumar	05.07.13	Paper Presentation	SNS College of Engineering, Coimbatore
26	A.Iyyappan	05.07.13	Paper Presentation	SNS College of Engineering, Coimbatore

Table 5.16 Students Publications in Conferences

S.No	Date	Name of the Student	Conference	Venue
		Department of Mechanical Engineering		
1	01.04.2016	Sakthivel T	National Conference on Modern Trends in Mechanical Engineering	Nandha Engineering College, Erode
2	01.04.2016	Dhinakaran R	National Conference on Modern Trends in Mechanical Engineering	Nandha Engineering College, Erode
3	01.04.2016	Pradheep R	National Conference on Modern Trends in Mechanical Engineering	Nandha Engineering College, Erode
4	01.04.2016	Kumaresan M	National Conference on Modern Trends in Mechanical Engineering	Nandha Engineering College, Erode
5	01.04.2016	Sasikumar G	National Conference on Modern Trends in Mechanical Engineering	Nandha Engineering College, Erode
6	01.04.2016	Pradeep Kumar S	National Conference on Modern Trends in Mechanical Engineering	Nandha Engineering College, Erode
7	01.04.2016	Saravanan	National Conference on Modern Trends in Mechanical Engineering	Nandha Engineering College, Erode
8	01.04.2016	Sankar Ganesh	National Conference on Modern Trends in Mechanical Engineering	Nandha Engineering College, Erode

S.No	Date	Name of the Student	Conference	Venue
		Department of Electrical and Electronics Engineering		
1	26.03.2014	Aravinth.R	International Conference on Current Trends in Engineering & Technology	Akshaya College of Engineering & Technology, Coimbatore
2	26.03.2014	Venkadeshan P	International Conference on Current Trends in Engineering & Technology	Akshaya College of Engineering & Technology, Coimbatore
3	26.03.2014	Prem Kumar R.S	International Conference on Current Trends in Engineering & Technology	Akshaya College of Engineering & Technology, Coimbatore
4	26.03.2014	Selvarajan.L	International Conference on Current Trends in Engineering & Technology	Akshaya College of Engineering & Technology, Coimbatore
5	24.03.2014	Aravinth.R	National Conference on Computation, Control and Communication Technologies	Kalaignar Karunanithi Institute of Technology, Coimbatore
6	24.03.2014	Venkadeshan P	National Conference on Computation, Control and Communication Technologies	Kalaignar Karunanithi Institute of Technology, Coimbatore
7	24.03.2014	PremKumarR.S	National Conference on Computation, Control and	Kalaignar Karunanithi Institute of

S.no	Date	Name of the Student	Conference	Venue
			Communication Technologies	Technology, Coimbatore
8	24.03.2014	Selvarajan	National Conference on Computation, Control and Communication Technologies	Kalaignar Karunanithi Institute of Technology, Coimbatore
9	24.03.2014	N.Nivethitha	National Conference on Computation, Control and Communication Technologies	Kalaignar Karunanithi Institute of Technology, Coimbatore
10	24.03.2014	NishaParveen A.R	National Conference on Computation, Control and Communication Technologies	Kalaignar Karunanithi Institute of Technology, Coimbatore
11	24.03.2014	Ramya R	National Conference on Computation, Control and Communication Technologies	Kalaignar Karunanithi Institute of Technology, Coimbatore

Department of Civil Engineering				
S.no	Date	Name of the Student	Conference	Venue
1	19.02.2016	Lavanya M	National Conference on Recent Trends in Engineering and Technology	Rathinam Technical Campus, Coimbatore
2	19.02.2016	Selvam M	National Conference on Recent Trends in Engineering and Technology	Rathinam Technical Campus, Coimbatore
3	19.02.2016	Prakash Kumar S	National Conference on Recent Trends in Engineering and Technology	Rathinam Technical Campus, Coimbatore

4	19.02.2016	Gopala Krishnan A	International Conference on Advanced Engineering and Technology for Sustainable Development	Karpagam College of Technology, Coimbatore
5	19.02.2016	Mohan Ram R	International Conference on Advanced Engineering and Technology for Sustainable Development	Karpagam College of Technology, Coimbatore
6	19.02.2016	Saranvel D	International Conference on Advanced Engineering and Technology for Sustainable Development	Karpagam College of Technology, Coimbatore
7	19.02.2016	Seenuvasan G	International Conference on Advanced Engineering and Technology for Sustainable Development	Karpagam College of Technology, Coimbatore
8	26.02.2016	Vishal V	National Conference on Innovation in Applied Science, Engineering and Technology	Arjun College of Technology, Coimbatore
9	26.02.2016	Sowmiya V	National Conference on Innovation in Applied Science, Engineering and Technology	Arjun College of Technology, Coimbatore
10	26.02.2016	Sridharan M	National Conference on Innovation in Applied Science, Engineering and Technology	Arjun College of Technology, Coimbatore

11	26.02.2016	Renuga Devi T	National Conference on Innovation in Applied Science, Engineering and Technology	Arjun College of Technology, Coimbatore
12	26.02.2016	Vijayabharathi K	National Conference on Innovation in Applied Science, Engineering and Technology	Arjun College of Technology, Coimbatore
13	26.02.2016	Amaresan N	National Conference on Innovation in Applied Science, Engineering and Technology	Arjun College of Technology, Coimbatore
14	26.02.2016	Shabeeb C	National Conference on Innovation in Applied Science, Engineering and Technology	Arjun College of Technology, Coimbatore
15	04.03.2016 to 05.03.2016	Vadivel A	International Conference on Global Innovations in Computer Technology	Jai Shriram Group of Institutions, Tirupur
16	04.03.2016 to 05.03.2016	Renuga Devi T	International Conference on Global Innovations in Computer Technology	Jai Shriram Group of Institutions, Tirupur
17	04.03.2016 to 05.03.2016	Prasanth P	International Conference on Global Innovations in Computer Technology	Jai Shriram Group of Institutions, Tirupur
19	04.03.2016 to 05.03.2016	ManigandaMoorthi R	International Conference on Global Innovations in Computer Technology	Jai Shriram Group of Institutions, Tirupur

20	04.03.2016 to 05.03.2016	Pavithran M	International Conference on Global Innovations in Computer Technology	Jai Shriram Group of Institutions, Tirupur
21	04.03.2016 to 05.03.2016	Ponmadasamy R	International Conference on Global Innovations in Computer Technology	Jai Shriram Group of Institutions, Tirupur
22	18.03.2016	Thabir Basha	International Conference on Concrete Vision for Humanity	Ranganathan Engineering College, Coimbatore
23	18.03.2016	Aneesh	International Conference on Concrete Vision for Humanity	Ranganathan Engineering College, Coimbatore
24	18.03.2016	Ashok Kumar V	International Conference on Concrete Vision for Humanity	Ranganathan Engineering College, Coimbatore
25	18.03.2016	Shajhzhan	International Conference on Concrete Vision for Humanity	Ranganathan Engineering College, Coimbatore
26	18.03.2016	Mohammed Abith J	International Conference on Concrete Vision for Humanity	Ranganathan Engineering College, Coimbatore
27	18.03.2016	Rajesh Kumar R	International Conference on Concrete Vision for Humanity	Ranganathan Engineering College, Coimbatore

28	18.03.2016	Nighil Sankar	International Conference on Concrete Vision for Humanity	Ranganathan Engineering College, Coimbatore
29	18.03.2016	Brian Juliet Roy	International Conference on Concrete Vision for Humanity	Ranganathan Engineering College, Coimbatore
30	18.03.2016	Liya Jolly	International Conference on Concrete Vision for Humanity	Ranganathan Engineering College, Coimbatore
31	07.03.2015	Seenuvasan G	National Conference on Innovative Technologies and developments in Civil Engineering	Sree Sakthi Engineering College, Coimbatore

5.3.5 Does the institute have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Each department has a student association to which office bearers are elected who voice the opinions of the student community. Students actively participate as members in professional bodies and societies.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

The following Academic bodies have student representatives:

- Placement Committee.
- College functions committee.
- Hostel students Council.
- Professional student chapters.
- Department Associations.

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 students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Vision

"To be recognized as an International Leader in Engineering Education, Research and the application of knowledge to benefit Society Globally."

Mission

"To develop high quality technical education and personnel with a sound footing on basic engineering principles, technical and managerial skills, innovative research capabilities, and exemplary professional conduct to lead and to use technology for the progress of mankind, adapting themselves to changing technological environment with the highest ethical values as the inner strength."

The institute is keen in creating an academic environment where students are continually challenged and motivated to do their best possible work, our entrepreneur fervor will provide practical knowledge and right kind of motivation. This will be a different kind of educational experience with the abiding faith in the individual ability to excel. We believe in nurturing human values and engineering acumen together and will develop well qualified engineers as savior of the society.

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

We, at Sree Sakthi Engineering College are committed to provide Quality Education in Engineering. This is achieved through up gradation of facilities, Faculty Development, campus placement and continual improvement. Students are also provided opportunities for industrial based practical knowledge training and extra-curricular activities. Focus is also given to conduct regular short term courses whereby both students and faculty are updated with technological developments in the field of their interest.

Role of Top Management

The Governing Council of the Institute comprises of Chairman and the members of the trust, eminent academicians, industrialists, corporate heads, representatives from government bodies, Director of the Institute and Principal as member secretary. The Top Management conducts Governing Council Meeting once in a year, to review and plan various academic, infrastructural development, human resource policy, budget, etc., In addition, the management conducts management review meeting to analyze the procurement of the various quality objectives such as academic, placement, Co-curricular and Extracurricular activities.

Composition of Governing Council Members

Sl. No	Name	Position
1	Shri.N.Dharmalingam	Chairman
2	Dr.S.Karthikeyan	Correspondent
3	Smt K.Punithavalli	Secretary
4	Shri S.Murugan	Trustee
5	Smt D.Savithri	Trustee
6	Dr.M.Rajendran	Director
7	Dr V.Vel Murugan	Principal
8	Dr G.Mahesh	Academician
9	Dr I.Shanthi	Academician
10	Dr N.Alagumoorthy	Academician
11	Mr R.Ashokan	Industrialist
12	Mr.M.Dharmalingam	Architect

Principal

      The Principal prepares the college level academic calendar based on the Anna university academic schedule and the same is circulated to all the departments well in advance for the preparation of department calendar. The Principal convenes meeting with all Head of the Departments and the Functional Heads to assess the progress of the academic and other developmental activities of the Institute and give guidelines for further improvement/enhancement. In addition, based on the need the Principal conveys important instructions in the form of circular. The Director and the Principal regularly conducts the department wise review meeting to review the progress of academic, placement, Co-curricular and Extracurricular activities.

Faculty

      After receiving the academic calendar from the Principal, the HoDs of each department prepares well defined department level calendar and action plan and present the same for the approval of Director and Principal. Each department HoD conducts meeting with the faculty concerned to review the following:

- Students attendance and discipline
- Portions covered
- Daily and Internal assessment test performance
- Co-curricular and Extra-curricular activities
- Practical Knowledge Training
- Training and Placement

      In addition, the following meetings are conducted to get the feedback from the stakeholders.

- Class Committee meeting
- Parents Teacher Meeting
- Alumni meeting

6.1.3 What is the involvement of the leadership in ensuring?

The policy statements and action plans for fulfillment of the stated mission

- The management is committed to provide quality education in Engineering through up gradation of facilities, faculty development, campus placement and continual improvement. The management follows a systematic approach in defining the objectives, action plans to achieve the same, monitoring the execution through periodic reviews and suggestions for further improvement.

- The foreseen thought of Management provides opportunity for students to become industry ready through Industrial Practical Knowledge Training and extra-curricular activities. Focus is also given to conduct value added courses and regular short term courses whereby both students and faculty are updated with technological developments in the field of their interest.

- The Management Review meeting reviews and ensures the achievement of defined objectives.

- The Governing Council ensures the policy statements and action plans are fulfilled in accordance with the stated mission of the institution.

Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

The Principal prepares the college level academic calendar based on the Anna university academic schedule and the same is circulated to all the departments well in advance for the preparation of department action plan. The Principal convenes meeting with all Head of the Departments and the Functional Heads like IIPC Coordinator, Placement Officer, etc., to assess the progress of the academic and other developmental activities of the Institute and give guidelines for further improvement/enhancement.

Interaction with stakeholders

The Management ensures the collection of 360^0 feedback from all its stakeholders, the students, alumni, parents and industry personnel   regarding the effectiveness of the curriculum in shaping the students as industry ready and national development at large.

Students

The feedbacks of the students are obtained through online system and class committee meetings periodically. Necessary action is taken in-turn to fulfill the needs based on the feedback given by the students.

Alumni

The alumni meeting are conducted by all departments every year to enable them to give their suggestions regarding curriculum. The alumni are very much interested in their Alma mater and also help their juniors to know the updates required in their curriculum changes.

Parents

The Parent's-Teacher meeting is conducted by all departments to enable them to give suggestions regarding the curriculum apart from getting an opportunity to know about the progress of their wards. The feedback given by the parents are analyzed and the necessary action taken for the reasonable suggestions.

Employers/Industries

Representatives of various industries give extremely useful feedback regarding the employability of the students and also the expectation of the corporate world on curriculum. Hence, any additional requirements that the industries may appreciate is

provided by the college through proper channel by all possible means. The feedbacks collected are analyzed internally by the Principal & Head of the Department and the remedial actions are initiated to sort out the problems, if any. The feedback system helps in continual improvement of all the functional areas like academic, placement etc.

Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

The institute collects feedback from all its stakeholders periodically and the same is analyzed for identifying the critical areas which need to be addressed in future. All the suggestions given by different stakeholders are considered and incorporated for developing action plan.

Reinforcing the culture of excellence

The academic excellence is achieved thorough the implementation of following practices:

- Up gradation of knowledge and skills of faculty members by effective utilization of innovative teaching methodologies such as NPTEL resources, preparing Research and Development proposals, improving the research publications, etc.

- The Institute regularly organizes Faculty Development Programmes to hone their teaching, research and leadership skills.

- The employability skills of students are enhanced by ensuring their active participation in various activities such as: valued added courses, Industrial Practical Knowledge Training, Pre-placement Training Programmes, Industrial Guest lectures, Project and Paper presentations in various symposiums, Workshops, etc.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The Institute adopts the following procedures to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time.

Governing Council Meeting

The Top Management conducts Governing Council Meeting once in a year, to review and plan various academic, infrastructural development, human resource policy, budget, etc.,.

Management Review Meeting

The management conducts management review meeting to review and analyze the attainment of the various quality objectives such as academic, placement, Co-curricular and Extracurricular activities.

Department wise review meeting

The Director and the Principal conducts the department wise review meeting to review the progress of Curricular, Co-curricular activities, Training & Placement and Extracurricular activities after internal assessment tests.

Internal Quality Assurance Cell

IQAC has been constituted to achieve academic excellence in the teaching & learning process through the following activities.

- Implementing ICT and interactive teaching methodologies to ensure student centric learning environment

- Conducting remedial classes to improve the performance of slow learners
- Collecting students feedback about quality of teaching-learning process
- Providing a forum for the faculty members & students to gain knowledge on recent technological advancements through organizing Guest Lectures, Workshops, Seminars and Conferences.
- Conducting periodic review of academic performance for the facultyto monitor the student's progress in academic & co-curricular achievements.

Class Committee Meeting

The Head of the Department concerned constitutes the class committee for each class. The class committee meets thrice in a semester to discuss the progress of teaching-learning process. The students and faculty members are given an equal opportunity to express their suggestions and feedbacks during the meetings. The feedback obtained from the students and faculty members are analyzed by the Head of the Department and Principal and the necessary remedial measures are taken to ensure the quality of teaching learning process.

Course Committee Meeting

The course committee is constituted for each common theory course offered to more than one discipline or group and it comprises of all the teachers teaching the common course with one of them nominated as course coordinator.

Feedback from students, industry, etc.,

Institute collects feedback from the students, alumni, parents, academic peers and industry personnel regarding the effectiveness of the curriculum in shaping the students as industry ready and national development at large. Based on the feedback, remedial actions are carried out to enrich the curriculum through various activities such as

Workshops, Guest Lectures, Industrial Practical Knowledge, Training and value added courses.

Department Faculty meeting

HoD's of each department conducts meeting regularly with the faculty members to review the students attendance, discipline, Daily portions covered, daily and Internal assessment test performance, Co-curricular and Extra-curricular activities, Practical Knowledge Training and Placement Training.

6.1.5 Give details of the academic leadership provided to the faculty top management?

The Management and the Principal provide adequate academic freedom to faculty members to augment teaching learning process and nurture versatility among students. The faculty members are given freedom to represent and devise plan for course delivery, conduct of experiments, improving the performance of the slow learners, preparing learning materials, organizing various curricular, co-curricular and extracurricular activities, students' projects and participation in various FDP/workshop/seminar/conferences.

Details of faculty members holding leadership to carry out academic, co-curricular and extracurricular activities through various committees are furnished below.

- Internal Quality Assurance Cell
- Research and Development Committee
- Examination Cell
- Library Advisory committee
- Industry Institute Partnership Cell
- Entrepreneurship Development Cell

- Career Guidance ,Training and Placement cell

- Women Development cell

- Grievance and redressal committee

- National Service Scheme

- Youth Red Cross

- Sports club

- Personality Development Cell

- Fine Arts Club

- Literary Club

- Apps Developer Club

- Rotaract Club

6.1.6 How does the college groom leadership at various levels?

The management strongly believes in decentralized environment and delegation of power to various HoD's, functional heads, faculty members and students for organizing and implementing various activities of the institute is the key to achieve the vision of the management.

The Management provides opportunity to the faculty members and students to exhibit their leadership skills by constituting various committees related to academic, co-curricular and extracurricular activities. The head of each committee are given full autonomy in decision making. In addition the management organizes various programs for developing leadership skills among faculty members and students.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

- The top level management of the Institute lays more emphasis on decentralization and delegation of authority to ensure good governance. The Principal is given sufficient administrative and academic freedom by the management to fulfill the vision and mission of the management. The academic roles and responsibilities are clearly defined and distributed uniformly among all the faculty members.

- Various Committees are constituted to execute academic and co-curricular activities efficiently which ensures transparency in administration. Heads of Departments are given full autonomy to plan, execute and monitor the functioning of the departments in terms of administrative, academic and co-curricular activities.

- The Institute encourages the participative decision-making through brainstorming sessions with all the faculty members concerned which ensures total participation.

Inaugural function of ISTE faculty chapter.

- The students association provides a forum for the students to exhibit their leadership skills by organizing various programmes such as Guest Lectures, Seminars /Workshops and other technical events.

Literary Club function

6.1.8 Does the college promote a culture of participativemanagement? If 'yes', indicate the levels of participative management.

Yes. The Institute promotes a culture of participative management by involving all the stakeholders, faculty and staff members in various decisions making. The Principal and senior professors represent the faculty community in the higher level council/committee such as Governing Council, Management Review meeting, Admission Committee, Training and Placement, Library advisory committee, Industry Institute Partnership Cell, Grievance redressal committee, Entrepreneurship Development Cell, Internal Quality Assurance Cell, Research and Development Cell, etc.,

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.

Quality Policy

SSEC, Coimbatore shall maintain and continually improve the quality of educational services, processes and campus environment, ensuring personality development of students and customer satisfaction.

The Quality policy is developed by the Top Management in consultation with various stakeholders like Alumni, Parents, Industries and Students etc.

The institution is committed to provide quality education in Engineering by,

- Developing adequate infrastructural facilities
- Up-gradation of faculty skill and knowledge
- Placements to all the eligible students
- Industrial practical knowledge training
- Value added courses
- Encouraging students to participate in co-curricular and extracurricular activities

To deploy the stated quality policy, it is understood by all the faculty and staff members and efforts are made at all levels to ensure its effective implementation.

The Top Management conducts Governing Council Meeting once in a year, to review various academic, infrastructural development, human resource policy, budget, etc., In addition, the management conducts management review meeting to review and analyze the attainment of the various quality objectives such as academic, placement, Co-curricular and Extracurricular activities.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes. The Institution has a perspective plan for development. The following aspects are considered for inclusion in the plan.

1. Implementing a smart class room environment in all class rooms
2. Introducing PG course in all the branches.
3. Enhancing research facilities in all engineering departments
4. Enhancing students and faculty exchange with reputed universities in abroad
5. Establishing Centre of Excellence in thrust areas
6. Getting accreditation by National Board of accreditation
7. Signing of MoU for Placement
8. Getting autonomous status

6.2.3 Describe the internal organizational structure and decision making processes.

Internal Organizational Structure

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                        ┌──────────────┐
                        │   CHAIRMAN   │
                        └──────┬───────┘
              ┌────────────────┴────────────────┐
              ▼                                 ▼
      ┌──────────────┐                  ┌──────────────┐
      │ CORRESPONDENT│                  │  SECRETARY   │
      └──────┬───────┘                  └──────────────┘
             │
             ▼
      ┌──────────────────────┐
      │  GOVERNING COUNCIL   │
      └──────────┬───────────┘
                 ▼
          ┌──────────────┐
          │   DIRECTOR   │
          └──────┬───────┘
                 ▼
          ┌──────────────┐
          │  PRINCIPAL   │
          └──────┬───────┘
                 ▼
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HOD's	Administrative Officer	Placement Officer	Support Service	Librarian	Physical Director	Hostel Warden	Maintenance In-charge

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   ▼
┌──────────────┐
│   Faculty    │
└──────┬───────┘
       ▼
┌──────────────┐
│Lab Technician│
└──────────────┘
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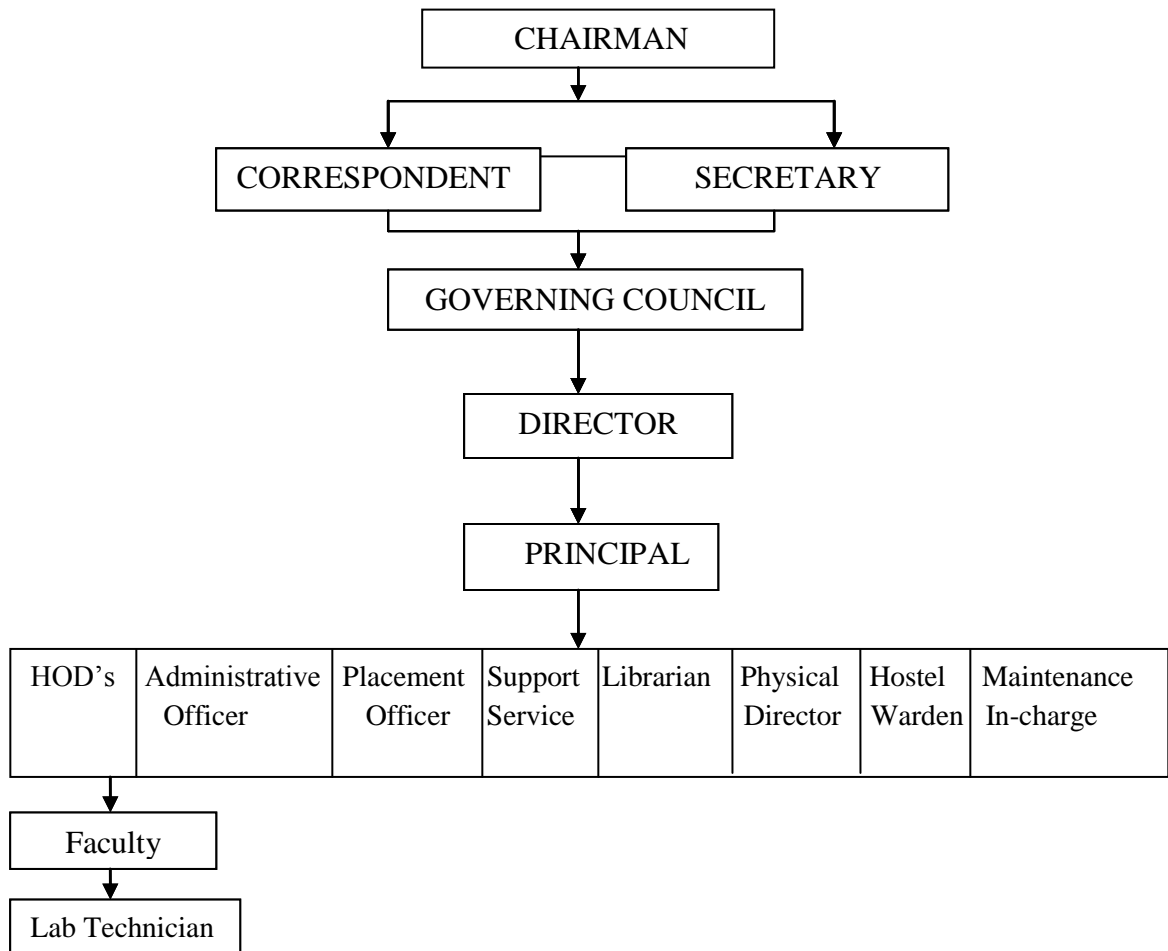
Decision making process

The decisions regarding various infrastructural development, human resource policy, budget, etc., are taken in the Governing Council Meeting. The Director is empowered to take decisions on human resource management and overall functioning of the Institute. The Principal is authorized to take decisions related to academic, co-curricular and extracurricular activities. The HoD's take decisions on the internal activities of the department related to faculty members and students.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- **Teaching & Learning**
- **Research & Development**
- **Community engagement**
- **Industry interaction**

Teaching & Learning

The Institute adopts the following quality improvement strategies for teaching and learning.

- By providing adequate infrastructural facilities
- Appointing well qualified and experienced faculty members
- Providing laboratories with latest equipments and software
- Special care to the slow learners
- Facilitating faculty members to upgrade their skill and knowledge in the emerging trends through enrichment courses
- Motivating faculty members to pursue higher studies

- Encouraging faculty members to use innovative teaching methodologies
- Providing Wi-Fi facility to utilize the online resources
- Resourceful Library facility for referring books, journals, etc.,

Research & Development

- All the departments of the institute have well equipped laboratories with adequate infrastructural facilities to carry out the research projects
- The institute has both wired & Wi-Fi internet facilities for the fast access of online resources.
- The faculty members are encouraged to publish their research contributions in various National & International Journals and conferences
- The institute encourages the research scholars by providing on-duty leave to succeed in their research.
- The institute motivates the faculty members to attend research oriented seminars/workshops/conferences, etc., by providing special on-duty leave.
- Encouraging faculty members to pursue Ph.D programmes in reputed universities
- The institute supports the researchers by providing high end computing facility with necessary software and with modern equipments
- The institute central library facilitates research oriented books, journals & e-journals for research reference.
- The institute level R&D committee reviews the progress of the research work and provides necessary inputs for the smooth & steady progress of the research work

Community engagement

- The institute encourages the participation of students in the extension activities including participation in NSS, YRC, etc., by providing On-duty leave and certificates to recognize their contribution. The institute motivates the faculty members to participate actively in extension activities by giving due weightage in their performance appraisal based on the level of contribution.

- The institute organizes various Women Empowerment programmes through Women Development Cell.

Blood Donation Programme

- Every year the institute sponsors the question and answer books for the higher secondary school students. The students from various districts are getting benefited through these programmes.

Sponsoring books to Higher secondary students

- Students from under-privileged and vulnerable sections of society are encouraged to apply for various scholarship schemes being offered by government and private agencies.

Women Empowerment Cell

Human resource management

- The Institute appoints adequate number of qualified faculty through the procedure of open advertisement and interview by internal expert committee.
- The Institute organizes various orientation and enrichment programmes for both teaching and non-teaching staff members for upgrading their skills in the latest technology.

The Institute provides following benefits to the faculty and staff members.

- The management contributes an amount equal to the employee share for EPF with Pension scheme and Group insurance.
- Medical leave provision is given to the faculty and staff members based on the request.
- On duty is provided for pursuing higher studies, attending enrichment courses/seminars/conferences/workshops and exam duties.
- The faculty and staff members are entitled to avail summer and winter vacations, casual leave, compensation leave and earn leave.

Industry interaction

The institute-industry interactions are carried out through the following practices.

- Value added courses are organized by all the departments to bridge the gap between industry and academia. This enhances the placement opportunities of the students.
- Guest Lecture by industry experts / workshops are also organized to fulfill the specific requirements as demanded by the recruiting industries.
- Students are encouraged to carry out their project works in reputed industries.
- Alumni are invited to share their experiences on emerging technologies which is being used by the industries
- All the departments of the institute consistently interacts with the industry by

signing an MoU for training the students in the emerging technologies and also for placements

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 Head of the institution collects adequate information through the following means.

- Feedback from students, faculty, Alumni, parents, recruiters, visiting experts, industries, etc.
- Suggestion box kept near the office.
- HOD's meeting with Principal
- Various committee meeting such as class committee, grievance and redressal committee, women development cell, etc.

The Head of the institution ensures availability of adequate information to the top management and the stakeholders, to review the activities of the institution by the following ways.

- Presentation in Governing council meeting
- Management Review Meeting
- Parent-Teacher Meeting
- Alumni Meeting
- Department Newsletter
- College and Placement Brochure
- College Website

Alumni meet of ECE 2014 Batch

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 management encourages and supports the involvement of staff in improving the effectiveness and efficiency of the institutional processes by decentralized environment and delegation of power to various HoD's, functional heads and faculty members for organizing and implementing various activities of the institute.

- The Management has recognized that, the faculty members are its pillar and plays a vital role in institute's growth. Therefore, the management encourages the faculty members with the following practices.

- The Management provides opportunity to the faculty members to head various committees related to academic, co-curricular and extracurricular activities to exhibit their leadership skills.
- The Management generously encourages the faculty members to attend FDP/STTP/Seminars/Workshops/Conferences to update their knowledge in emerging areas.

Faculty Development Program

- Faculty members are exposed to the latest trends being followed in industries.
- Faculty members are motivated to pursue higher studies by providing On duty
- Yearly salary increment and promotion is based on performance
- Faculty members producing 100% results in the theory examinations conducted by Anna University are recognized by presenting memento and citation during Annual Day celebration of every year
- Faculty members are encouraged to carry out R & D and consultancy projects.

- Sponsoring registration fees for the faculty members those who are presenting papers in the reputed international conferences.

In addition to the above, the management provides following benefits to the faculty and staff members.

- The management contributes an amount equal to the employee share for EPF with Pension scheme and Group insurance.
- Medical leave provision is given to the faculty and staff members based on the request.
- The faculty and staff members are entitled to avail summer and winter vacations, casual leave, compensation leave and earn leave.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

The resolutions made by the Management Council in the last year and the status of implementation of such resolutions are given below:

S.No	Agenda Discussed	Discussion/ Suggestions	Action Taken
MEETING HELD ON :21.04.2014			
1.	To train students for the industry.	Members advised to find new avenues to provide practical training for placement.	The students of SSEC are provided training in our industries to get placed in reputed companies.
MEETING HELD ON :28.04.2015			
1.	To prepare the ground for conducting of various games.	The members advised to conduct tournaments for the students to improve student's skills.	The Sports Committee is conducting tournaments to School and Polytechnic students.
2.	To prepare the moving pathway with pavers.	The members suggested for laying pavers for the benefit of students moving in path way.	The pathway near Civil and Mechanical block is provided with pavers.
MEETING HELD ON :02.05.2016			

1.	The Management decided to apply for NAAC	The members approved the decision of the management	Decided to implement the NAAC procedures
2.	The Management decided to give software coaching to the benefit of the students	The members suggested some of the software that are used in industries	Approved to conduct courses in all Departments

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 makes a provision for according the status of autonomy to an affiliated institution.

The management has a vision to get autonomous status for the Institution for implementing various innovative practices in the curriculum to meet out the requirement of the recruiters. In this regard, the institute has applied for seeking the process of getting accredited by NAAC.

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 institute has a student grievance and redressal cell exclusively for men and women to promptly attend and resolve the grievances / complaints effectively through the following mechanisms.

- In addition to the above, the suggestion boxes are kept in various academic blocks to facilitate the students to express their suggestions/complaints. The suggestions/complaints received through grievance and redressal cell and from suggestion boxes are analyzed and the grievances redressed immediately for promoting better stakeholder relationship.

- The Parent's- teacher meeting provides a forum to the parents to convey their suggestion on improving the overall quality of the institution. During the management review meeting, the feedback received from the parents are discussed and considered for further improvement.

- The recruiters' feedback about the students' performance in the interview process are discussed and analyzed for further improvement in the students' performance.

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 these?

No. There are no instances of court cases filed by and against the institute.

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 Institute has a practice of collecting student's feedback on teaching-learning. The following parameters are used to analyze the performance.

- Effective Content Delivery
- Discussing University Question Papers and Solutions
- Level of Preparation of subject
- Clearing Doubts
- Extra Effort for slow learners
- Teaching with Relevant Practical Example
- Coverage of Portions and Evaluating Answer Scripts in Time and Impartially

The collected student's feedbacks are analyzed in the Management Review meeting and remedial actions are taken in case of any deviation. In addition, students are provided in various forums such as grievance and redressal cell, suggestions box and class committee meetings to express their feedback on institutional performance.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

- The Institute regularly organizes various FDP's, Seminars and Workshops for the benefit of faculty members to hone their knowledge and skill sets
- The Institute organizes various orientation and enrichment programmes for both teaching and non-teaching staff members for upgrading their skills in the latest technology.
- Moreover, the faculty members are encouraged to attend various programmes being organized in various leading institutions
- Knowledge sharing sessions by the faculty members based on the knowledge gained from conferences, seminars & FDTP are practiced.
- To bridge the gap between industry and academia, faculty and staff members are given an opportunity to interact with industry experts and learn the industrial practices thro' Industrial practical Knowledge Training programme.
- The management sponsors the faculty members for pursuing Ph.D. programmes to enhance the knowledge and skills

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?

The Institute organizes various orientation and enrichment programmes for both teaching and non-teaching staff members for upgrading their skills in the latest technology. In addition, the faculty members are encouraged to attend various programmes being organized in various leading institutions.

- Faculty members producing 100% results in the theory examinations conducted by Anna University are recognized by presenting memento and citation during Annual Day celebration of every year.
- The institute motivates the faculty members to actively perform their roles and responsibilities and the same is considered in the faculty appraisal for yearly increment and promotion.

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.

A well-defined appraisal system is in place to evaluate, analyze and improve the performances of the Faculty. Semester wise feedback is obtained from each student through a questionnaire are to evaluate classroom delivery, subject knowledge and other abilities of the staff member.

A self-appraisal form accessing teaching, contribution to research, faculty improvement, participation in extension activities, curriculum development, interaction with industry and institutions, involvement in department and college level administration are provided by the faculty themselves.

HoD of the department also gives his assessment about the faculty in the above areas. Technical support staffs, Administrative staffs and library staffs are also assessed by the students and HoDs.

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 performance appraisal system has well distinct procedure with a predefined weightage for each parameter which is self explanatory. The institute motivates the faculty members to actively perform their roles and responsibilities and the same is considered in the faculty appraisal for yearly increment and promotion. The outcome of the appraisal is communicated to the stakeholders in a transparent manner.

6.3.5   What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

The management of the Institute takes care of the welfare of all teaching and non teaching staff members through the following means:

- The management contributes an amount equal to the employee share for EPF with Pension scheme and Group insurance.
- Various allowances like conveyance allowance, professional development allowance.
- Faculty members are allowed to avail winter and summer vacation
- On duty leave is provided to faculty members for attending various conferences, workshops, seminars, FDPs and exam duties

- The management encourages the faculty members for pursuing Ph.D. program by providing adequate number of On duty leave

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

The Institute takes the following measures to attract and retain eminent faculty members:

- The Institute offers salary as per the AICTE norms
- The management contributes an amount equal to the employee share for EPF with Pension scheme, ESI and Group insurance.
- Medical leave provision is given to the faculty and staff members based on the request.
- Faculty members are allowed to avail winter and summer vacation
- On duty leave is provided to faculty members for attending various conferences, workshops, seminars, FDPs and exam duties
- The management encourages the faculty members for pursuing Ph.D. programme by providing adequate number of On duty leave
- Permitting faculty for performing professional services like member of Governing Council, board of studies, result passing board, reviewer in journals and conferences, etc., in various Institutions.
- Faculty members producing 100% results in the theory examinations conducted by Anna University are recognized by presenting memento and citation during Annual Day celebration of every year.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

Each Head of the Department prepares the annual budget for every academic year and this exercise is carried out by considering the recurring and non-recurring expenditure requirement of the department for the entire year. The HoD's submit their detailed requirement to the Principal and in turn the consolidated requirement is submitted by the Principal to the Director of the institution. After consolidation the Director submits the entire budget proposal to the Board of Management for its approval.   Therefore, the institution maintains a mechanism to monitor effective & efficient use of the available financial resources in the following manner:

Budget

- The institute carefully prepares the budget of next financial year by considering sources of earnings & expenditure.
- It allocates the funds for salary, infrastructure development, research, faculty development & other necessary recurring expenditures.

Earning

- Institute monitors the earnings by projected admission, projected possible funding from other sources & revenue.

Expenses

- Salary component, infrastructural requirements based on additional facilities as per the norms.

- Procurement of the equipment in laboratories, furniture, books and journals are also considered.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audits objections? Provide the details on compliance.

The Internal audit is carried out periodically by the accounts department of the trust office. Qualified practicing charted accountant does the external audit annually. There were no major objections in the last audit.

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.

The major sources of institutional receipts / funding are as follows:

- Tuition fee paid by the students
- Transport fee paid by the students
- Hostel fee paid by the students
- Other miscellaneous receipts

The deficit of the institute is managed from intra donation of our sister institutions, bank loans and as the patron of the Institute.

Audited income and expenditure statement of academic and administrative activities of the previous four years are enclosed.

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 processes?

Yes, the Institute is having its Internal Quality Assurance Cell and the composition of IQAC is given below:

Sl.No	NAME	INSTITUTE/INDUSTRY	DESIGNATION	POSITION
1	Dr. V. Vel Murugan	Sree Sakthi Engineering College	Principal	Chairperson
2	Dr.M.Rajendran	Sree Sakthi Engineering College	Director	Member
3	Dr.I.Shanthi	Sree Sakthi Engineering College	HOD/ECE	Member
4	Dr.G.Mahesh	Sree Sakthi Engineering College	HOD/MECH	Member
5	Dr.A.Umaamaheswari	Sree Sakthi Engineering College	HOD/EEE	Member
6	Mr.R.Asokan	Sree Sakthi Equipment company	Director	External Expert
7	Mr.V.Govindaraj	Sree Sakthi Equipment company	General Manager	External Expert
8	Dr.A.Sridevi	Sree Sakthi Engineering College	Professor	Coordinator
9	Dr.C.R.Sinduja	Sree Sakthi Engineering College	Associate Professor	Coordinator

Quality Policy of the Institution

We, at Sree Sakthi Engineering College are committed to provide quality education in Engineering. This is achieved through up gradation of facilities, faculty development, campus placement and continual improvement. Students are also

provided opportunities for industrial based practical knowledge training and extra-curricular activities. Focus is also given to conduct regular short term courses whereby both students and faculty are updated with technological developments in the field of their interest.

The Internal Quality Assurance Cell aims to achieve the quality objectives through the following activities.

- To implement ICT and interactive teaching methodologies to ensure student centric learning environment
- To conduct remedial classes to improve the performance of slow learner students
- To Collect students feedback about quality of teaching-learning process
- To provide a forum for the faculty members & students to gain knowledge on recent technological advancements through organizing guest lectures, workshops, seminars and conferences.
- To conduct periodic review of academic performance of the faculty and to monitor the students' progress in academic & co-curricular achievements.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

The IQAC of the institution plays a key role in monitoring and ensuring the learning outcomes. Following recommendations are approved by the Management for implementation.

- ICT enabled and innovative teaching practices is to be practiced
- Academic audit is to be conducted once in a semester
- Implementation of outcome based education system

- Consultancy work needs to be expedited

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes, the IQAC has Industry members as external members on its committee.

Members suggested to improve the quality in the areas of admission, Industrial training, faculty skill development, placement, etc.,

d. How do students and alumni contribute to the effective functioning of the IQAC?

Students contribute to the ISO & IQAC through class committee meetings, Tutors and semester wise feedback system. Alumni of the college interact through the Alumni Association Meetings and Placement Cell.
. Their valuable suggestionPs are considered for assuring the quality of institutional practices.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

IQAC conducts meeting regularly and discusses various points related to academic and non academic activities. The statuses of achievement for quality objectives are reviewed and the members are encouraged to offer suggestions for further improvement. The minutes of IQAC meetings are communicated to all the members of IQAC for information and necessary action.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.

Yes, the institute has Quality assurance of the academic and administrative activities under the ISO quality management system and the various academic and administrative activities covered are as follows:

- Admission
- Academic
- Examination
- Library
- Physical education
- Maintenance
- Training and placement
- Administration

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. The Institute provides the following training to the faculty and staff members. The newly inducted faculty members are given training on ISO quality procedure being followed in the institution. The internal and external experts handle the sessions for better understanding of the quality procedure.

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?

Yes. The Institution has got ISO 9001:2008 certifications by TUV Nord. As per the quality procedure both internal and external audits are conducted periodically to review the academic performance, students feedback, budget utilization, faculty members participation in FDP/seminar/workshop/conferences/etc., The audit outcomes are discussed in the Management Review Meeting and necessary remedial measures are implemented.

6.5.5 How is the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The Institution is committed to provide quality and value based technical education for the benefits of various stakeholders. The internal quality procedure of institution is in line with the external regulatory authorities like Anna University, AICTE. The IQAC of the Institute ensures the effective operation of internal activities towards the achievement of quality goals.

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 institute employs the following mechanisms to review the quality of teaching learning process:

- **Class Committee Meeting**

    As per the Anna university regulation, the Head of the Department concerned to constitutes the class committee for each class. The class committee meets thrice in a semester to discuss the progress of teaching-learning process. The students and faculty members are given an equal opportunity to express their suggestions and feedbacks during the meetings. The feedback obtained from the students and faculty members are reviewed by the Head of the Department and Principal and necessary remedial measures are taken to ensure the quality of teaching & learning process.

- **Course Committee Meeting**

    As per the Anna University regulation, course committee is constituted for each common theory course offered to more than one discipline or group and it comprises of all the teachers teaching the common course with one of them nominated as course coordinator. The course committee meeting is organized twice in a semester in order to review the progress of portions covered, performance of students, examination pattern, coaching classes for slow learners, etc.,

- **Students Feedback**

    The institute collects the online feedback from the students about the quality of teaching once in a semester. The following parameters are used to collect the feedback: effective content delivery, discussing university question papers and solutions, level of preparation in subjects, clearing doubts, extra effort for slow learners, teaching with relevant practical example, coverage of portions and evaluating answer scripts in time and impartially. The student's

feedback is reviewed by the Principal and necessary suggestions are offered to improve the quality of teaching-learning process.

- **Review meeting by HoD concerned**

    After every Internal Assessment test HoD conducts class wise meeting to review the students' performance and recommends the suitable remedial measures for better performance.

- **Review meeting by the Principal and Director**

    A periodic department wise review meeting is conducted by the Principal and the Director to review the academic progress and other activities of each department. In addition to the above, the teaching performance of the newly joined faculty members are monitored and reviewed by the HoD concerned and suggestions are given for improving the effectiveness of teaching.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

    The institution communicates its quality assurance policies to the internal and external stakeholders through college website, prospectus, calendars, brochures, alumni meets, Smart campus system, e-mails, news letter, news paper, college notice boards and display boards kept at various places in the college.

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 in covered with plants and trees.

Some of the varieties are Arica pams, Bamboo, Eachhan, Euclyptus, Jeeni press, Kaattuvelan, May flower, Mega kani, Neem, Padami, Picknomia, Ponavaran, Poovarasan, Pungan, Royal pamar, Tamarind, Yellow flower.

Our college has an Environmental Policy and hence carries out various steps to maintain the campus green, With the coordination of our college NSS team, 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 warns badly.

- The UPS Batteries are being maintained in good conditions which reduces the charging current of batteries

Use of Renewable Energy

- Solar powered water heaters provide hot water to the students in the boys and girls hostels

Solar powered water heaters

Solar powered water heaters

Rain Water Harvesting System

- The Institute has installed a rain water percolation pond on the campus
- The Institute has in place, two rain water harvesting structures in order to increase the water table, as a part of conservation and preservation of natural resource-water.

Rain Water Harvesting System

Efforts for Carbon Neutrality

- The Environmental Awareness Cell conducted an awareness programme about the importance of carbon neutrality and its impact on society Initiatives are taken to sensitize students and staff members in utilizing the common transport system in order to reduce the carbon emission
- The institute actively promotes the ideal of vehicle pooling to both staff and students.

Tree Plantation

- The Environment Awareness Cell in association with NSS conducts Tree plantation programmes not only in the premises of the institution but also at nearby schools and villages
- Students are encouraged to participate in environment related activities

through various interdepartmental competitions like recycling of waste, Junk arts etc

- The Institute regularly displays on the notice board, updates on recent issues about the Environment, Conservation of Energy and Global warming.

- Tree Plantation activities are carried out on a regular basis through various NGOs with the objective of enhancing the green cover and reducing the carbon foot print.

Hazardous Waste Management

The Institution produces only a negligible quantity of hazardous waste. Yet, efforts are on to curtail its spread.

E-Waste Management

Efforts are taken to identify the sources of e-waste in the institution through its effective e-waste management system and it has vendors to dispose the e-waste materials. The concept of reusing e-products has greatly reduced the problem of disposal.

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 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 all students is assigned to a faculty member who is his/her advisor and tutor. The advisor 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 Siemens training on automation and control 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 student's.
- 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 the 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 P.G 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. Organizing workshop, Conferences and symposiums keeps the student fraternity vibrant.

- The institute has signed MoUs 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.

Mentorship

It is reasonable to state that for a large pool of students from diverse economic, geographical and social backgrounds, problems of adjustment are inevitable. The mentor system is pro active in achieving an inclusive paradigm. The mentoring scheme at Sree Sakthi Engineering College is tri-polar effectively

covering, psycho-social, academic and career issues. A team of Professional counselors, voluntary peer mentors, faculty tutors, industry mentors and placement counselors help create a congenial atmosphere for learning.

Table 7.1 Meritorious Scholarships

S.NO	CUT OFF MARKS	SCHOLARSHIPS
1	190 & above	100 % tuition fee waiver
2	185-189.99	50 % tuition fee waiver
3	180-184.99	25% tuition fee waiver

Meritorious Scholarships

Stake holders Partnership

Learning about team culture and gregarious living is essential to the corporate world. The institution ensures the stake holders participation to the fullest. A continuous feedback system from students in terms of Tutor ward meetings, Class committee meetings and end review meetings takes care of the academic concerns. The Parents involvement is ensured through frequent visits as when required, Parents Teacher Meeting's and other updates concerning their wards.

Industry visits and value added courses give them the necessary inputs. The Alumni who visit the institution either as entrepreneurs or as resource persons evince their bonding with the institution. Thanks Giving Day, an annual feature is a grand reunion of faculty, non teaching staff and their families, along with invitees from sister institutions. Stake holders are also involved in conducting projects, so that social responsibility and mutual camaraderie is fostered.

Industry Alliance and Partnership

Partnering with industries prepares students for real time experience. Industry powered labs provide the technical acumen required to contribute to industry growth. Centres of Excellence initiate the necessary training to both faculty and students to achieve the dynamics and practices of the industry. IIPC oversees the execution of the above, through internships, inplant training programs industrial projects, consultancy, competency development and entrepreneurship skill development

International Professional Societies and Student Chapters

Professional societies and chapters help establish skills and extend numerous benefits like resource sharing, networking opportunities, mentorship to attend conferences, seminars, webinars, video conference, chapter meetings to stay in tune

with industry needs. To capitalize on these opportunities, students associations and various programs organized, enrich students with the concepts and the strategies to pursue industry openings.

Allied Institutions Support

To be part of a vibrant conglomerate is a special privilege enjoyed by the institution. Be it conferences, workshops academic support, medical support, on call counselors, the benefits accrued by the stakeholders are numerous. Resource sharing, in terms of faculty expertise and infrastructure among the sister institutions are invaluable.

7.3 BEST PRACTICES

7.3.1 Elaborate on any two best practices as per the annexed format which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college

BEST PRACTICE – I

1. Title of the Practice

Industrial Alliances and Partnerships through Industry Institute Partnership Cell (IIPC) and Centers of Excellence

2. Goal

The objectives in establishing the cell (IIPC) is to strengthen industry institution interaction so as to enable free consultation, technology up gradation, to

orient staff and students to industry practices, trends, culture, with required skills and to assist in undertaking industry projects.

3. 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 of the students are having attitude problems like negative thinking, lethargic towards working etc.

Industrial Projects

Students take up industrial projects for a semester during their final year of study. IIPC, with the support of the MoU partners and advisory board members, assist students in taking up projects in reputed industries in and out of the state

.

Inplant Training (Summer &Winter) Programmes

Inplant Training (Summer & Winter) is organized by IIPC for the benefit of engineering students. Over 300 students comprising all branches of engineering streams are benefitted by the training.

Table 7.2: Implant Training, Internships and Factory Visits

Dept	Name of the industries	Date	No. Of students
CIVIL	SL Builder, Tirpur,Tamil Nadu.	05.06.13 to 19.06.13	6
CIVIL	SL Builder, Tirpur,Tamil Nadu.	05.06.13 to 19.06.13	6
CIVIL	Rajparis Civil Construction, Chennai,Tamil Nadu.	05.06.13 to 19.06.13	8
CIVIL	Senthil Pile Foundation,Trichy,Tamil Nadu.	05.06.13 to 19.06.13	5
CIVIL	RVA Architecture, 450adurai-14,Tamil Nadu.	05.06.13 to 19.06.13	6
CIVIL	Samraj Construction, Coimbatore,Tamil nadu.	03.12.14 to 15.12.14	8
CIVIL	R.K.Construction & Co,Bhiwadi.	08.12.2014 to 22.12.2014	1
CIVIL	V O Chidumbaranar Port trust Thoothukudi,Tamil Nadu.	13.12.2014 to 18.12.2014	6
CIVIL	SSAAR Construction, Kulithalai, Karur, Tamil Nadu.	13.06.2015 to 23.06.2015	1
ECE	Pantech Solution, Coimbatore, Tamil Nadu.	11.06.20 12 to 16.06.2012	2
ECE	Bharat Sanchar Nigam Limited, Coonoor-101.	11.06.2012 to 16.06.2012	2
ECE	Salzer Electronics, Coimbatore-47, Tamil Nadu.	21.06.2012 to 23.06.2012	2

ECE	Software Tech Solution Private Limited, Coimbatore-14.	16.03.2015	1
ECE	Salzer Electronics, Coimbatore-47, Tamil Nadu.	21.05.2015 to 23.05.2015	3
ECE	Salzer Electronics, Coimbatore-47, Tamil Nadu.	27.05.15 to 01.06.15	4
ECE	Salzer Electronics, Coimbatore-47, Tamil Nadu.	21.05.2015 to 26.05.2015	6
ECE	Bharat Sanchar Nigam Limited, Race Course, Coimbatore.	31.08.2015	4
CSE	Jiffy Technologies, Race Course, Coimbatore-18. Tamil Nadu.	11.06.2012 to 15.06.2012	27
CIVIL	Thirumoorthy Dam, Udumalaipettai, Tmail Nadu	27.07.2016	53
CIVIL	Amaravathi Dam, Udumalaipettai, Tmail Nadu	27.07.2016	53
CIVIL	Caprica building construction, Bangalore	18.08.2016 to 21.08.2016	48
CIVIL	Mrfixit Experience Center, Kochi Kerala	08.10.2016	48
CSE	DRDL Kanchanhagh, Hyderabad-500058	23.09.2016	21
CSE	White hat academy, Coimbatore	23.07.2016	41
CSE	Xplore IT Crop , Coimbatore	13.08.2016	70
ECE	GD Museum- Coimbatore	12.03.2016	115
ECE	ISRO	21.09.2016	40

ECE	Electrical System, Wonderla Bangalore	11.08.2016	42
EEE	Salzer Electronics Limited	26.09.2015	30
EEE	GD Electricals	26.09.2015	25
EEE	GD Museum- Coimbatore	23.07.2016	85
MECH	Sea Bule Shipyard Ltd- Kochi-682010	23.08.2016 24.08.2016	100
MECH	HMT Mechine Tool Ltd, Bangalore	23.08.2016 24.08.2016	80
MECH	Sea Bule Shipyard Ltd- Kochi-682010, Anna Aluminum Ltd, Ernakulam,Kerala	06.10.2016 09.10.2016	90

Internship and Projects			
ECE	Airports Authority of India, Coimbatore	20.12.2016 to 31.03.2017	5
ECE	Airports Authority of India, Coimbatore	12.12.2016 to 16.12.2016	8
ECE	BSNL, Coimbatore, Circle	05.12.2016 to 09.12.2016	3
ECE	Alpha Associates, kalapatti,Coimbatore	03.01.2017 to 31.03.2017	3

ECE	Code bind Technology, Coimbatore	18.12.2016 to 22.12.2016	3
ECE	Taxstar,Ganapathy , Coimbatore	02.12.2016 to 08.12.2016	4
ECE	ByVal Technologies India Private Limited	03.12.2016. to 10.12.2016	5
ECE	Tresition Equipment Pvt.Ltd, Chennai	19.12.2016. to 23.12.2016	1
CSE	Alpha Associates, kalapatti,Coimbatore	03.01.2017 to 31.03.2017	2
CSE	SIERRA ODC Private Limited, Annamalai Industrial Estate, Kalapatti, Coimbatore, Tamil Nadu 641048	6 Months	3
CSE	Infant Global Solution, Tirchy Road, Coimbatore	3 Months	14
EEE	Alpha Associates, kalapatti,Coimbatore	03.01.2017 to 31.03.2017	3
MECH	Orchid Chemicals Pharmaceuticals Ltd,Chengalpat,TN	12.05.2014 to 16.05.2014	1
MECH	Coimbatore Super Alloys Pvt Ltd , Annur, Coimbatore	21.04.2014 to	1

		30.04.2014	
MECH	Siruvani Roofings india Private Ltd	14.12.2015 to 19.12.2015	1
MECH	Senthil Papers and Boards Private Limited, Avinashi Road, Coimbatore	08.06.2015 to 10.06.2015	1
MECH	TVS Srichakar Limited, TVs Buliding,&B, west veli street, Madurai	13.06.2016 to 17.06.2016	1
MECH	TWG Group , Coimbatore	22.03.2016	100
MECH	Vetri Engineering, Peelamedu,Coimbatore	13.06.2016 to 20.06.2016	2
MECH	Johan Deere, Ponnakudi, Tirunelveli	23.06.2016 to 09.07.2016	1

The following Centres of Excellence are established in association with various reputed organizations and research labs with the intention of providing opportunities for all at Sree Sakthi Engineering College so as to obtain individualized and intellectual training that enhances the teaching effectiveness and student learning.

Centre's of Excellence

- **National Instruments LabVIEW Academy**

   The Centres of Excellence provides training to the students in the areas of Embedded System, Networking, CAD, Training, Database Management Systems, Micro Controller, Digital Signal Processors, LABVIEW, PLC, VLSI, CNC Programming, .NET, Cloud.

- **PLC/SCADA Research Laboratory**

   To develop and refine rigorous and interactive laboratory experience for our EEE/ECE students that allows for the engagement in various fields of engineering research through carefully designed and assessed project-based experimental studies

Functions of the IIPC and Centers of Excellence

   The IIPC and the Centres of Excellence have been formed not only to create close links between Industry and Institute by conducting interaction programs to prepare students for placement but also to enhance their application skills related to various engineering and management theories.

Activities

- Expert talks to enable students to imbibe the current industrial practices
- Internship and factory visits
- Technical Festivals / Exhibition / Student Competitions
- Competency Development / Personality Development Programmes
- Consultancy/ Research work to be done by the Students
- under supervision of experts from Industry

- Industrial Projects

- Inplant Training (Summer & Winter)

- Seminars

- Conducting Technical Quiz Programme

- HR Summits

- Guidance to students to attend various project competitions

4. 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 with15-20 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.

5. 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.

ECE Students at ISRO, Kochi on 26.th October 2016

ECE Students attended Line Follower Robot Competition at BIT, Coimbatore, 2016

ECE Students attended Line Follower Robot Competition at CIT, Coimbatore, 2015

ECE Students at Kerala Electrical and Allied Engineering Co.Ltd, Mamala Unit,

Kochi. 2015

ECE Students attended Implant Training at All India Radio, Ooty, 2014

EEE Students at GD Electricals on 26th July 2016, Coimbatore

MECH Students at Anna Aluminum Ltd, Ernakulam,Kerala
on 6th November 2016

CIVIL Students at Mrfixit Experience Center, Kochi Kerala on 8th November 2016.

6. 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.

7. Contact Details

Name of the Principal   : Dr.V.Vel Murugan
Name of the Institution   : Sree Sakthi Engineering College
City   : Coimbatore
Pin Code   : 641 104
Work Phone   : 04254 – 295000, 295020
Fax   : 04254 – 272495
Website   : www.sreesakthi.edu.in
E-mail   : info@sreesakthi.edu.in
Mobile   : 9244502277

BEST PRACTICE – II

1. Title of the Practice

INSTITUTIONAL AUTOMATION SYSTEM (SSEC)

2. 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

3. The Context

Our Institution is having around 200 teaching and non-teaching staff members and about 1000 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.

4. 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 system is

Students Management System

- **Student's personal data**

The students profile such as Name, Name of the parents, Date of birth, Address, Photo etc., will be added during the admission are available in SSEC ROVANIMS.

SREE SAKTHI ENGINEERING COLLEGE

899/1 & 898/2 Bettathapuram, Karamadai, Coimbatore - 641104

Ph : 04254-272165 Fax : 91-4254-272495

E-mail : principal@sreesakthi.edu.in

STUDENT PROFILE

1. Name   : ABISHEK H S
2. Major   :
3. Roll No.   : 12EC001
4. University Reg.No.   : 713612106001
5. Gender   : MALE
6. Date of Birth   : 04-02-1995
7. Mother Tongue   : BADAGA
8. Languages Known   :
9. Religion / Nationality   : HINDU / INDIAN   Community : BC
10. Category   : GQ   Caste   : BADAGAR
11. Blood Group   : A1+
12. Height / Weight   : /
13. Status of Health   :
14. Specify health problem if any   :
15. Two Wheeler Licence No.   :
16. Details about the blood donation :

17. Family

	Father	Mother	Guardian
Name	: SEKAR H P	RADHA A	
Occupation	:	HOUSE WIFE	
Monthly Income	: 30000-40000		
Contact No.	: 9751638413		

18. Academic Profile :

Name of the Institution	Class/Course	Group/Major	Marks	Class/Grade	Rank
KURINJI MHSS	HSC	T	1008		
CSI (CMM) HSS	SSLC	T	441		

SREE SAKTHI ENGINEERING COLLEGE
899/1 & 898/2 Bettathapuram, Karamadai, Coimbatore - 641104

ROVAN™

Welcome PURUSOTH | 2015-2016 |

ADMISSION   STUDENT   FEES   ATTENDANCE   EXAM

| Mark Entry |
| Absentees |
| Malpractice |
| Internal Assesment |
| Result Processing |
| Schedule |
| Exam |
| Elective Subject |
| Attendance Marks |
| Reports |
| Exam Schedule |
| External Mark Register |
| Internal Mark Register |
| Internal Assesment Mark |
| Subject Wise Mark List |
| Class Wise Rank List |
| Absentees List |
| Result Analysis |

MARK ENTRY

*Batch	2012-2016	*Exam	INTERNAL ASSESSMENT I
*Course	B.E.(ECE)	*Subject	ANTENNA & WAVE PROPAGATION(
*Section	A	*Entered By	PURUSHOTHAMAN A
*Semester	SIXTH SEMESTER	*Entered Date	09-06-2015

S.No.	Roll No.	Reg. No.	Student	Marks Obtained	Status
1	12EC001	713612106001	ABISHEK H S	70	Present
2	12EC002	713612106002	ANAND N	50	Present
3	12EC003	713612106003	ANNAL SAROJA A	71	Present
4	12EC004	713612106004	BAGYA LAKSHMI A	93	Present
5	12EC005	713612106005	CLARA SHINY B	83	Present
6	12EC006	713612106006	DARLIN ASHA R R	91	Present
7	12EC007	713612106007	DEEPIKA P	70	Present
8	12EC008	713612106008	DIVYA M	87	Present
9	12EC009	713612106009	GAYATHRI S	70	Present
10	12EC010	713612106010	GAYATHRI Y	70	Present
11	12EC011	713612106011	GOMATHI R	88	Present
12	12EC012	713612106012	GOWRI VINOLYA R	50	Present
13	12EC013	713612106013	GOWTHAM M	50	Present

Staff Management System

Staff's personal profile Staff Management System

- **Staff's personal profile**

    The staff's profile such as Name, Designation, photo qualification, Date of birth, Address, etc., will be added during joining.

- **Staff work load details**

  The academic workload/time table of all the staff members is available.

- **Staffs leave particulars**
  - Daily attendance of staff can be entered
  - Staff can entered their Timesheet – hour Wise topics (Class room delivery and syllabus completion details)

This system can be accessed by the concerned staff member, Department Head, Dean 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

- Students assessment test mark
- Subject wise assessment 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

5. 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 Institutional Automation System.
- Awards won by students with faculty advisor has increased.
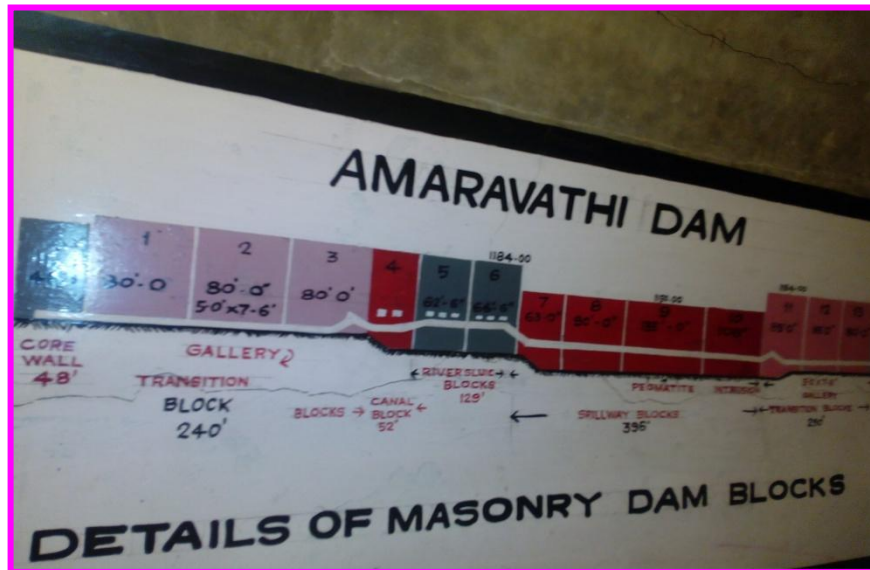
Civil Students at Amaravathi Dam, Udumalaipettai, Coimbatore.

EEE Students at S&S Salzer Electronics Limited, Karamadai,Coimbatore.

ECE Students at Ace Components Pvt.Ltd,Mysore

ECE Students at Airports Authority of India, Coimbatore, 2016

Mech Students at **Sree Sakthi Equipment Company Ltd, Coimbatore**

6. 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 configuration.

- 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 5.0 db is provided to accommodate the big data.

- A separate software development team staff members are working for the related activit

7. Contact Details

Name of the Principal	:	Dr.V.Vel Murugan
Name of the Institution	:	Sree Sakthi Engineering College
City	:	Coimbatore
Pin Code	:	641 104
Work Phone	:	04254 – 295000, 295020
Fax	:	04254 – 272495
Website	:	www.sreesakthi.edu.in
E-mail	:	principal@sreesakthi.edu.in
Mobile	:	9244502277

EVALUATIVE REPORT OF THE
DEPARTMENT OF CIVIL ENGINEERING

1. **Name of the department** : Civil Engineering
2. **Year of Establishment** : 2010
3. **Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

Programme Offered	Nature of Course	Specialization
UG	BE	Civil Engineering

4. **Names of Interdisciplinary courses and the departments/units involved**

Departments Involved	Semester	Interdisciplinary Courses
Science & Humanities	I	HS6151 Technical English–I MA6151 Mathematics–I PH6151 Engineering Physics–I CY6151 Engineering Chemistry–I GE6163 Physics and Chemistry Laboratory-I
	II	HS6251 Technical English–II MA6251 Mathematic–II PH6251 Engineering Physics–II CY6251 Engineering Chemistry–II GE6262 Physics and Chemistry Laboratory–II

Science & Humanities	III	MA6351 Transforms and Partial Differential Equations GE6351 Environmental Science and Engineering
	IV	MA6459 Numerical Methods
	V	GE6563 Communication Skills Laboratory Based
Mechanical Engineering	I	GE6152 Engineering Graphics GE6162 Engineering Practices Laboratory
	II	GE6253 Engineering Mechanics GE6261 Computer Aided Drafting and Modeling Laboratory
Electrical and Electronics Engineering	I	GE6162 Engineering Practices Laboratory
Computer Science and Engineering	I	GE6151 Computer Programming GE6161Computer Practices Laboratory

5. Annual/ semester/choice based credit system (programme wise):

Semester based credit system is followed as per Anna University, Chennai norms for UG Programme

6. Participation of the department in the courses offered by other departments:

Details of the participation of the department in the other departments courses

Sl.No	Course Name	Department to which the courses handled
SEMESTER I		
1	Basic Civil and Mechanical Engineering	Electrical & Electronics Engineering

7. Courses in collaboration with other Universities, industries, foreign institutions:

Department has signed MoUs with industries and university to enrich students knowledge to fulfill the industrial need.

Details of MoUs with industries & University

S. No	Name of the Industry / University	Scope of MOU
1	CADD Centre, Coimbatore	CADD centre provides training related to value added course for the students to support placement.
2	A+ CADD Technologies	To improve fundamental knowledge and concept of the latest software. Provides hands-on training to students.
3	A+ CADD Technologies	To enhance fundamental knowledge and concept behind some of the latest software.

4	V.Meenal Engineering contractors	To expose the students for industrial visit, In-plant training and internship programme.
5	Sharvas construction india pvt ltd	To train the engineering students and graduates in their work sites.
6	Vetri constructions	To facilitate the students for seminars, guest lectures and industrial visit.

Detail of collaboration with other industries

Details of Collaborative Activities	Collaborative Organization.(Institution / Corporate)
Placement Training	Key mind learning India pvt. ltd
	GLOBAL
	Six phrase
Workshop	Council of Indian Scientific Research
Value Added Course	CADD Centre, Coimbatore
	A+ CADD Technologies
Inplant training	AM INFRA BUILD, Bangalore
	SUKRITHA BUILD MANN Pvt Ltd , Bangalore
	PS Constructions, Theni
	Panchayat Union, Udhagai

	BR GOLD Chamber Bricks, Coimbatore
	Prakash construction, Theni
	Annai Construction, Thoothukudi
	LIMRA Construction,Mettupalayam
	Linga Construction, Dharmapuri
	Aditya Construction, Chennai
	Divine construction, Virudhunagar
	Manchester Properties, Coimbatore
Industrial visit	Dr.fixit experience centre
	Caprico constructions
	Tamilnadu water board
	Mantri Developers Pvt ltd
	Vijiyashankar Constructions pvt ltd
	NA Constructions
	M.A Constructions
	Venkateswara Blue metals & Quary
	Govaan Steet pvt Ltd

	Technomax Ready Mix Concrete Plant
	U.R.C Constructions (Bridge Project
	Kerala water Authority(Water Treatment Plant
	Kerala Engineering Research Insititute
	Neyveli Lignite Corporation Limited

8. Details of courses / Programmes discontinued (if any) with reasons:

NIL

9. Number of teaching posts.

	Sanctioned	Filled
Professors	1	0
Associate Professors	2	0
Asst. Professors	9	12

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. / M. Phil. etc.):

Name	Qualification	Designation	Specialization	No of years Experience
Ms.G.Shyamala	ME., (Ph.D.,) (Pursuing)	Assistant Professor	Environmental Engineering	11.7
Mr.AN.Swaminathen	ME., (Ph.D.,) (Pursuing)	Assistant Professor	Structural Engineering	22.6
Mr.N.Saravana Kumar	ME.,	Assistant Professor	Construction Engineering & Management	5.6
Mr. Karthikeyan N	ME	Assistant Professor	Structural Engineering	4.5
Mr.J.Suresh Kumar	ME.,	Assistant Professor	Construction Engineering & Management	2.9
Ms.M.Ramya	ME.,	Assistant Professor	Construction Engineering & Management	0.1
Mr.Rajakumar C	ME., (Ph.D.,) (Pursuing)	Assistant Professor	Geotechnical Engineeing	7.5
Mr.Prakash	ME.,	Assistant Professor	Geotechnical Engineeing	3.5

Mr.M.Saravanan	ME.,	Assistant Professor	Environmental Engineering	0.6
Mr.Parthasarathi P	ME.,	Assistant Professor	Construction Engineering & Management	2.6
Mr.Mathankumar S	ME.,	Assistant Professor	Structural Engineering	0.6

11. List of senior visiting faculty:

S.No	Name of the faculty	Organization
1	Mr. P. Karthikeyan	Adigrad University, Ethiopia

12. Percentage of lectures delivered and practical classes handled (programme Wise) by temporary faculty   :

As we have sufficient number of faculty members to handle the lectures and practical classes with sufficient experience, we did not require any temporary faculties.

13. Student -Teacher Ratio (Program wise)

UG: B.E in Civil Engineering - 15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Number of Academic support staff : 2

Details of the Academic support staff

S.No	Name of the Academic support staff	Designation
1	Mr. Boopathivasan	Lab Technician
2	Mr. Gowtham	Lab Technician

15. Qualifications of teaching faculty with D. Sc / D.Lit / Ph. D/ M. Phil./ PG:

S.No	Qualification	No of Faculty
1	Ph.D	Nil
2	Pursuing Ph.D	03
3	PG	09

16. Number of faculty with ongoing projects from a) National b) International and grants received:

Ongoing projects from National & International funding agencies: 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. Publication:

Details of Faculty Publications in Journal/Conferences

SL. NO	Author	journals		Conference		Total no of publications
		National	International	National	International	
1	Ms.G.Shyamala	2	14	7	1	24
2	Mr.A.N. Swaminathen	-	2	1	-	3
3	Mr.N. Saravanakumar	-	2	1	1	4
4	Mr. C. Rajakumar	-	6	-	6	12

Total no of students Publications in Conferences: 45

20. Areas of consultancy and income generated:*

S. No	Details of consultancy	Beneficiary	Period	Income Generated
1	Testing of Concrete Cubes	KKK Construction	March 2015 to April 2015	Rs.300
2	Testing of Bricks	SK Associates	July 2015	Rs.300

3	Testing of Concrete Cubes	Swami Associates	July 2015	Rs.300
4	Testing of Concrete Cubes	National highway, Udhagamandalam	Aug 2016	Rs.1500
5	Testing of Concrete Cubes	National highway, Udhagamandalam	Aug 2016	Rs.1500
6	Paver block	National highway, Udumalpet	Oct 2016	Rs.600
7	Testing of Concrete Cubes	National highway, Coimbatore	Oct 2016	Rs.1000
8	SPT test and design	Municipality, Udumalpet	Jan 2017	Rs.30,000
9	Soil test and design	Municipality, Udumalpet	Jan 2017	Rs.69,000

21. Faculty as members in a) National Committees b) International Committees C) Editorial boards:

S.No	Faculty Name	Name of the Committee	Membership ID
1	Ms.G.Shyamala	Indian Society for Technical Education (ISTE)	LM69448
		Indian Society for Research and Development (ISRD)	M4150901795
2	Mr.AN.Swaminathen	Indian Society for Technical Education (ISTE)	LM26974
		Indian Society for Research and Development (ISRD)	M4150901794
3	Mr.N.Saravana Kumar	Indian Society for Technical Education (ISTE)	LM114800
		Indian Society for Research and Development (ISRD)	M4150901796
4	Mr. Karthikeyan N	Indian Society for Technical Education (ISTE)	LM114801
		Indian Society for Research and Development (ISRD)	M4150901793
5	Mr.Rajakumar C	International Glaciological Society (IGS)	LM3557
		Indian Concrete Institute (ICI)	LM11565
6	Mr.M.Saravanan	Indian Society for Technical Education (ISTE)	LM114802
7	Mr.Mathankumar S	Indian Society for Technical Education (ISTE)	LM114803

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme:

S.No	Academic Year	Percentage
1	2010-2014(UG)	100%
2	2011-2015(UG)	100 %
3	2012-2016(UG)	100%
4	2013-2017(UG)	100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:

Nil

23. Awards/ Recognitions received by faculty and students

Faculty Academic awards:

S.No	Faculty name	Award/ Recognition
1	Ms. G.Shyamala	Awarded for high percentage result in university examination.
2.	Mr.N.Saravanakumar	Awarded for high percentage result in university examination.
3.	Mr.A.N Swaminathen	Awarded for high percentage result in university examination.

Student Academic awards:

S.No	Student name	Award/ Recognition
1	Mr. Merlin	Received award for 31st rank in Anna university examination.
2	Sabarishan s	Received award for securing class topper VII semester with CGPA 8.00.
3	Brindha P	Received award for securing class topper VII semester with CGPA 7.90.
4	Krishoth kumar V	Received award for securing class topper VII semester with CGPA 7.50.
5	Partheeswaran R	Received award for securing class topper V semester with CGPA 8.20.
6	Siranjeevi M	Received award for securing class topper V semester with CGPA 8.00.
7	Kumaradhasan K	Received award for securing class topper V semester with CGPA 7.50.
8	Harsha V S	Received award for securing class topper III semester with CGPA 7.64.
9	Sarathi T	Received award for securing class topper III semester with CGPA 6.95.
10	Mercy mahima H	Received award for securing class topper III semester with CGPA 6.90.

Students sports achievements:

Name of Event	Date	Name of The student	National/ Zonal/	Host College	Achievement/ Prize
CRICKET	21-08-14 to 25-08-14	V. ARAVINTH KUMAR	Zonal	SSEC, CBE	III
		P. TAMILARASAN			
		M. SELVAM			
FOOTBALL	03-09-14 to 05-09-14	C.ANURAJ	Zonal	GCT, CBE	III
		R. MATHIYALAGAN			
		R.ARAVINDAN			
		V. ASHOK KUMAR			
		M. RADHAKRISHNAN			
		C.THANGAMANI			
		R. PIRUTHIVI			
HOCKEY	30-09-15 to 01-10-15	M. ARUN KUMAR	Zonal	KCT, CBE	III
		S. ALEXPANDIYAN			
		R. DHANARAJ			
KABADDI	29-09-16 to 30-09-16	K. DINESH	Zonal	SASURIE ENGG	II
		T. SARAVANABHARATHI			
		M. MURALIDHARAN			
		VIDHYAPATHI			
		T. RAMKUMAR			

		NARESH KUMAR			
		M. SAKTHIVEL			
		M. AJITHKUMAR			
HOCKEY	01-10-16 to 02-10-16	S. KARTHICK	Zonal	SSEC, CBE	III
		R. DHANARAJ			
		B. AJITH KUMAR			
		K. VIVEK			
		M. NISHANTH			

24. List of eminent academicians and scientists/ visitors to the department

- Dr. Kaniraj Shenbaga**.,** Professor, Universiti Malaysia Sarawak, Malaysia 2011-2015
- Dr.S.Neelamani, senior research scientist, kwait institute of scientific research, kwait.
- Ms.Revathi, Senior Manager-Tender, ECCL-Ltd, Chennai
- Dr.R.Manisekar, Senior Scientist, CSIR -Structural Engineering Research Centre
- G.Mounasami B.E.,M.I.E.,Samraj Associates
- J.Prabhu.M.E,President Of Coimbatore Civil Engineering Association
- Dr.S.Ananda Kumar, Professor, Kongu Engineering College, Perundurai,Erode
- Er.G.Ganesh,Coimbatore Civil Engineers Association
- Er.S.Ramasamy,Coimbatore Civil Engineers Association
- Mr.M.Saravana kumar,Assistant professor, Sri Venkateshwara Hi-Tech Engineering College

- Mr.R.Selvaraj,Associate Professor, Government Arts College Psychology Department, Coimbatore
- Dr.K.Divakar,Associate Professor, Coimbatore Institute Of Tech, Coimbatore
- Dr.Ashwin Siddharth,Assistant Professor, Anna University-Coimbatore
- Dr.J.Jeyanthi,Associate professor , GCT, Coimbatore
- Dr.K.P.Sudheer, IIT, Chennai, Associate professor and head, IIT ,Madras
- Dr.K.Elangovan, PSG Tech, Coimbatore, Associate professor , PSG , Coimbatore

25. Seminars/ Conferences/Workshops organized & the source of funding

Date	Title of the program organized (Workshop / Guest Lecture/ Conference / Seminar, FDP etc.)	Name and address of the expert	Sponsoring Agency/ Self-Supporting
06/08/2014	One day workshop on industrial expectation and Sustainable Development	Dr.S.Neelamani, Senior research scientist, kwait. Dr.G.Prince Arulraj, Dean, SNS College of Technology, Coimbatore.	Self Supporting
13/8/2014	Advantages of structural analysis.	Mr.M.Saravana kumar Assistant professor, Sri Venkateshwara Hi-Tech Engineering College.	Self Supporting
20/8/2014	Youth Stress Management.	Mr.R.Selvaraj,Asso Professor, Government Arts College Psychology Department, Coimbatore.	Self Supporting

24/01/2015	National Level Workshop on Advanced Construction Technique in Civil Engineering Projects	Dr. K. DevaKer, Assosiate Profeesor in Civil Engineering,CIT, Coimbatore. & Dr.S. Aanandha Kumar, Professor in Kongu Engineering College, Erode.	Self Supporting
07/03/2015	National conference on innovative technologies and development in civil engineering	Dr. R Manisekar Senior Scientist, CSIR, Chennai.	Self Supporting
18/3/2015	Guest Lecture On Waste Water Management.	Dr.Ashwin Siddharth Assistant Professor, Anna University-Coimbatore.	Self Supporting
16/03/2016	National Level Workshop on Modern Construction Material and Methods.	Dr. P. Moorthy, Principal, Kathir College of Engineering, Coimbatore.	Self Supporting
03/08/2016	Civil Engineering Orientataion Program on Advanced Construction Technique in Civil Engineering Projects.	Ms.Revathi, Senior Manager - Tender, ECCL-Ltd, Chennai.	Self Supporting
30/08/2016	Guest Lecture on Introduction of Geo-Spatial Technologies and its Applications.	Dr. D. Yuvaraj, Department of Geography, Government Arts College, Coimbatore.	Self Supporting

10/09/2016	Guest Lecture on Stability of Wharves and Jetties in Soft Riverine Deposists.	Kaniraj Senbaga M.Tech, IIT, Delhi.	Self Supporting
03.03.2017	Seminar on sustainable water management: challenges in hydrological modeling	Dr.K.P. Sudheer Ph.d, Professor, IIT chennai,	Self Supporting

Seminar On new trends follows in adsorption using nano particles

Guest Lecture on Stability of Wharves and Jetties in Soft Riverine Deposists

Workshop on industrial expectation and Sustainable Development

Seminar on Youth Stress Management

26. Student profile programme /course wise:

Name of the Course/ programme	Batch	Intake	Applications Received	Selected	Enrolled		Pass percentage
					M	F	
BE /CIVIL	2015-2019	60+12	#	60	52	8	29.54%
	2014-2018	60+12		60	53	7	37.75
	2013-2017	60+12		53	42	11	50.00
	2012-2016	60+12		61	56	5	33.87

	2011-2015	60+12		53	46	7	74.00
	2010-2014	60+12		66	60	6	87.69

\# Applications are received and processed by Anna University and seats are filled through Single Window Counselling and Consortium

27. Diversity of Students

Name of the Course	Batch	Total Strength	% Of Students From the Same state	% Of students From other States (Pondicherry, Kerala, Andra Pradesh)
BE /CIVIL	2015-2019	60	93.3%	6.67%
	2014-2018	60	98.3%	1.67%
	2013-2017	53	92.5%	7.5%
	2012-2016	61	90%	9.8%
	2011-2015	53	88.68%	11.3%
	2010-2014	66	89%	10.6%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc?

Our students are appearing for GATE, TANCET, UPSC, TNPSC exams during the final year.

Year	No. of students applied for GATE Exam	No. of students Applied for TANCET	No. of students admitted for higher studies / Job Placement through GATE/TANCET / Other Exams
2013-2014	7	1	1
2014-2015	3	2	1
2015-2016	2	2	2
2016-2017	8	NA	1

29. Student progression

Student progression	Against % enrolled		
	2013-2014	2014-2015	2015-2016
UG to PG	1.5	1.85	1.5
Employed through Campus Selection	89.4	37.03	11.48
Employed Other than Campus Recruitment	NIL	61.12	87.02
Entrepreneurship / Self-employment	9.1	Nil	Nil

30. Details of Infrastructural facilities Internet facilities for staff & students

a) Library:

Central Library – Civil Engineering	
Titles	380
Volumes	1617
National Journals	6
International Journals	6
E-Journal	1-161
Department Library	
Titles	65
Volumes	212
International Journals	1

b) Internet facilities for Staff & Students

A separate internet center is functioning in the College for the benefit of students and faculty. Wired internet and Wi-Fi facility is available in the college for the benefit of faculty and students.

S .No	Description	Number of rooms
1	Computer	32
2	Computer with internet facilities	32
3	Printers	2

c) Class rooms with ICT facility.

S .No	Description	Number of rooms
1	Class room with board	3
2	Class room with projector	2
3	Class room with ICT facilities	2

d) Laboratories

- The Department of Civil Engineering has well equipped
Laboratories such as,

S.No.	Lab Name	Major Equipment Names	Amount (Rs)
1	Concrete and Highway Laboratory	Los Angeles Abrasion Testing Machine	Rs.10,42,000
		Flexural strength tester	
		Compression testing machine(2000KN)	
		Bulk density measures	
		Ring and ball apparatus	
		Ductility testing machine	
		Standard Tar viscometer	
		Universal penetrometer	
		Concrete mixer	
		Blain Air permeability apparatus	
		Longitudinal compress meter	
		Aggregate impact tester	
		Aggregate crushing value	

		apparatus	
		Flow table	
		Needle vibrator	
		Vibrating table	
		Vee-bee consist meter	
		Compaction factor apparatus	
		Slump test apparatus	
2	Environmental Engineering Laboratory	P^H meter – deep vision deluxe p^H meter	
		Turbidity meter digital	
		Conductivity meter- digital	
		BOD incubator	
		Muffle furnace	
		Magnetic stirrer with hot plate	
		Water bath	
		COD apparatus	
		Calorimeter digital	Rs.7,80,858

		Chorine comparator (loviband)	
		Electrical hot plate	
		Jar test apparatus	
		Distillation apparatus	
		COD apparatus – write model	
3	Soil Mechanics Laboratory	Hydrometer	Rs.7,79,710
		Pyconometer	
		Liquid limit device with counter	
		Plastic limit apparatus	
		Shrinkage limit apparatus	
		Soil permeability with accessories	
		Hot air oven	
		Triaxial shear apparatus	
		Core cutter with dolly and rammer	
		Electronic weighing balance 1kg	
		Electronic weighing balance 10kg	

4.	Hydraulic Engineering Laboratory	Venturimeter, orificemeter and rotometer	Rs. 11,62,172
		Major and minor losses in pipes	
		Constant speed centrifugal pump	
		Submersible pump test rig	
		Reciprocating pump test rig	
		Gear pump test rig	
		Pelton wheel turbine test rig	
		Francis turbine test rig	
		Kaplan turbine test rig	
		Pitot tube apparatus	
		Metacentric height	
		Mini hydraulic flume	
		Orifices meter and mouthpieces	
		Apparatus for determining C_d of notches	
		Bernoullis theorem apparatus	
		Impact of jet on vanes	

5.	Survey Engineering Laboratory	Total station with tripod, mini prism, manual CD	Rs.8,33,882
		Vernier theodolite with tripod	
		Dumpy level with accessories and tripod	
		Plain table with tripod	
		Levelling staff 5 mt	
		Hand held GPS	
6.	Strength of Material Laboratory	Universial testing machine	Rs. 8,16,515
		Torsion testing machine	
		Impact testing machine	
		Spring testing machine	
		Hardness testing machine	
7.	Computer Laboratory	Auto CADD	Rs.4,75,000
		Stadd Pro.	
		i3 processer Computer	

Surveying Lab

Fluid Mechanics Lab

Soil Mechanics Lab

Environmental Engineering Lab

Concrete and Highway Lab

Strength of Material Lab

31. Number of students receiving financial assistance from college, University, government or other agencies:

Scholarship Details	Number of students			
	2016-17	**2015-16**	**2014-15**	**2013-14**
Government Agencies	37	43	44	36
Management Merit Scholarship	11	16	23	3

32. Details on student enrichment programmes (special lectures /workshops / seminar) with external experts:

Title of the program	Details of Eminent Resource Person
Value added course on Auto CADD	Mr.Lawrence, A+ CADD Centre, Coimbatore
Value added course on Revit	Mr.Sivakumar CADD Centre, Coimbatore

Value added course on Stadd Pro	Mr.Lawrence, A+ CADD Centre, Coimbatore
Value added course on MS Project	Mr.Lawrence, A+ CADD Centre, Coimbatore
Value added course on Primavera	Mr.Lawrence, A+ CADD Centre, Coimbatore
National Level Workshop on Advanced Construction Technique in Civil Engineering Projects	Dr. K. DevaKer, Assosiate Profeesor in Civil Engineering,CIT, Coimbatore. & Dr.S. Aanandha Kumar, Professor in Kongu Engineering College, Erode.
National conference on innovative technologies and development in civil engineering	Dr. R Manisekar Senior Scientist, CSIR, Chennai.
Guest Lecture On Waste Water Management.	Dr.Ashwin Siddharth Assistant Professor, Anna University- Coimbatore.
National Level Workshop on Modern Construction Material and Methods.	Dr. P. Moorthy, Principal, Kathir College of Engineering, Coimbatore.

Civil Engineering Department Association inauguration with office bearers
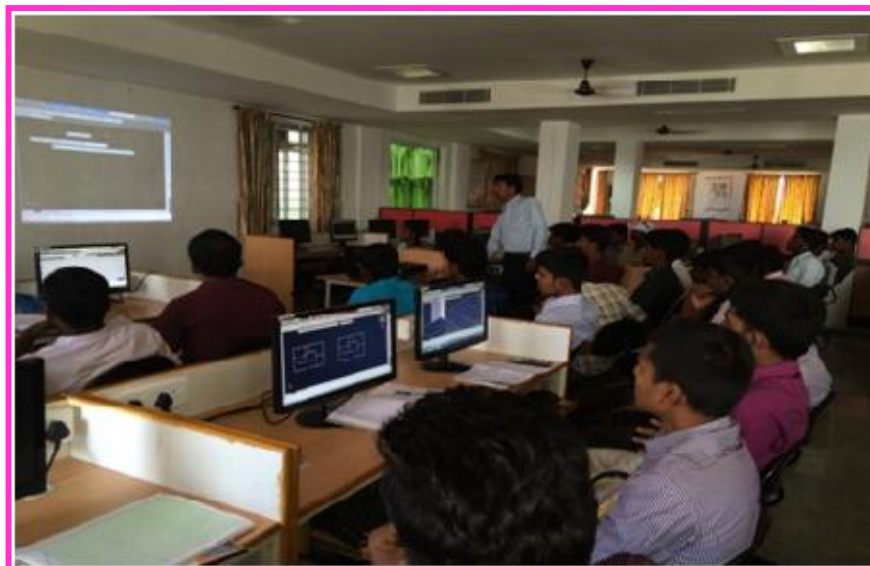
Value added course on Stadd. Pro.

One day workshop on advanced construction techniques in civil engineering projects

33. Teaching methods adopted to improve student learning:

Innovative teaching methods/ approaches Adopted
- NPTEL video Lectures   - ICT Based Teaching   - Activities based learning   - Mini projects   - Power Point Presentation   - Online test   - Seminars

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Year	Name of the project	Industrial /social relevance
2016	Comparative Study of Soil Stabilization using Rice Husk Ash and Coconut Husk Ash	Geotechnical engineering
2016	A Study of Factors affecting labour productivity in building	Construction management
2016	Ground Water Quality Analysis by SVM Algorithm	Environmental engineering
2016	Feasibility Study on application of Natural Coagulant	Water treatment engineering
2016	Experimental study on Durability Properties of High Grade Concrete using Mineral Chemical Admixtures	Structural Engineering
2016	Influence of Mineral and Chemical Admixture to improve the strength properties of high grade concrete	Structural engineering
2016	Assessment of Groundwater Quality Analysis By Rockworks 16 And Minitab	Environmental Engineering

2015	Experimental Study on Strength Characteristics By Partial Replacement of Fly-Ash Cement And Steel Slag- R Sand in M20 Concrete	Reduction in Environmental Pollution and Application in Construction Industries
2015	Partial Replacement of Foundry Sand in Paver Block	Reduction in Environmental Pollution and Application in Construction Industries
2015	Sustainable and Economical Concrete by using of Foundry Sand in Paver Block	Reduction in Environmental Pollution and Application in Construction Industries
2015	Strength Characteristic of HPC using Mineral Admixtures and Superplastizer	Improvement of Concrete Quality In Construction Industries
2015	Spatial Analysis of Ground Water Quality in Mettupalayam Taluk and Maping by using GIS	Water Quality Improvements
2015	Analysis of Surface Water Quality in Mettupalayam using GIS	Water Quality Improvements
2015	Spatial Analysis of River Water Quality of Bavani River by using GIS	Water Quality Improvements
2015	Experimental Study on Stabilization of Clay Soil Using Bagasse Ash	Application of Road Traffic
2015	Analysis of Surface Water Quality in Mettupalayam using GIS	Water Quality Improvements

2015	Spatial Analysis of River Water Quality of Bavani River by using GIS	Water Quality Improvements
2015	GIS Application for Road Network of Mettupalayam Taluk	Application of Road Traffic
2015	Experimental Study on Gas Transportation and GPS Survey	Applications of Road Traffic
2014	Planning,Designing & Estimation of Sky Bus metro for Coimbatore city (by using Ansys software)	Implementation of Transportation Engineering
2014	Statistical Analysis of Ground Water in Mettupalayam Taluk	Implementation of Water Quality management
2014	Spatial Analysis of Ground Water quality of Mettupalayam Taluk-using GIS software	Implementation of Water Quality management
2014	Ground Water Modelling of Mettupalayam Taluk	Implementation of Water Quality management

Our students volunteer themselves in blood donation camps, tree plantation, students sponsored books to library, NSS work etc.

Volunteering to create Indian Flag of length 1200m with hand impression

Participation in Blood Donation camps

Students Sponsoring Books

35. SWOC analysis of the department and Future plans

Strengths	- In -plant training and industrial visits are arranged to acquire practical knowledge. - Students are guided to excel in all the exams and to improve the pass percentage. - Placement training is provided to all the students and deserving candidates get placed every year in leading companies. - Well qualified faculty members. - Usage of visual aids for better understanding of subjects - In-house projects with the guidance of faculty members in relevant with industrial application - Conducted Technical Seminars, Workshops,

	Symposiums and Conferences for enrichment of knowledge • Recognizes and appreciates top academic performers in each year.
Weakness	• Faculty development programme is to be conducted • PG Course is not proposed • Consultancy activities is to be extended in all the laboratories • Less no of faculty members with PhD/ pursuing PhD
Opportunity	• Research projects have not been procured from funding agencies • Scope for Multi-disciplinary Research.
Challenges	• Students from rural areas with economically poor background • Securing 100% placement for students • Emphasis more University ranks
Future Plans	• To start PG course • Research Laboratory facility on particular specialization

EVALUATIVE REPORT OF THE
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

1. **Name of the department** : Computer Science and Engineering
2. **Year of Establishment** : 2010
3. **Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D.,Integrated Masters; Integrated Ph.D., etc.)**

Programme Offered	Nature of Course	Specialization
UG	BE	Computer Science and Engineering

4. **Names of Interdisciplinary courses and the departments/units involved**

Departments Involved	Semester	Interdisciplinary Courses
Science & Humanities	I	HS6151 Technical English – I MA6151 Mathematics – I PH6151 Engineering Physics – I CY6151 Engineering Chemistry – I GE6163 Physics and Chemistry Laboratory – I

	II	HS6251Technical English – II MA6251 Mathematics – II PH6251 Engineering Physics – II CY6251 Engineering Chemistry – II GE6262 Physics and Chemistry Laboratory – II
	III	MA6351 Transforms and Partial Differential Equations GE6351 Environmental Science and Engineering
	IV	MA6453 Probability and Queuing Theory
	V	MA6566 Discrete Mathematics
	VI	GE6674 Communication and Soft Skills – Laboratory Based
Mechanical Engineering	I	GE6152 Engineering Graphics GE6162 Engineering Practices Laboratory
Electronics and Communication Engineering	II	CS6201 Digital Principles and System Design CS6211 Digital Laboratory
	III	CS6364 Analog and Digital Communication
	IV	EC6504 Microprocessor and Microcontroller CS6412Microprocessor and Microcontroller Laboratory

	VI	IT6502 Digital Signal Processing
Electrical and Electronics Engineering	I	GE6162 Engineering Practices Laboratory
	VII	MG2452 Engineering Economics and Financial Accounting

5. Annual/ semester/choice based credit system (programme wise):

Semester based credit system is followed as per Anna University, Chennai norms for UG Programme

6. Participation of the department in the courses offered by other departments:

Details of the participation of the department in the other departments courses

S.No	Course Name	Department to which the courses handled
SEMESTER I		
1	GE 6151 Computer Programming	Civil Engineering
		Electrical & Electronics Engineering

		Electronics & communication Engineering
		Mechanical Engineering
2	GE 6161 Computer Practice Laboratory –I	Civil Engineering
		Electrical & Electronics Engineering
		Electronics & communication Engineering
		Mechanical Engineering
SEMESTER II		
3	GE6263 Computer Programming Laboratory	Electronics and Electrical Engineering
SEMESTER III		
4	EC6301Object Oriented Programming & Data Structures	Electronics & Communication Engineering
5	EC 6312 OOPS & Data Structures LAB	Electronics & communication Engineering
SEMESTER IV		
6	CS6456 Object Oriented Programming	Electrical & Electronics Engineering
7	CS6461 Object Oriented Programming Lab	

7. Courses in collaboration with other Universities, industries, foreign institutions:

Department has signed MoUs with industries and university to enrich students knowledge to fulfill the industrial need.

Details of MoUs with industries & University

S. No	Name of the Industry / University	Scope of MOU
1	AES	To enhance fundamental knowledge and concept behind some of the latest technologies.
2	C3 Tech	To educate the students to work on their own dream and are inspired to develop their understanding abilities.
3	New Techno trends	Awareness courses on networking and firewall concepts.
4	GMR Technologies	Awareness courses on networking and firewall concepts.
5	Teclever solutions pvt Ltd	Teclever enables you to navigate the maze of technology by providing solutions built on a foundation of deep technology knowledge and understanding of business ecosystems.

| 6 | WhiteHat Global Academy | White hat global academy is a complete information security, ethical hacking training and solution provider. |
| 7 | New Technology | To expose the student about mobile and laptop servicing. To train students for internship taining. |

Detail of collaboration with other industries

Details of Collaborative Activities	Collaborative Organization.(Institution / Corporate)
Students Project	Sans Pareil IT Services Private Limited, Chennai
	HCL –Coimbatore
Faculty Training Programme	UTL Technologies, Bangalore
Placement Training	FACE
	Key mind Learning India Private Limited
	Six Phrase
	Global
Workshop	Linuxpert Systems, Chennai

	WhiteHat GlobalAcademy, Coimbatore
	C3 Technology, Mettupalayam
Value Added Course	Banyan Technologies, Coimbatore
	Cegon Soft, Coimbatore
	C3 Technology, Mettupalayam

8. **Details of courses / Programmes discontinued (if any) with reasons:** NIL

9. Number of teaching posts

	Sanctioned	Filled
Professors	1	0
Associate Professors	2	0
Asst. Professors	9	10

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. / M. Phil. etc.):

Name	Qualification	Designation	Specialization	No of years Experience
Mr. Srihari. VD	ME., (Ph.D.,)	Assistant Professor	CSE	6.6
Mr. Ramakrishnan. M	ME., (Ph.D.,)	Assistant Professor	CSE	9.10

Ms. Ramya R	ME.,	Assistant Professor	CSE	6.2
Mr. Srinivasan.L	ME.,	Assistant Professor	CSE	4.8
Mr. Madhavakrishnan.M	M.Tech.,	Assistant Professor	CSE	3.8
Ms. Biruntha.S	ME.,	Assistant Professor	CSE	3.7
Ms. Sangeetha R	ME.,	Assistant Professor	CSE	3.8
Ms. Yuvalatha.S	ME.,	Assistant Professor	CSE	2.8
Ms. Deepika.R	ME.,	Assistant Professor	CSE	2.8
Ms. Kavitha.M	ME.,	Assistant Professor	CSE	0.7

11. List of senior visiting faculty:

S.No	Name of the faculty	Organization
1	Mr. R. Ganesh M.E.,	C3Tech, Coimbatore

12. Percentage of lectures delivered and practical classes handled (programme Wise) by temporary faculty   :

As we have sufficient number of faculty members to handle the lectures and practical classes with sufficient experience, we did not require any temporary faculties.

13. Student -Teacher Ratio (Program wise)

UG: B.E in Computer Science and Engineering - 15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Number of Academic support staff: 1

Details of the Academic support staff

S.No	Name of the Academic support staff	Designation
1	Mr. A Santhosh	Lab Technician

15. Qualifications of teaching faculty with D. Sc / D.Lit / Ph. D/ M. Phil./ PG:

No. Of Faculty with Ph.D Qualification   :   Nil

No. Of Faculty with PG Qualification   :   10(2 Pursuing Ph.D)

16. Number of faculty with ongoing projects from a) National b) International and grants received:

Ongoing projects from National & International funding agencies: Nil

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Projects are yet to be communicated in the upcoming semesters.

18. **Research Centre / facility recognized by the University:**

Name of the Laboratory	List of major Equipment / Software	Major areas of Research
Server Configuration	IBM Rack Server	Networking
Network Simulators	NS2 and GlomoSim	Networking

19. Publication:

Details of Faculty Publications in Journal/Conferences

Author	Title of the Research Paper	Name of the Journal	Volume/ Issue No. /Year
Publications in Journals:			
Srihari V D	Recommendation on the web Search by Using Co-Occurrence	International Journal of Innovative Research in Computer and Communication Engineering	Volume 3, Issue 3, March 2014
Ramakrishnan.M	Distributed Multipath Routing Protocols for Wireless Networks	International Journals of Advanced Information Science and Technology	Volume 8, Issue 8, December 2012
	Ontology Based		Volume 3, Issue 3,

	Searching Meta Data Extraction	International Journal of Innovative Research in Computer and Communication Engineering	March 2014
	Analysing the Efficiency of Data By using Fast Clustering and Subset Selection Algorithm	International Journal of Innovative Research in Computer and Communication Engineering	Volume 3, Issue 3, March 2014
	Distributed Multipath Routing Protocols for Wireless Networks	Australian Journal of Basic and Applied Sciences (*AJBAS*)	Pages: 321-325 March 2015
Srinivasan.L	Efficient Content Downloading in Multi hop Vehicular Network	International Journal of Innovative Research in Computer and Communication Engineering	Volume 3, Issue 3, March 2014

	Survey on scheduling methods in P2P desktop grid	International Journal of computer network and security	Volume 4,No 1,Jan-Mar 2012
Biruntha.S	Biometric privacy using non expansible visual cryptography scheme	International Journal of advanced Information science and Technology	Volume 14, Issue 14, June 2013
	Data mining-performance improvement in Education Sector using classification and clustering algorithm	International Journal of Data Mining Knowledge Engineering	Volume 4, Issue 8, July 2012
	Techniques for component reusable Approach	AIRCCJ International Journal of CS&IT-CSAP,	November 2012
	Survey on security scheme for Biometric privacy	International Journal of Computer	December 2012

Yuvalatha.S	Automatic Merging of Domain Specific Ontology	International Journal for Research on Extended Education	Volume 1, Issue 1, august 2014
	To Resolve Heterogeneity on Ontology Merging in Semantic Web-Survey	International Journal of Advanced Research in Computer Science	Volume 6, Issue 2, April 2015
Deepika.R	Study of Wireless Sensor Network and Its Current Trend in Application	International Journal of Engineering Science and Innovative Technology (IJESIT)	Volume 3, Issue 1, January 2014
	Preventing the Privacy Breach Using Perturbation	International Journal of Engineering Science and Innovative Technology (IJESIT)	Volume 3, Issue 1, January 2014

	Study of Functional and Matching Dependencies for Privacy Preservation in Micro Data	International Journal of Software & Hardware Research in Engineering (IJSHRE)	Volume 2, Issue 1, January 2014
Conferences:			
Srihari V D	Mining relational option from online review using WAM	National conference on Technological Advancements in Engineering	2016
	Reducing overlapped communities	National conference on Technological Advancements in Engineering	2016
Ramakrishnan. M	Enhancing video security using steganography	National conference on Technological Advancements in Engineering	2016
	Face Recognized Credit card Fraud Detection by using LBP and SVM Algorithm	National conference on Technological Advancements in Engineering	2016
	Data hiding in encrypted videos	National conference	2016

	with on time streaming	on Advanced Information and System for Sustainable Developments in Electrical and Electronics Engineering	
	A Novel leader election method for load balancing in mobile AD HOC network	National conference on Emerging Trends in Instrumentation Systems	2016
	Fractal Face Recognized Gmail Accessor with Pattern Based Spam Detector	Advanced Information and System for Sustainable Development in Electrical and Electronics Engineering	2015
Ramakrishnan. M	Analysing the efficiency of data by using fast clustering	National conference on Computation , Control And	2014

	and subset selection algorithm	Communication Technologies	
MadavaKrishnan M	PR Technique for Differentiated Real Time Data Services	National conference on Technological Advancements in Engineering	2016
	An Android application for women safety	National conference on Technological Advancements in Engineering	2016
	User Interest Mining With Privacy Protection	IEEE International Conference on Soft –Computing and Network Security	2015
	Moving Object Detection Using Alerting System	National conference on Recent trend in Information and communication Engineering	2014
Srinivasan.L	Mitigating inside jammers by frequency based broadcasting scheme	National conference on Technological Advancements in Engineering	2016

	Multiple Key Generation for Mobile Users in Cloud Computing	National conference on Technological Advancements in Engineering	2016
Srinivasan.L	Efficient content downloading in multihop vehicular adhoc network	National conference on Computation , Control And Communication Technologies	2014
Biruntha.S	Data Leakage detection and Prevention	National conference on Technological Advancements in Engineering	2016
Ramya R	Acute myeloid leukemia etection, blood group identification & blood level in blood microscopic images	National conference on Technological Advancements in Engineering	2016

Deepika	Maximize the Lifetime of the Wireless Sensor Networks using coverage area and Scheduling	National conference on Technological Advancements in Engineering	2016
Yuvalatha S	Identification of Biometric System with Even Distorted and Rectification States	National conference on Technological Advancements in Engineering	2016
	Secure Ordering Of Message Using Virtual Bucket Storage Scheme	Advanced information and system for sustainable Development in Electrical and Electronics Engineering	2015

Students Publications in Journal/conferences

Name of the Students	Title of the Research Paper	Name of the Journal/ Conference	Volume/ Issue No. /Year of Publication
Publications in Journals:			
Arunsathupathy raja Pavithra R Stalin V Vinitha Grace	Analysing the efficiency of data by using fast clustering and subset selection algorithm	International Journal of Innovative Research in Computer and Communication Engineering	Volume 3, issue 3, march 2014
Jaya Balaji Thilagavathy Kubendiran	Recommendation on the Web Search by using Co-Occurrence	International Journal of Innovative Research in Computer and Communication Engineering	Volume 3, issue 3, march 2014
Puspharagunath Venice Christopher Vignesh R Deepika S	Effective and secure transmission approach for multi cluster based wireless sensor networks	International Journal of Innovative Research in Computer and Communication Engineering	Volume 3, issue 3, march 2014

Conferences:

Ashwini P Banu Priya S Bency Kurain Deena R	Acute myeloid leukemia etection, blood group identification & blood level in blood microscopic images	National conference on Technological Advancements in Engineering	2016
Bhuvanamalar R Jeyasree T Mounika G Vinitha k	Mitigating inside jammers by frequency based broadcasting scheme	National conference on Technological Advancements in Engineering	2016
Deva Visagan RJ RajeshKumar RB Sarath Raj G	Mining relational option from online review using WAM	National conference on Technological Advancements in Engineering	2016
Iswariya S Kasturi V Mahalakshmi Narmatha M	An Android application for women safety	National conference on Technological Advancements in Engineering	2016
Kannan R Karthigeyan V Mohan Kumar R Veerchinnu C	Data Leakage detection and Prevention	National conference on Technological Advancements in Engineering	2016
Kannan S Prasanth T Ravichandran P VinuRagavan SB	Multiple Key Generation for Mobile Users in Cloud Computing	National conference on Technological Advancements in Engineering	2016

Mahavardhini D Shobana R Sathya T	Identification of Biometric System with Even Distorted and Rectification States	National conference on Technological Advancements in Engineering	2016
Manjula G Sandhya M Sowganthi A Sowparnika L	Reducing Overlapped Community Search	National conference on Technological Advancements in Engineering	2016
Manoj S Ravichandra S Saranraj T Govindaraj M	Enhancing Video Security Using Steganagraphy	National conference on Technological Advancements in Engineering	2016
Ramkumar V Selvakumar M VishwaPrasath S RajaAmarnath G	PR Technique for Differentiated Real Time Data Services	National conference on Technological Advancements in Engineering	2016
Salini S Sathiya Priya S Sevvanthi M SindhuPriya R	Face Recognized Credit card Fraud Detection by using LBP and SVM Algorithm	National conference on Technological Advancements in Engineering	2016
Anish R Mugesh K Ponnupandi K Venkatesh Prabhu R	Maximize the Lifetime of the Wireless Sensor Networks using Scheduling Algorithm	National conference on Technological Advancements in Engineering	2016
Anthonyraj S	Key Aggregation in Cloud Storage with	Recent Trends in Computing	March 2015

Janarthanan SamsonDaniel M Shankar Sathish C	Third Party auditing	Communication and Control	
Aravind M S Arulvadivu G Jayashri R Karthick M	User Interest Mining With Privacy Protection	IEEE International Conference On Soft-computing and Network Security	February 2015
Shirbin K M Gopinath C Mainkandan M Giri Prasad S	Fractal Face Recognized Gmail Accessor with Pattern Based Spam Detector	Advanced Information and System for Sustainable Development in Electrical and Electronics Engineering	2015
Ramya A Reena R Pavithra E	Privacy Preserving Preserving Feature Selection Technique Base On Naive Bayes	Innovative Intelligence in Computer Technologies	2015
Arukkani RamajayalakshiS Indhu N	Identifying Verification Scheme for Secure Data Transmission	Innovative Intelligence in Computer Technologies	2015

Karthik K Rajesh D Rakesh R Stalin B	Secure Ordering Of Message Using Virtual Bucket Storage Scheme	Advanced information and system for sustainable Development in Electrical and Electronics Engineering	2015
Don Bosco C Dhanabalan R Jeeva Priya S G John Joseph M	End To End Secure Password Transmission by using Steganography	IEEE international Conference on Soft computing and network Security	2015
Balakumar M Devaraj P Rajalakshmi MS Sreeja R	Anonymus Location Based on-Demand Distance Vector Routing	National conference on innovation in communication and instrumentation	2014
Gophalraj k Geetha D Jagan VM Pavithra R	Secure Enhanced Adaptive Acknowledgement Scheme For Detecting Misbehavior Nodes in MANET	National conference on innovation in communication and instrumentation	2014

Sajini P Srenath R VigneshKumarR Vignesh S	Load Balancing in Content Delivery Networks using Periodic Sampling Techniques	National conference on innovation in communication and instrumentation	2014
Nandhini K MercyMegdaliM Mohamed Shameem Sudharsan G	Moving Object Detection Using Alerting System	National conference on Recent trend in Information and communication Engineering	2014
Omprakash Santhosh Kumar Sindhu T Vinothini	Recovering from a node failure in wireless sensor multi actor networks with minimal topology changes	National conference on advancements in Computing Methodologies	2014
Jaya Balaji Thilagavathy Kubendiran	Recommendation on the Web Search by using Co-Occurrence	National conference on Computation , Control And Communication Technologies	2014

Devisree R Govind Menon K Sherlin Prabha R Vimal V	Web Search Result using Incremental Algorithm	National conference on innovation in communication and instrumentation	2014
Dileep K Gandhiraj K Sindhuja P	Design and Implementation of Dynamic Multilevel Priority Packet Scheduling for Wireless Sensor Network	National conference on innovation in communication and instrumentation	2014
Kalaivani P Ramachandra S SathishKumar GK Menaka N	Rebalancing Techniques for distributing information to clients	National conference on Computation , Control And Communication Technologies	2014
Arunsathupathy raja Pavithra R Stalin V Vinitha Grace	Analysing the efficiency of data by using fast clustering and subset selection algorithm	National conference on Computation , Control And Communication Technologies	2014

Puspharagunath Venice Christopher Vignesh R Deepika S	Effective and secure transmission approach for multi cluster based wireless sensor networks	National conference on Computation , Control And Communication Technologies	2014
MohanaprakeshS Sathish kumar S Vaishnavi R Angaline suganya E	Ontology based searching meta data extraction	National conference on Computation , Control And Communication Technologies	2014
Jeyanthi Kishore kumar Prasanth Suresh kanna	Efficient content downloading in multihop vehicular adhoc network	National conference on Computation , Control And Communication Technologies	2014
Abinaya Hariprasath Lavanya	KASR: A keyword aware service recommendation method on map reduce for big data applications	National conference on innovation in communication and instrumentation	2014

20. Areas of consultancy and income generated:* NIL

21. Faculty as members in a) National Committees b) International Committees C) Editorial boards. 02

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme:

S.No	Academic Year	Percentage
1	2013-2017(UG)	88.5%
2	2012-2016(UG)	91.4%
3	2011-2015(UG)	97.2 %
4	2010-2014(UG)	100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

S.No	Academic Year	Percentage
1	2013-2017(UG)	11.5%
2	2012-2016(UG)	8.6%
3	2011-2015(UG)	2.8 %

23. Awards/ Recognitions received by faculty and students

       No of Faculty   : 4

       No of Students :   : 5

24. List of eminent academicians and scientists/ visitors to the department

- Mr.Sakthivel Manikandan , Technical specialist, Robert Bosch, Coimbatore
- Mr. Ganesh Ramasamy C3TECH, Coimbatore
- Mr S. Baskar, CEO, Linuxpert Systems, Chennai
- V.Senthilkumar , Manager- HR, Honeywell.
- Saravana Praveen, Manager-HR, HP.
- Stanley George, HR, Hexaware.
- Ramakrishnan Nataraj, CEO, White hat Global Academic, Coimbatore.
- Ramesh Srinivasan, Director-Data Operation, Owler Inc,Coimbatore
- Aravind S Venkatachalam, Cofounder& Director, Innoaccel Solution Private Limited,Coimbatore

25. Seminars/ Conferences/Workshops organized & the source of funding

Date	Title of the program organized (Workshop / Guest Lecture/ Conference / Seminar, FDP etc.)	Name and address of the expert	Sponsoring Agency/ Self- Supporting
02nd August 2014	Wireless Sensor network	Dr.P.T.Vanathi Prof, PSG Institute of Technology, Coimbatore.	Self Supporting
		Mr.S.Baskar,	Self Supporting

30th & 31st July 2014	Open source lab	Chief Executive officer, LINUXPERT systems Chennai.	
18th October 2015			
10th & 11th march 2016	Mobile Application Development Lab	Mr.Ramakrishnan nataraja, Founder & CEO of WhiteHat GlobalAcademy, Coimbatore	Self Supporting
27th & 28th July 2016	Grid and Cloud Computing		
17 August 2016	Cyber Security	Mr.Aravind S Venkatachalam, Cofounder & Director of Innoaccel solution private limited	Self Supporting

26. Student profile programme/course wise:

Name of the Course/ programme	Batch	Intake	Applications Received	Selected	Enrolled		Pass percentage
					M	F	
BE /CSE	2015-2019	60+12	#	35	8	0	22.85 %
	2014-2018	60+12		25	2	8	40%
	2013-2017	60+12		26	5	2	26.92%
	2012-2016	60+12		46	12	21	71.73%
	2011-2015	60+12		36	13	19	88.85%
	2010-2014	60+12		57	28	26	94.73%

Applications are received and processed by Anna University and seats are filled through Single Window Counselling and Consortium

27. Diversity of Students

Name of the Course	Batch	Total Strength	% Of Students From the Same state	% Of students From other States (Pondicherry, Kerala, Andra Pradesh)
BE /CSE	2015-2019	35	100	Nil
	2014-2018	25	100	Nil
	2013-2017	26	100	Nil
	2012-2016	46	93.5	6.5
	2011-2015	36	97.3	2.7
	2010-2014	57	98.3	1.7

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc?

Our students are appearing for GATE, TANCET, UPSC, TNPSC exams during the final year.

Year	No. of students applied for GATE Exam	No. of students Applied for TANCET	No. of students admitted for higher studies / Job Placement through GATE/TANCET / Other Exams
2015-2016	-	1	-
2014-2015	-	1	-

29. Student progression

Student progression	Against % enrolled		
	2010-2014	2011-2015	2012-2016
UG to PG	-	1	1
Employed through Campus Selection	100 %	64 %	73.3%
Employed Other than Campus Recruitment	Nil	33%	20%
Entrepreneurship / Self-employment	Nil	3%	6.6%

30. Details of Infrastructural facilities Internet facilities for staff & students

a) Library:

Central Library – Computer Science & Engineering	
Titles	450
Volumes	2156
National Journals	6
International Journals	6
E-Journal	1
Department Library	
Titles	134
Volumes	552

b) Internet facilities for Staff & Students

- A separate Internet center is functioning in the College for the benefit of students and faculty.
- Department Computer Systems are connected with LAN. Wired Internet and Wi-Fi facility is available in the department for the benefit of faculty and students.

c) Class rooms with ICT facility.

- Class rooms are equipped with LCD, Wi-Fi facility with high configured Computer Systems.

d) Laboratories

- The Department of Computer Science and Engineering has well equipped laboratories such as,

Open Source Software Lab:

Intel Core2 DUO 2.93 CPU / 2GB DDR2 RAM / 320GB Hard Disk / ESYS Keyboard / ESYS Optical Mouse / ESYS 18.5'' TFT Monitor

Project Lab:

Intel atom 1.6GHz / 2GB DDR2 RAM / 320GB Hard Disk / ZENITH Keyboard / ZENITH Optical Mouse / ZENITH 18.5'' TFT Monitor

Graphics and Multimedia Lab:

Intel core i3 3.30GHz / 4GB DDR3 RAM / 250GB Hard Disk / ZENITH Keyboard / ZENITH Optical Mouse / ZENITH 18.5'' TFT Monitor

Networks Lab:

Intel core i3 / 4GB DDR3 RAM / 320GB Hard Disk / WIPRO Keyboard / WIPRO Optical Mouse / WIPRO 18.5'' TFT Monitor

The department of Computer Science and Engineering has the following licensed software:

Sl. No.	Type of Software	Details
1	**System Software**	Microsoft Desktop Optimization Pack for SoftwareAssurance 2014 R2 Microsoft Desktop Optimization Pack for Software Assurance 2015 Windows 10 Education Windows 10 Professional Windows 7 Enterprise Windows 7 Professional Windows 10 Education N

		Windows 7 Enterprise N
		Windows 8.1 Enterprise
		Microsoft E-Learning - Applications: Office 2013 ,2010,2007,2003
		Microsoft E-Learning – Winsystems: Win8, Win7, VISTA,XP
		Forefront Identity Manager 2010 R2 with SP1
		Win Srv 2008 Data Ctr / Itan KMS C
		Win Srv 2008 Data Ctr / Itan MAK C
		Windows Cluster Server
		Windows Server 2003 R2, x64 Ed.
		Windows Server 2012 Essentials
		Windows Server 2012 R2 Essentials
		Windows Server 2012 R2 Standard
		Windows Server 2012 Standard
		Windows Server Enterprise 2008
		Windows Server Enterprise 2008 R2
		Windows Server Enterprise 2008 Service Pack 2
		Windows Server Language Packs 2008 R2
		Windows Server Standard 2008
		Windows Server Standard 2008 R2
		Windows Server Standard 2008 Service Pack 2
		Windows Server Standard 2008 without Hyper - V
		Windows Server Standard 2008 without Hyper – V Service Pack 2
		Windows Server Standard 2008 without Hyper – V with Service Pack 2
		Windows Small Business Server Essentials 2011
		Windows Web Server 2008
		Windows Web Server 2008 R2

		Windows Web Server 2008 R2 Service Pack 1
		Fedora
		Ubuntu
2	**Application Software**	Entourage 2008 for Mac
		Entourage 2008 for Mac with SP2
		Groove 2007
		Lync 2013
		Office 2007 SP 3 (for office 2007 suites & applications)
		Office Professional Plus 2010
		Office Professional Plus 2013
		Office Professional Plus 2016
		Visual Studio Professional 2015
		SQL server 2014 Standard Edition with SP1-Server /CAL
		SQL server Standard 2008 SP4
		SQL server Web 2008 R2
		SQL server Workgroup 2008 R2
		System Center 2012 Config Mgr Client Mgmt License with SP2
		System Center 2012 Endpoint Protection with SP2
		System Center 2012 R2 Config Mgr Client Mgmt License with SP
		C++ Compiler
		JAVA
		My SQL
		Post Gress
		DB2
		C,C++
		JAVA Network Simulator like NS2

| Opnet |
| J2ME, J2SDK |
| Linux |

31. Number of students receiving financial assistance from college, University, government or other agencies:

Scholarship Details	Number of students			
	2016-17	2015-16	2014-15	2013-14
Government Agencies	33	13	5	6
Management Merit Scholarship	11	4	6	7

32. Details on student enrichment programmes (special lectures /workshops / seminar) with external experts:

Date	Title of the program	Details of Eminent Resource Person
17/08/2016	Guest lecture on Cyber Security	Mr.Aravind S Venkatachalam, Cofounder & Director of Innoaccel solution private limited
01/08/2016 to 02/08/2016	Workshop on CORE JAVA	Ganesh Ramasamy, C3TECH, Coimbatore
27/07/2016 to 28/07/2016	Workshop on Grid and Cloud Computing	Mr.Ramakrishnan nataraja, Founder & CEO of WhiteHat Global Academy, Coimbatore.
07/04/2016	National Level Technical Symposium ZAPTIREZTA 2K16	Mr.Ramesh Srinivasan, Director – Data Operation, Owler Inc, Coimbatore
10/03/2016 to 11/03/2016	Inauguration of APP Developers club and workshop on Mobile application Development lab	Mr.Ramakrishnan nataraja, Founder & CEO of WhiteHat Global Academy, Coimbatore

18/09/2015	Workshop on Open Source Lab	Mr. S. Baskar LinuXpert Systems, Chennai
20/02/2015	National Level Technical Symposium ZAPTIREZTA 2K15	Sakthivel Manikandan, Robert Bosch
15/02/2015 to 15/07/2015	Value added course on JAVA	Ganesh Ramasamy C3TECH, Coimbatore
30/07/2014 to 31/07/2014	Workshop on Open Source Lab	Mr. S. Baskar, LinuXpert Systems, Chennai
04/08/2012 to 05/01/2013	Value added course on JAVA/J2EE	Banyan Technology Solution
04/08/2012 to 05/01/2013	Value added course on ASPDOTNET framework	Cegonsoft, Coimbatore

Guest lecture on Cyber Security on August 2016

Workshop On Grid And Cloud Computing on July 2016

National Level Technical Symposium ZAPTIREZTA 2K16
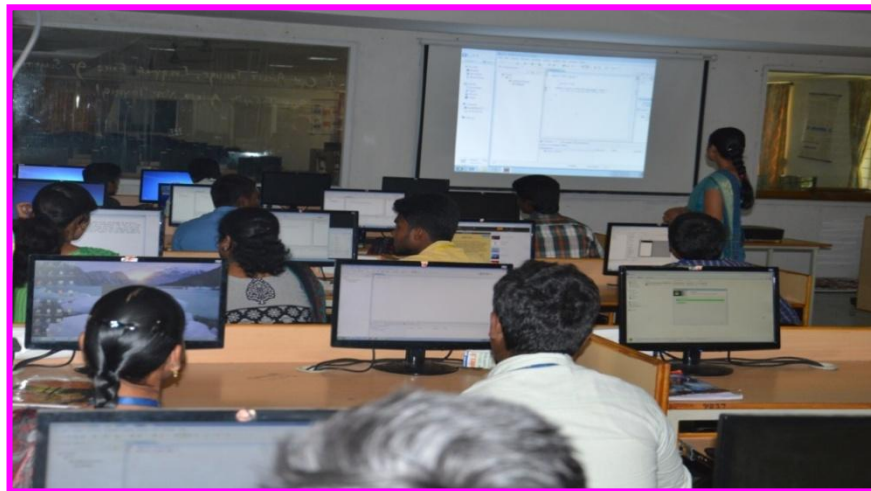
Workshop on Mobile application Development Lab on March 2016

National Level Technical Symposium ZAPTIREZTA 2K15

Value Added Course on JAVA on February 2015

Workshop on Open Source Lab on July 2014

Value Added Course on JAVA / J2EE on August 2012

Value Added Course on ASP.NET on August 2012

33 (a) Teaching methods adopted to improve student learning:

Innovative teaching methods/ approaches Adopted
- Moodle Server   - ITC Based Teaching   - Activities based learning   - Mini projects   - Power Point Presentation   - Chart works   - Online test   - Seminars

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Blood Donation Camp at SSEC

Participation in Blood Donation camps

Tree Plantation Program at college campus to create an eco green environment

Conducted free course for school students

35. SWOC analysis of the department and Future plans

Strengths	- Experienced and well qualified faculty members - The College provides students with a quality, relevant curriculum. - Adoption of smart class teaching methodologies for enhancing students understanding level - Industry driven institution- Industrial Practical Knowledge Training / Work along Programmes in relevant industries from first year onwards. - Best place for placement- The very active placement center serves as a foundation for many carriers by guiding students the right direction through continuous counseling and arranging for campus recruitment. - Excellent Placement record –100% of eligible students get placed every year in leading companies. - Students are encouraged to participate in Technical Seminars, Workshops, Symposiums and Conferences Recognizes and appreciates top academic performers in each class in the internal evaluations & University exams.
Weakness	- R & D proposals are yet to be sanctioned. - Inadequate number of PG Course - Consultancy activities need to be improved - Increase real time project for final year students Less number of faculty members with PhD/ pursuing PhD

Opportunity	• To seek research grants from Industry-institute collaboration
Challenges	• Students from rural areas with economically poor Background • Securing 100% placement for students Emphasis more University Ranks
Future Plans	• To start PG course. • Research and development cell to be emphasized. • Incubation centers are to be implemented.

**EVALUATIVE REPORT OF THE DEPARTMENT OF ELECTRONICS &
COMMUNICATION ENGINEERING**

1. **Name of the department** : Electronics and Communication
       Engineering
2. **Year of Establishment** : UG: **2010**   PG: **2012**
3. **Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D.,
    Integrated Masters; Integrated Ph.D., etc.)**

Programme Offered	Nature of Course	Specialization
UG	B.E	Electronics and Communication Engineering
PG	M.E	VLSI Design

4. **Names of Interdisciplinary courses and the departments/units involved**

Departments Involved	Semester	Interdisciplinary Courses
Science & Humanities	I	HS6151 Technical English MA6151 Mathematics-I PH6151 Engineering Physics-I CY6151 Engineering Chemistry-I GE6151 Computer Programming GE6152 Engineering Graphics
	II	HS6251 Technical English - II MA6251 Mathematics-II PH6251 Engineering Physics-II CY6251 Engineering Chemistry-II EE6201 Circuit Theory

	III	MA6351 Transforms and Partial Differential Equations
Science & Humanities	IV	MA6451 Probability & Random Processes
	V	GE6351 Environmental Science and Engineering
	VI	GE6674 Communication Skills & Personality Development Lab
	M.E/ I	MA7157 Applied Mathematics for Electrical and Electronics Engineers
Mechanical Engineering	VI	MG6851 Principles of Management
Computer Science and Engineering	III	EC6301 Object Oriented Programming and Data Structures EC6312 OOPS and Data Structures Lab
	VI	CS6303 Computer Architecture
Electrical and Electronics Engineering	IV	EC6405 Control System Engineering EE6461 Electrical Engineering and control system lab

5. **Annual/ semester/choice based credit system (programme wise):**

Semester based credit system is followed as per Anna University, Chennai Norms for UG & PG Programmes

6. **Participation of the department in the courses offered by other departments:**

Details of the participation of the department in the other departments courses

Sl.No	Course Name	Department to which the courses handled
SEMESTER I		
1	GE6162 Engineering Practices Lab	Civil Engineering
		Electrical & Electronics Engineering
		Computer Science and Engineering
		Mechanical Engineering
SEMESTER II		
2	CS6201 Digital principles and System design	Computer Science and Engineering
3	CS6211 Digital Lab	
4	EE6201 Circuit Theory	Electrical & Electronics Engineering
SEMESTER III		
5	CS6304 Analog and Digital Communication	Computer Science and Engineering
SEMESTER IV		
6	EC6504 Microprocessor and Microcontrollers	Computer Science and Engineering
7	CS6412 Microprocessor And Microcontrollers Lab	
8	EE6403 Discrete Time Systems and Signal Processing	Electrical & Electronics Engineering
SEMESTER VII		
9	IT6502 Digital Signal Processing	Computer Science and Engineering

7. Courses in collaboration with other Universities, industries, foreign institutions:

Department has signed MoUs with industries to enrich the knowledge of students to fulfil the industrial need.

Details of MoUs with industries & University

S. No	Name of the Industry / University	Scope of MOU
1	UTL Technologies Ltd, Bangalore Tamil Nadu	UTL is engaged in imparting quality education in the field of Embedded technology and related field.
2	VI Micro systems Pvt Ltd, Coimbatore. Tamil Nadu	Provides a complete solution for various laboratories in the technical training institutions to target the requirement in advanced design and industry based technology.
3	BSNL,Coimbatore., Tamil Nadu	To develop a special relationship where by effective telecom services to the extract possible from time to time are provided to SSEC
4	Advetech Pvt. Ltd. Coimbatore, Tamil Nadu	Imparting quality education in the field of Embedded technology and related field and for the design of projects.
5	Analog and Digital Labs,DB Road, RS Puram. Coimbatore - 641 007, Tamil Nadu	To improve the skill set of engineering in research and development and make them industry ready engineers
6	Bigbodhi Academy Coimbatore – 641011, Tamil Nadu	BigBodhi Academy is a platform for students to exercise their creativity, problem-solving, technical and team work skills. We enable students to be better

		equipped to meet the challenges of the future society, a future where innovation, originality and ability to work in a team will serve as key competitive parameters, through various programs involved in developing their skill set.
7	Square Systems, Coimbatore- 641104, Tamil Nadu	Research and Development company working on automation equipment, instrument stand,plc based system, instrumentation equipment, proximity control unit, power switching mode
8	E- Craft Solutions, 30,Badmanapa Nagar Civil airport road, Coimbatore -641 014, Tamil Nadu	Industrial needs in Electronics automation and PCB Designing and Manufacturing.Our commitment to quality leads us to set a remarkable market share in the field. We strive the drive of the commitment continuously to ensure compact design and defect free product in service.
9	Sunshiv Electronic 8, Rajiv Nagar 1st Street, K.K.Pudhu Road, Kovilmedu. Coimbatore- 641 025, Tamil Nadu	The projects are guided by the experienced electronic engineers who knows how the process to be carried out periodically. Tracing and Detecting of faults in the development stage will be reported.

MoU with Analog and Digital Labs – 2016

MoU with Bigbodhi Academy - 2016

UTL Technologies Ltd, Bangalore

Detail of collaboration with other industries

Details of Collaborative Activities	Collaborative Organization.(Institution / Corporate)
Students Project	Sakthi controls Pvt. Ltd
	Advetech Pvt. Ltd. Coimbatore
Faculty Training Programme	UTL Technologies, Bangalore
Placement Training	Focus Academy for Career Enhancement (FACE)
	Key mind Learning India Private Limited
	Six Phrase, Coimbatore
Internship	Software Tech Solutions Pvt. Ltd Coimbatore
Value Added Course	UTL Technologies Ltd, Bangalore
	Advetech Pvt. Ltd. Coimbatore

	National Instruments Lab View
Inplant training	BSNL Coimbatore
	Kerala Electrical & Allied Engineering Co. Ltd Kochi
	SALZER Electronics Coimbatore
	Pantech Solutions Coimbatore
Inplant training	Bharat Sanchar Nigam Limited Coonoor
	Software Tech solutions Pvt. Ltd
Workshop / Seminar	E- CRAFT solutions
	National Instruments Lab View
Industrial Visits	Signal and Telecommunication Workshop Southern Railways,Podanur
	Radio Astronomy Centre, Ooty
	Indian Space Research Organization (ISRO) Thiruvananthapuram
	ACE Components and Eletronics Pvt. Ltd, Mysoore
	Indian Gears, Mysoore
	Coreel Technologies, Bangalore
	UTL Technologies Ltd, Bangalore
	Focuz infotech, Kochi
	Electrical Systems, Wonderla
	Chips Software Systems Pvt Ltd Cochin
	Kerala Electrical & Allied Engineering Co. Ltd Kochi

8. **Details of courses / Programmes discontinued (if any) with reasons:**

NIL

9. **Number of teaching posts**

	Sanctioned	Filled
Professors	4	2
Associate Professors	4	1
Assistant Professors	19	20

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. / M. Phil. etc.):**

Name	Qualification	Designation	Specialization	No of years of experience
Dr.Shanthi I	Ph.D.,	Professor	Image processing	29
Dr.Sridevi A	Ph.D.,	Professor	VLSI Design	8
Ms Prabhavathy S	M.E.,	Assistant Professor	Embedded System	7
Ms Dhivya Priya N	M.E.,	Assistant Professor	Communication Systems	3
Mr Sedhuramalingam K	M.E.,	Assistant Professor	Control and	5
Mr.Karthikraja K	M.E.,	Assistant Professor	Applied Electronics	3
Ms.Nithya V	M.E.,	Assistant Professor	Control and Instruments	5
Mrs.Jamuna.R	M.E.,	Assistant Professor	VLSI Design	6 Months
Mrs.Savitha.A	M.E.,	Assistant Professor	VLSI Design	1

Mr.Jayabalasubramaniam.P	M.E.,	Assistant Professor	Communication Systems	10
Mrs.Kavitha.S	M.E.,	Assistant Professor	VLSI Design	1
Mr.Kannan S	M.E.,	Assistant Professor	Communication Systems	5
Mr.Sriram R	M.E.,	Assistant Professor	VLSI Design	3
Mrs.Gomathi P	M.E.,	Assistant Professor	VLSI Design	1
MS. Yasotha R	M.E.,	Assistant Professor	VLSI Design	1
Mrs.Prema.A	M.E.,	Assistant Professor	VLSI Design	6 Months
Mrs.Brindha.S	M.E.,	Assistant Professor	VLSI Design	6 Months
Mr.Kanithan S	M.E.,	Assistant Professor	Applied Electronics	1
Mr.Senthil Raj S	M.E.,	Assistant Professor	Computer and Communication	1
Ms.Thirukkani N	M.E.,	Assistant Professor	VLSI Design	6 Months

Faculty Details for PG

Name	Qualification	Designation	Specialization	No of years of experience
Dr.Purushothaman A	Ph.D.,	Associate Professor	Image Processing	4
Mr.Muthukumaran P	M.E.,	Assistant Professor	VLSI Design	3

| Mrs.Thilagavathy.A | M.E., | Assistant Professor | VLSI Design | 3 |

11. List of senior visiting faculty:

S.No	Name of the faculty	Organization
1	Mr. C.Suresh Kumar	Senior Technical Lead Infinite Computer Solutions Chennai.

12. Percentage of lectures delivered and practical classes handled (programme Wise) by temporary faculty :

We have not recruited any temporary faculty because we have sufficient number of faculty member to handle lecture classes and practical classes.

13. Student -Teacher Ratio (Program wise)

UG: B.E in Electronics and communication Engineering - 15:1

PG: M.E in VLSI Design – 12:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Number of Academic support staff:2

Details of the Academic support staff

S.No	Name of the Academic support staff	Designation
1	Mr.T.Rajkumar	Lab Technician

15. Qualifications of teaching faculty with D. Sc / D.Lit / Ph. D/ M. Phil./ PG:

    No. Of Faculty with PhD Qualification :   3
    No. Of Faculty with PG Qualification :   24

16. Number of faculty with ongoing projects from a) National b) International and grants received:

Ongoing projects from National & International funding agencies: Nil

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and Total grants received:

Projects are yet to be communicated in the upcoming semesters.

18. Research Centre / facility recognized by the University:

  YES. Department of electronics and communication engineering of our institution has been recognized as a research centre by Anna University Chennai with effect from 01.03.2017.

19. Areas of consultancy and income generated:*   NIL

20. Faculty as members in a) National Committees b) International Committees C) Editorial boards.   NIL

21. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme:

S.No	Academic Year	Percentage
1	2010-2014(UG)	100%
2	2011-2015(UG)	100 %
3	2012 - 2016(UG)	100%
4	2012 - 2014(PG)	94.44 %
5	2013 - 2015(PG)	100 %
6	2014 - 2016(PG)	100 %

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies: NIL

23. Awards/ Recognitions received by faculty and students

FACULTY ACADEMIC ACHIEVEMENTS

Academic Year 2015-2016		
S.No	Name 0f the Staff	Details Of Achievement (100% Results In University Examination, Etc)
1	Dr.A.Purusothaman	VLSI Signal Processing
2	Mr.S.Kannan	VLSI Design Techniques
3	Mr.P.Jayabala Subramaniam	Solid State Device Modelling and Simulation
4	Mr.P.Muthukumaran	ASIC and FPGA Design
5	Ms.A.Thilagavathy	Genetic Algorithms and its Applications

6	Dr.A.Purusothaman	Analysis and Design of Analog Integrated
7	Mr.K.Sedhuramalingam	CAD for VLSI Circuits
8	Mr.G.Tamilarasan	Low Power VLSI Design
9	Mr.P.Jayabala Subramaniam	Physical Design of VLSI Circuits
10	Mr.P.Muthukumaran	Design of Semiconductor Memories
11	Mr.S.Kannan	System on Chip design
Academic Year 2014-2015		
S.No	**Name 0f the Staff**	**Details Of Achievement (100% Results In University Examination, Etc)**
1	Mrs.S.Prabhavathy	Optical Communication And Engineering
2	Dr.A.Purusothaman	Signal Integrity And High Speed Devices
3	Ms.N.Dhivya priya	IP Based VLSI Design
4	Ms.N.Dhivya priya	Low Power VLSI Design
5	Mr.K.Sedhuramalingam	Cad For VLSI
6	Mr.P.Muthukumaran	Design of Semiconductor Memories
7	Mr.S.Kannan	VLSI Design Techniques
Academic Year 2013-2014		
S.No	**Name 0f the Staff**	**Details Of Achievement (100% Results In University Examination, Etc)**
1	Ms.A.Thilagavathy	Genetic Algorithms & Its Applications
2	Dr.I.Shanthi	Physical Design For VLSI Circuits
3	Dr.A.Purusothaman	Analysis & Design of Analog Integrated Circuits
4	Mr.G.Tamilarasan	System on Chip Design
5	Mr.K.Sedhuramalingam	VLSI Technology
6	Mr.P.Muthukumaran	Design of Semiconductor Memories

Academic Year 2012-2013		
S.No	Name 0f the Staff	Details Of Achievement (100% Results In University Examination, Etc)
1	Dr.I.Shanthi	Advanced Digital System Design
2	Mrs.S.Prabhavathy	Embedded System

STUDENTS ACADEMIC ACHIEVEMENTS

S.No	Name of the student	Batch	Nature of achievement
1	Nasreen Banu K	2010-2014(UG)	Anna University Rank (50th Rank)
2	Asha Achenkunju	2012-2014(UG)	Anna University Rank (47th Rank)
3	S.Joshwa Antony	2010-2014(UG)	Best Outgoing Student Award
4	A.Savitha	2013–2015 (PG)	University Rank
5	MM.Kayavizhi	2012-2016(UG)	Anna University Rank(46th)
6	MRs.R.Jamuna	2014-2016(PG)	Anna University Rank(22nd)
7	Ms.U.Nithilaa	2014-2016(PG)	Anna University Rank(33rd)

AWARDS/RECOGNITIONS RECEIVED BY STUDENTS

Department of Electronics and Communication Engineering					
Academic Year 2016-17					
Name of the Event	Date	Name of the Student	National /zonal	Host College	Achievement
Workshop	22.12.2016	Keerthana.S	National	Code bind Technologies	Participation
		Gomathi.S			

Academic Year 2015-16					
Workshop	20.02.2015	Iswarya.T	National	Karpagam College of Engineering.	**Participation**
		Pathmavathi.N			
		Yamuna Rani.S			
		Gomathi.R			
		Priyanka.P			
		RanjithKuma.M			
		Veeramani.J			
		Kajendran.S			
		Kavin Kumar.J			
Line Follower Competition		Selvakumar.P	National	Coimbatore Institute of Technology	**First**
		Ranjith Kumar.M			
		Sethu Subramaniam.K			
		Servan Chauhan.S			
Line Follower Competition		Selvakumar.P	National	Bannari Aman Institue of Technology	**Second Prize**
		Ranjithkumar.M			
		Sethu Subramaniam.K			
		Servan Chauhan.S			
Academic Year 2014-2015					
Best Manager	13.03.2015	Anand.N	National	Tamil Nadu College Of Engineering	**Participation**
		Rajith Kumar.M			
		Iswarya.T			
		Selva Kumar.P			
		Anand.N	National	Tamil Nadu	**Participation**

Technical Quiz	13.03.2015	Rajith Kumar.M		College Of Engineering	
		Iswarya.T			
		Selva Kumar.P			
Paper Presentation		M.Ranjith Kumar,	National	Sri Krishna College of Engineering	**First Prize**
		V.S.Suganthi			
Paper Presentation		Suganthi.V.S	National	Sri Krishna College of Engineering	**Second Prize**
		Ramya.R.S			
Workshop	19.09.2014	Sharmila Banu.R	National	Sri Krishna College of Engineering	**Participation**
		Karuthamal.T			
		Preethi.V			
		Murali.T			
		KuzhalVai mozhi.M			
		Suganya.K			
		Priyanka.P			
		Gomathi.R			
		Priyanga.G			
Papers Presentation	19.08.2014	Shanmini.M	National	Adithya Institute of Technology , Coimbatore	**Participation**
		Visalatchi.A,			
		Ramya sakthi.A			
		Thangamani.R			
		Priyanga.T			
Cryptanalysis	19.08.2014	Keerthana.P	National	Adithya Institute of Technology , Coimbatore	**Second Prize**

Academic Year 2013-14					
Name of the Event	**Date**	**Name of the student**	**National /zonal**	**Host college**	**Achievement**
SYMPOTRIX 2013		Revathi.R	National	Sree Sakthi Engineering College, Coimbatore.	**First Prize**
		Kasthuri.P			
Techno Buzz	05.09.2013	Kalapana.M	National	Sree Sakthi Engineering College, Coimbatore.	**Participation**
Micro Processer and micro Montroller and I	05.09.2013	Kalapana.M	National		
Circuit Mania	05.09.2013	Kalapana.M	National		
Non-Technical Quiz	05.09.2013	Kalapana.M	National		
Non Technical Quiz	05.09.203	Keerathana.P	National	Kumaraguru College of Technology, Coimbatore Kumaraguru College	**Participation**
Circuit Mania	05.09.203	Keerathana.P	National		
Techno Buzz	05.09.203	Keerathana.P	National		
Micro presser and	05.09.203	Keerathana.P	National		

				of Technology	
microcontroller					
ADZAP	24.02.2014	Keerthana.P	National	Sree Sakthi Engineering Collge, Karamadai	**First Prize**
Code Debugging	24.02.2014	Keerthana.P	National	Sree Sakthi Engineering Collge,Karamadai	**Second Place**
Circuit Debugging	21.03.2014	Keerthana.P	National	Sree Sakthi Engineering Collge,Karamadai	**First Place**
Isensobotzm on Arduino	28.02.2014	Keerthana.P	National		
Workshop	30.01.2014 and 31.01.2014	Keerthana.P	National	Easa Engineering Collge, Coimbatore	**Participation**
		Ranyasakthi.A			
Don'T you know	26.02.2014 - 28.02.2014	Keerthana.P	National	Karunya University, Coimbatore	**Participation**
Techno Buzzer	26.02.2014 - 28.02.2014	Keerthana.P	National		
TechnoVanta	26.02.2014 - 28.02.2014	Keerthana.P	National		

Step Up codes	26.02.2014 - 28.02.2014	Keerthana.P	National		
Academic Year 2012-13					
Name of the Event	**Date**	**Name of the student**	**National /zonal**	**Host college**	**Achievement**
Paper Presentation	28.03.2013	Kalapana.V	National	Sri Krishna College of Engineering and Technology	**Participation**
Circuit Debugging	28.03.2013	Kalapana.V	National		
Circuit Debugging	28.03.2013	Kalapana.V	National	Sri Krishna College of Engineering and Technology	**Third Prize**
Logo Competition	28.03.2013	Kalapana.V	National	Sri Krishna College of Engineering and Technology	**First Place**
Technical Quiz	28.03.2013	Keerthana.P	National	Sri Krishna College of Engineering and Technology	**Second Prize**
Workshop	25.01.2013	Kalpana.V	National	Coimbatore	**Participation**

				Institute of Technology , Coimbatore	
Sports					
Academic Year 2014-2015					
Cricket tournament		Veeramani.J	National	Anna university zonal sports Tournament held at kumaraguru college of technology	**Third**
Academic Year 2012-2013					
Tripple Jump		Padmavathy.N	National	Anna university zonal sports Tournament held at Sri Ramakrishna Engineering College	**Third**
High Jump and Tripple Jump		Padmavathy.N	National	Anna university zonal sports Tournament held at Sri	**First**

				Ramakrishna Engineering College	
4x400m relay		Dharmaraj.N	National	Anna university zonal sports Tournament held at Sri Ramakrishna Engineering College	**First**
4x100m relay		Vijayan.K	National	Anna university zonal sports Tournament held at Sri Ramakrishna Engineering College	**First**
Academic Year 2011-2012					
4x100m relay		Vijayan.K	National	Anna university zonal sports Tournament held at Sri Ramakrishn	**Second**

				a Engineering College	
4x400m relay		Dharmaraj.N	National	Anna university zonal sports Tournament held at Sri Ramakrishna Engineering College	**First**
Hockey		Dharmaraj.N	National	All India South Zone Inter University Hockey Tournament	**Qualified**

23. List of eminent academicians and scientists/ visitors to the department

- Dr.D.Sriram kumar, Asssociate professor, HOD/ECE, National Institute of technology,Tiruchirappalli.
- Dr.V.Lakshmi Prabha,principal ,GCT ,Coimbatore.
- Mr.Solaikutty Dhanabal Academic Program Manager, India &SAARC.
- Mr.Haribabu , general manager BSNL, Coimbatore.
- Dr. R.Vijiyarajeswaran CEO, Vi Microsystems,Chennai.
- Dr.P.T. Vanathi,Professor, PSG Institute of Technology, Coimbatore
- Dr.B.Nataraj Associate professor, Sri Ramakrishna Engineering College,

Coimbatore.

- Dr.N.Sathish Kumar professor and Head Sri Ramakrishna Engineering College, Coimbatore.
- Mr.S.Sundara moorthy, Proprietor, Sunshiv Electronic Solutions, Coimbatore.

24. Seminars/ Conferences/Workshops organized & the source of funding

Date	Title of the program organized (Workshop / Guest Lecture/ Conference / Seminar, FDP etc.)	Name and address of the expert	Sponsoring Agency/ Self-Supporting
21.03.2017	One Day National level Technical Symposium (REFLECHIR 2K17)	Mr.C.Santhakumar Founder and CEO BigBodhi Academy Coimbatore.	ECE Students
23.02.2017 To 25.02.2017	National Workshop on Electronic Circuit Design	Mr.M.Ranjith Kumar Manager R & D Thick India Coimbatore	ECE Students
16.02.2017 To 18.02.2017	National Workshop on Electronic Circuit Design	Mr.M.Ranjith Kumar Manager R & D Thick India Coimbatore	ECE Students
16.09.2016 & 17.09.2016	Two days National Workshop on Mobile Servicing	Mr.M.Ranjith Kumar Manager R & D Thick India Coimbatore	ECE Students
13.08.2016	One Day Workshop on "RASPBERRY PI"	Mr.Marban Manager, Vi Micro Systems, Coimbatore.	ECE Students

10.08.2016 & 11.08.2016	Two days Workshop on PCB Designing	Mr.P.Gowtham Sr.Design Engineer E-CRAFT solution Coimbatore	ECE Students
23.07.2016	Guest lecture on "Integrated Traffic Management System(ITMS)"	Mr.Shyam Jude, Analog and Digital Lab, R.S.Puram, Coimbatore.	Faculty and ECE Students
22.04.2016& 23.04.2016	Faculty Development Programme on "Real Time Embedded system- Backend Tools"	Dr.N.Kumaresan, Associate Professoe, Anna University Regional Centre, Coimbatore.	Faculty
15.03.2016	Inauguration of Robotics Club	Mr.G.Bojabalan Tech Trainer at CTS Chennai	Faculty and ECE Students
14.03.2016	Guest lecture on "Embedded System"	Mr.P.Muthupandi, Founder of VEE Inc.Pvt Ltd, Coimbatore.	Faculty and ECE Students
12.02.2016 & 13.02.2016	Faculty Development Programme on "Image Processing Usinmg LABVIEW"	Mr.S.Muruganandhan, Engineer, Technical Support, Banglore.	Faculty and ECE Students
21.02.2015	National Conference on 'Research issues in Signal /image processing&Communication (NCRISIPC'15)	Dr.Sriramkumar, AssociateProfessor, HOD/ECE, National Institute of technology, Tiruchirappalli.	ECE Students
14.10.2015	Workshop on 'Hands on Training in PCB designing"	Mr.P.Gowtham M.E., (Ph.D) E-Craft solutions, Coimbatore	ECE Students

18.02.2015	Guest Lecture on "Motivation"	Dr.V.Lakshmiprabha., Principal,GCT,Coimbatore	ECE Students
13.08.2014	Guest Lecture on "Wireless Communication"	Dr.N.Sathishkumar, Professor, HOD/ECE,SREC,Coimbatore	ECE Students
13.08.2014	Guest Lecture on "MEMS"	Dr.B.Nataraj, Associate Professor SREC,Coimbatore	ECE Students
02.08.2014	Guest Lecture on "Wireless sensor network"	Dr.P.T.Vanathi, Professor, PSG College of Technology, Coimbatore.	ECE Students
13.08.2014	Guest Lecture on "Wireless OFDM Technology"	Dr.S.P.Vimal ,Associate Professor SREC,Coimbatore	ECE Students
26.09.2013	Seminar on "Industrial Electronics"	Mr.S.Sundaramoorthy Proprietor ,Sunshiv Electronic solutions, Coimbatore	ECE Students
07.09.2011	Seminar on "Telecommunications"	Mr.Haribabu,General manager ,BSNL,Coimbatore	ECE Students

25. Student profile programme/course wise:

Name of the Course/ programme	Batch	Intake	Applications Received	Selected	Enrolled		Pass percentage
					M	F	
BE /ECE	2014-2018	60	#	44	13	31	
	2013-2017	60		45	24	21	
	2012-2016	60		65	24	39	75%
	2011-2015	60		43	26	17	44 %
	2010-2014	60		63	48	15	84%

Applications are received and processed by Anna University and seats are filled through Single Window Counselling and Consortium

26. Diversity of Students

Name of the Course	Batch	Total Strength	% Of Students From the	% Of students From other States (Pondicherry, Kerala, Andra Pradesh)
BE /ECE	2014-2018	47	95.36	4.64
	2013-2017	45	97.7	2.3
	2012-2016	65	95.6	4.4
	2011-2015	43	90.6	9.4
	2010-2014	63	90.47	9.53

27. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc?

Our students are appearing for GATE, TANCET, UPSC, TNPSC exams during the final year.

Year	No. of students applied for GATE Exam	No. of students Applied for TANCET	No. of students admitted for higher studies / Job Placement through GATE/TANCET / Other Exams
2013-2014	2	2	1
2014-2015	3	2	-
2015-2016	2	2	2
2016-2017	2	3	1

28. Student progression

Student progression	Against % enrolled		
	2013-2014	2014-2015	2015-2016
UG to PG	4	1	2
Employed through Campus Selection	62	14	12
Employed Other than Campus Recruitment	3	2	8
Entrepreneurship /Self-employment	2	1	NIL

29. Details of Infrastructural facilities Internet facilities for staff & students

a) Library:

Department Library	
Titles	40
Volumes	255

b) Internet facilities for Staff & Students

Computer systems available in the department are connected with LAN for the benefit of faculty and students wired Internet and WI-FI facility are available in the department.

c) Class rooms with ICT facility.

A class room available in the department is equipped with LCD projector, Wi-Fi facility with high configured computer system.

d) Laboratories

Sl.No	Lab Description	Exclusive Use/Shared	Area in sqm/ capacity	No.of.E xps	No. of students/ Experimental setup
1	Circuits and devices laboratory (EC 6211)	Shared	223.04	13	4
2	Analog and Digital Circuits Laboratory(EC 6311)	Shared	223.04	15	4

3	Circuit and Simulation Integrated Laboratory(EC 6411)	Exclusive	223.04	13	4
4	Linear Integrated Circuit Laboratory(EC 6412)	Shared	223.04	14	4
5	Digital Signal Processing Laboratory(EC 6511)	Exclusive	111.52	15	1
6	Communication Systems Laboratory (Ec6512)	Exclusive	223.04	12	4
7	Microprocessor and Microcontroller Laboratory (EC6513)	Shared	223.04	16	2
8	Computer Networks Laboratory (EC6611)	Exclusive	111.52	12	2
9	VLSI Design Laboratory (EC6612)	Exclusive	111.52	8	1
10	Embedded Laboratory (EC6711)	Exclusive	111.52	11	1
11	Optical and Microwave Laboratory (EC6712)	Exclusive	223.04	11	4
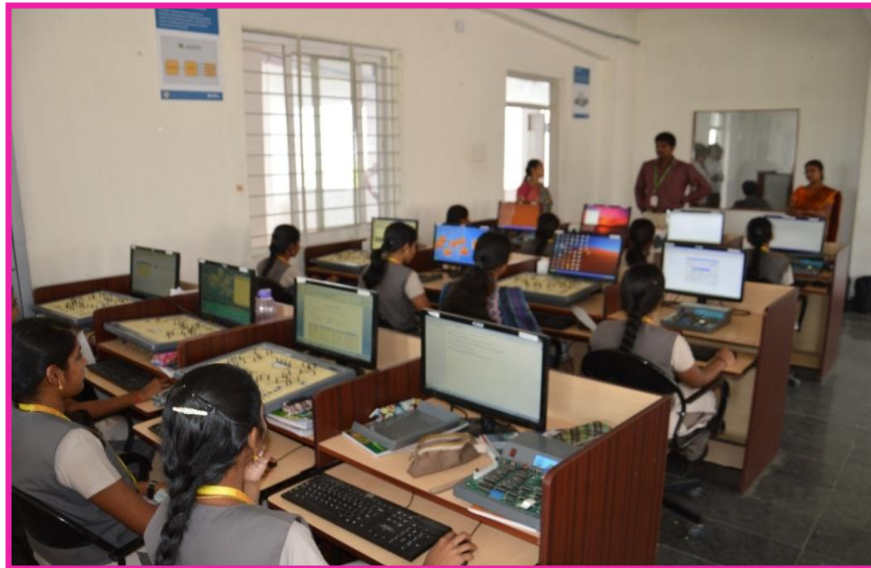
Computer Networks Lab

Electronic circuits Lab

Practical Session of PCB Assembling

Paper Presentation

30. Number of students receiving financial assistance from college,

University, government or other agencies:

Scholarship Details	Number of students				
	2016-17	**2015-16**	**2014-15**	**2013-14**	**2012-13**
Government Agencies	8	10	7	13	4
Management Merit Scholarship	15	12	20	8	6

Scholarship given by the management

31. Details on student enrichment programmes (special lectures

/workshops / seminar) with external experts:

Title of the program	Details of Eminent Resource Person/Scientist
2011-2012	
Seminar on "Telecommunications"	Mr.Haribabu,General manager, BSNL, Coimbatore

2013-2014	
Seminar on "industrial Electronics"	Mr.S.Sundaramoorthy Proprietor, Sunshiv Electronic solutions, Coimbatore
2014-2015	
National Conference on 'Research issues in Signal /image processing&Communication (NCRISIPC'15)	Dr.Sriramkumar, AssociateProfessor, HOD/ECE, National Institute of technology, Tiruchirappalli.
Workshop on 'Hands on Training in PCB designing"	Mr.P.Gowtham M.E., (Ph.D) E-Craft solutions, Coimbatore
Guest Lecturer on "Wireless sensor network"	Dr.P.T.Vanathi, Professor, PSG College of Technology, Coimbatore.
Guest Lecturer on "Motivational Speech"	Dr.V.Lakshmiprabha ,Principal,GCT,Coimbatore
Guest lecturer on "Wireless Communication"	Dr.N.Sathishkumar, Professor, HOD/ECE,SREC,Coimbatore
Guest lecturer on "MEMS"	Dr.B.Nataraj, Associate Professor SREC,Coimbatore
Guest lecturer on "Wireless OFDM Technology"	Dr.S.P.Vimal ,Associate Professor SREC,Coimbatore
2015 - 2016	
One Day Workshop on "RASPBERRY PI"	Manager, Vi Micro Systems, Coimbatore.
Faculty Development Programme on "Real Time Embedded system-Backend Tools"	Dr.N.Kumaresan, Associate Professoe, Anna University Regional Centre,

	Coimbatore.
Guest lecture on "Embedded System"	Mr.P.Muthupandi, Founder of VEE Inc.Pvt Ltd, Coimbatore.
Faculty Development Programme on "Image Processing Usinmg LABVIEW"	Mr.S.Muruganandhan, Engineer, Technical Support,Banglore.
2016-2017	
Guest lecture on "Integrated Traffic Management System(ITMS)"	Mr.Shyam Jude, Analog and Digital Lab, R.S.Puram,Coimbatore.
Guest lecture on Mobile Servicing	Mr.M.Ranjith Kumar., Thick India,Coimbatore

One Day National level Technical Symposium (REFLECHIR 2K17)

Workshop on Electronics circuit design

Inauguration of Robotics Club

Guest lecture on Embedded Systems

Guest lecture on Wireless Communication

Guest lecture on Wireless Sensor Networks

National Conference on 'Research issues in Signal /image processing Communication (NCRISIPC'15)

Inaguration of LabView Academy

ECE Students attended Hands on training in PCB designing

ECE Students attended Hands on training in Mobile Service

32 (a) Teaching methods adopted to improve student learning:

Innovative Teaching Methods /Approaches Adopted
• Power Point Presentation
• NPTEL
• Audio visual Aids
• MIT open courseware

33. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Details of extension activities

Academic year 2014-2015	
S.No	**Activity**
1	Donated things to orphanage students in universal peace foundation near nalla goundampalayam
Academic year 2013-2014	
S.No	**Activity**
1	Free eye camp check up
2	Planted sapling in our college
3	Blood donation camp
Academic year 2011-2012	
S.No	**Activity**
1	National voter's day

(National Voters Day)

Blood Donation Camp at SSEC

Tree Plantation Program at college campus to create an eco green environment

Visit to Universal Peace Foundation (Orphanage)

34. SWOC analysis of the department and Future plans

Strengths	✓ Dedicated &qualified faculty ✓ Innovative and traditional teaching methods ✓ Conduct more revision test system to improve the result ✓ Shrine and nonpolluted environment for the Academic studies ✓ Spontaneous assistance from non-teaching staff for mini projects. ✓ Special lectures and providing study materials. ✓ Arranging special classes for weak students. ✓ Meeting parents with class advisor whenever needed. ✓ Counseling for needy students. ✓ Technical aptitude test for placement. ✓ Placement training (Group discussion, presentation etc.,) for all candidates.
Weakness	✓ Lack of funded projects.

	✓ Lack of publications. ✓ Need to involve more student industry collaborative research projects.
Opportunity	✓ More number of faculty development programs. ✓ Practical knowledge training and hands on training programme. ✓ Students internship. ✓ MOU's with more companies. ✓ To turn our weakness into strength a new and innovative measures can be explored by the management.
Challenges	✓ Lack of students soft skills ✓ Lack of communication skills ✓ High competitive technical field. ✓ Getting funded research projects. ✓ Make industry ready engineers.
Future Plans	✓ To establish more industry collaborative labs. ✓ Consultancy with more partners. ✓ Get approval for research centre.(already applied). ✓ By organizing various programs to upgrade teaching and learning methods. ✓ Plan to increase industry oriented projects. ✓ Plan to arrange a service center for electronic appliances.

EVALUATIVE REPORT OF THE
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. **Name of the department**   : Electrical and Electronics Engineering

2. **Year of Establishment**   : 2010

3.   **Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D.,**
     Integrated Masters; Integrated Ph.D., etc.)

Programme Offered	Nature of Course	Specialization
UG	BE	Electrical and Electronics Engineering

4. **Names of Interdisciplinary courses and the departments/units involved**

Departments Involved	Semester	Interdisciplinary Courses
Science & Humanities	I	HS6151 Technical English–I MA6151 Mathematics–I PH6151 Engineering Physics–I CY6151 Engineering Chemistry–I GE6163 Physics and Chemistry Laboratory– I
	II	HS6251Technical English–II MA6251 Mathematics–II PH6251 Engineering Physics–II CY6251 Engineering Chemistry–II GE6262 Physics and Chemistry Laboratory–II
Science & Humanities	III	MA6351 Transforms and Partial Differential Equations GE6351 Environmental Science and Engineering
	IV	MA6459 Numerical Methods
	V	GE6563 Communication Skills – Laboratory

		Based
Mechanical Engineering	I	GE6152 Engineering Graphics
		GE6162 Engineering Practices Laboratory
	II	GE6251 Basic Civil and Mechanical Engineering
Civil Engineering	II	GE6251 Basic Civil and Mechanical Engineering
Electronics & Communication Engineering	V	EE6502 Microprocessors and Microcontrollers
	VI	EE6602 Embedded Systems
		EE6612 Microprocessors and Microcontrollers Laboratory
Computer Science & Engineering	I	GE6151Computer Programming
		GE6161 Computer Practices Laboratory
	II	GE6263 Computer Programming Laboratory
	IV	CS6456 Object Oriented Programming
		CS6461 Object Oriented Programming Laboratory

5. **Annual/ semester/choice based credit system (programme wise):**

Semester based credit system is followed as per Anna University, Chennai norms for UG Programme.

6. **Participation of the department in the courses offered by other departments:**

Details of the participation of the department in the other departments courses

S.No	Course Name	Department to which the courses handled
SEMESTER I		

S.No	Course Name	Department to which the courses handled
		SEMESTER I
1	GE6162 Engineering Practices Laboratory	Civil Engineering
		Electrical & Electronics Engineering
		Electronics & Communication Engineering
		Mechanical Engineering
		Computer Science & Engineering
		SEMESTER II
2	EE6201 Circuit Theory	Electronics & Communication Engineering
3	GE6252 Basic Electrical and Electronics Engineering	Mechanical Engineering Civil Engineering
		SEMESTER III
4	EE6351 Electric Drives and Controls EE6365 Electrical Engineering Laboratory	Mechanical Engineering
		SEMESTER IV
5	EE6461 Electrical Engineering and control systems Laboratory	Electronics & Communication Engineering

7. Courses in collaboration with other Universities, industries, foreign institutions:

Department has signed MoUs with industries and university to enrich students knowledge to fulfill the industrial need.

Details of MoUs with industries & University

S. No	Name of the Industry / University	Scope of MOU
1	I Square System	I Square Systems provides knowledge about PLC & SCADA and training related to value added programme to students and to support placement
2	Sunshiv Electronics	To give exposure to the students by organising industrial visit and In-plant training.
3	E Craft	E Craft provides knowledge about PCB Design and training related to value added programme to students and to support placement
4	New Technology	To expose the students about mobile and laptop servicing. To train students for Internship training .

Details of collaboration with other industries

Details of Collaborative Activities	Collaborative Organization.(Institution / Corporate)
Students Project	ITC Limited, Coimbatore TTPC, Tuticorin Thermal power station,Mettur
Faculty Training Programme	UTL Technologies, Bangalore
Placement Training	Focus Academy for Career Enhancement (FACE) , Coimbatore
	Key Mind Learning India Private Limited, Coimbatore
	Six Phrase, Coimbatore
Workshop	RaspberryPi - Propulsion Technologies, Coimbatore
	Electronic Circuit Design Workshop – Tenere Technologies, Coimbatore
	Energy Audit and Energy Conservation in Industries - Tenere Technologies and Reliable Solutions, Coimbatore
	Winding Design- E Trainers, Coimbatore
	Mobile and Laptop Servicing- NewTechnology, Coimbatore
Value Added Course	PLC, SCADA
Inplant Training	TNEB-Thudialur Pentagon Switchgear Private Limited-Coimbatore Salzer Electronics LTD-Coimbatore

Industrial Visit	Vikram Surabhai Space Centre-Kerala	
	Hydro Electric Power Plant-Kundah,Ooty	
	ISRO,Trivandrum-Cochin	
	G.D Electricals Equipments- Coimbatore	
	JVS Electronics-Bangalore	
	Vivekananda Electrical Industries Pvt Ltd-Bangalore	
	TNEB,Keeranatham-Coimbatore	
	UTL Technologies-Bangalore	

8. **Details of courses / Programmes discontinued (if any) with reasons:**

NIL

9. **Number of teaching posts**

	Sanctioned	Filled
Professors	1	1
Associate Professors	2	0
Asst. Professors	9	11

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. / M. Phil. etc.):**

Name	Qualification	Designation	Specialization	No of years Experience
Dr. Umaamaheshvari A	ME., Ph.D.,	HOD & Professor	Applied Electronics	16.6
Ms. Maheswari. AVR	M.E.,	Assistant Professor	Power Systems	10.5
Mr. Karthikayan K	M.E.,	Assistant	Power	10.3

		Professor	Electronics & Drives	
Ms.Malarvizhi P	M.E.,	Assistant Professor	Power Electronics & Drives	8.8
Mr.Rajesh N	M.E.,	Assistant Professor	Power Systems	8.6
Ms. Uthayabanu N	M.E.,	Assistant Professor	Power Systems	7
Ms. Arthi. P	M.E.,	Assistant Professor	Power Electronics & Drives	4.7
Mr. Rajesh Kumar C	M.E.,	Assistant Professor	Power Electronics & Drives	2
Mrs. Baghyalakshmi A	M.E.,	Assistant Professor	Energy Engineering	9.3
Mrs. Dheerthi N	M.E.,	Assistant Professor	Embedded Systems	1.2
Ms.Uma Maheswari A	M.E.,	Assistant Professor	Power Systems	7

11. List of senior visiting faculty:

S.No	Name of the faculty	Organization
1	Dr.S.Jagannathan	Dr.NGP Institute of Technology, Coimbatore

12. Percentage of lectures delivered and practical classes handled (programme Wise) by temporary faculty:

As we have sufficient number of faculty members to handle the lectures and practical classes with sufficient experience, we did not require any temporary faculties.

13. Student –Teacher Ratio (Program wise)

UG: B.E in Electrical and Electronics Engineering – 15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Number of Academic support staff: 1

Details of the Academic support staff

S.No	Name of the Academic support staff	Designation
1	K. Bakkiyaraj	DEEE

15. Qualifications of teaching faculty with D. Sc / D.Lit / Ph. D/ M. Phil./ PG:

No. of Faculty with Ph.D Qualification : 01
No. of Faculty with PG Qualification : 11

16. Number of faculty with ongoing projects from a) National b) International and grants received:

Ongoing projects from National & International funding agencies: Nil

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:

Projects are yet to be communicate in the upcoming semesters.

18. Research Centre / facility recognized by the University: Nil

19. Publication:

Details of Faculty Publications in Journal/Conferences

S.No	Author	Journals		Conference		Total no of publications
		N	I	N	I	
1	Dr. Umaamaheshvari A	2	12	2	3	19
2	Mr. Rajesh N	-	1	-	-	1
3	Mr. Karthikayan K	-	3	-	-	3
4	Ms. Uthayabanu N	-	1	-	-	1
5	Ms. Dheerthi N	-	3	-	-	3

N-National

I-International

20. Areas of consultancy and income generated:* NIL

21. Faculty as members in

a) National Committees

b) International Committees

c) Editorial boards.

S.No.	Name of the Faculty	Members in Professional Bodies		Membership ID
		National	**International**	
1	Dr. Umaamaheshvari A	ISTE	-	LM 66670
2	Ms. Maheswari AVR	ISTE	-	LM 39126
3	Mr. Karthikayan K	ISTE	IAENG	LM 76072, 183665
4	Ms. Malarvizhi P	-	IAENG	184251
5	Ms. Uthayabanu N	-	IAENG	140808
6	Ms. Baghyalakshmi A	-	IAENG	184253
7	Ms. Arthi P	-	IAENG	184254
8	Ms. Dheerthi N	-	IAENG	162893

Dr. A. Umaamaheshvari:

1. Reviewer for Information Technology Research Journal
2. Reviewer for Science Asia Journal
3. Reviewer for Journal of Intelligent and Fuzzy Systems
4. Reviewer for Journal of Medical Imaging and Health Informatics
5. British Journal of Medicine and Medical Research

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme:

S.No	Academic Year	Percentage
1	2010-2014(UG)	100%
2	2011-2015(UG)	66.67%

| 3 | 2012-2016(UG) | 100% |
| 4 | 2013-2017(UG) | NIL |

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

S.No	Academic Year	Percentage
1	2010-2014(UG)	NIL
2	2011-2015(UG)	33.33%
3	2012-2016(UG)	NIL
4	2013-2017(UG)	100%

23. Awards/ Recognitions received by faculty and students :

Faculty Awards: Nil

Students Awards:

Name of the Event	Date/ Academic Year	Name of the Student	National /zonal	Host College	Achievement
Paper Presentation	13.09.13	K.Kaliraja R.Soma Sundaram	National	J.K.K.Munirajah College of Technology, Erode	3rd Prize
Paper Presentation	13.09.13	S.C.Shree haree P.Venkadeshan N.Vinoth	National	J.K.K.Munirajah College of Technology, Erode	2nd Prize

Paper Presentation	13.09.13	P.Nivetha S.Kavi mozhi	National	J.K.K.Munirajah College of Technology, Erode	2nd Prize
Spot Event	31.08.13	S.C. Shree haree R. Aravinth	National	Ranganathan Engineering College, Coimbatore	1st Prize
Spot Event	31.08.13	S.C. Shree haree M. Mooventhan S. Suresh	National	Ranganathan Engineering College, Coimbatore	1st Prize
Spot Event	05.07.13	S.Senthil Kumar	National	SNS College of Engineering, Coimbatore	1st Prize
Spot Event	05.07.13	S. Senthil kumar A. Iyyappan	National	SNS College of Engineering, Coimbatore	2nd Prize
Spot Event	15.02.13 to 16.02.13	R. Ranjithkumar S. Senthil kumar	National	Dr.N.G.P. Insitute of Technology, Coimbatore	2nd Prize
Spot event	04.01.12	R. Prabhu	National	Ranganathan Engineering College, Coimbatore	1st Prize
10 km and 20km	2011-2012	S. Aswanth Paul	National	Sri Ramakrishna Engineering College,	2nd Prize

				Coimbatore	
Javelin Throw	2011-2012	R. Dhivagar	National	Sri Ramakrishna Engineering College	3rd Prize
10 km and 20km	2012-2013	S. Aswanth Paul	National	Sri Ramakrishna Engineering College, Coimbatore	2nd Prize
Heptathl on	2012-2013	N. Sridevi	National	Sri Ramakrishna Engineering College, Coimbatore	1st Prize
Javelin Throw	2012-2013	N.Sridevi	National	Sri Ramakrishna Engineering College, Coimbatore	3rd Prize

24. List of eminent academicians and scientists/ visitors to the department

- Dr. Ashok , PSG College of Technology, Coimbatore
- Dr.Rajesh Thambi, Scientist "E" DRDO, Cochin
- Mr. V.Shanmuga, Assistant Executive Engineer (TNEB)-Theni
- Dr.S.Jagananthan, Associate Professor, Dr.NGP Institute of Technology, Coimbatore
- Mr.Joseph PrayBell,ITC,Coimbatore
- Dr.Subramanian, Associate Professor, Department of ECE, Rathinam College of Engineering, Coimbatore.
- Dr. S. Elangovan, Jansons Institute of Technology, Coimbatore.
- Dr. Geetha, Professor, Dept of EEE, GCT, Coimbatore.

25. Seminars/ Conferences/Workshops organized & the source of funding

Date	Title of the program organized (Workshop / Guest Lecture/ Conference / Seminar, FDP etc.)	Name and address of the expert	Sponsoring Agency/ Self-Supporting
28/08/2014	Guest Lecture on Transmission and Distribution	Mr.V.Shanmuga Assistant Executive Engineer(TNEB), Theni District.	EEE Students
10/9/2014	Guest Lecture on Power Systems Operations & Control	Dr.S.Jagananthan,Assocative Professor, Dr.NGP Institute of Technology, Coimbatore	EEE Students
10/10/2014	One day National Level Technical Symposium	Dr.Rajesh Thambi Scientist "E" DRDO,Cochin.	EEE Students
25/02/2015	RaspberryPi one day National Level Workshop	Mr.SathishKumar, Propulsion Technologies, Coimbatore	EEE Students
20/07/2015	One Day Workshop On Electronic Circuit Design	Mr. N. KrishnaPrakash, Tenere Technologies, Coimbatore.	EEE Students
21/08/2015	Guest Lecture on Renewable Energy	Er.R.M.Ramanujam CEO-Super LED & Hi-energy Systems, Coimbatore	EEE Students

02/04/2016	National Conference on Innovative Trends in Engineering & Sciences-2016	Mr. Joseph PrayBell, ITC, Coimbatore	EEE Students
15/09/2016 & 16/09/2016	Two days Workshop on Energy Auditing	Mr. M. Rameshkumar from Reliable Solutions, Coimbatore	EEE Students
27/9/2016	One day Workshop on Winding Design	E Trainers, Coimbatore	EEE Students
31/1/2017	Guest Lecture on Electrical Machines	GD Electricals, Coimbatore	EEE Students
1/2/2017 & 2/2/2017	Workshop on Mobile Servicing	Mr. B. KrishnaKumar Director New Technology, Coimbatore	EEE Students
3/2/2017	Guest Lecture on Book Engineering to Product Engineering	Mr.S.Sundaramoorthy Managing Director, Sunshiv Electronic Solutions, Coimbatore	EEE Students

26. Student profile programme/course wise:

Name of the Course/ programme	Batch	Intake	Applications Received	Selected	Enrolled		Pass Percentage
					M	F	
BE /EEE	2015-2019	60+12	#	36	25	11	23.07
	2014-2018	60+12		33	21	12	37.74
	2013-2017	60+12		26	21	5	15.38
	2012-2016	60+12		30	25	5	13.33
	2011-2015	60+12		38	37	1	15.78
	2010-2014	60+12		54	47	7	70.37

Applications are received and processed by Anna University and seats are filled through Single Window Counseling and Consortium

27. Diversity of Students

Name of the Course	Batch	Total Strength	% Of Students From the Same state	% Of students From other States (Pondicherry, Kerala, Andra Pradesh)
BE /EEE	2015-2019	36	100	NIL
	2014-2018	31	93.54	6.45
	2013-2017	25	92.31	7.69
	2012-2016	30	96.67	3.33
	2011-2015	38	97.37	2.63
	2010-2014	54	94.45	5.55

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc?

Our students are appearing for GATE, TANCET, UPSC, TNPSC exams during the final year.

Year	No. of students applied for GATE Exam	No. of students Applied for TANCET	No. of students admitted for higher studies / Job Placement through GATE/TANCET / Other Exams
2013-2014	NIL	2	2

2014-2015	NIL	NIL	NIL
2015-2016	NIL	2	2
2016-2017	1	NIL	1

29. Student progression

Student progression	Against % enrolled		
	2013-2014	2014-2015	2015-2016
UG to PG	3.70	NIL	6.66
Employed through Campus Selection	66.67	13.51	40.0
Employed Other than Campus Recruitment	9.25	NIL	16.67
Entrepreneurship / Self-employment	1.85	51.35	NIL

30. Details of Infrastructural facilities Internet facilities for staff & students a) Library:

Central Library - Electrical & Electronics Engineering	
Titles	281
Volumes	81
National Journals	6
International Journals	6
E-Journal	60

Department Library	
Titles	253
Volumes	318

b) Internet facilities for Staff & Students

- A separate Internet center is functioning in the College for the benefit of students and faculty.

- Department Computer Systems are connected with LAN Wired Internet and Wi-Fi facility is available in the department for the benefit of faculty and students.

S.No	Description	Number of rooms
1	Computer	39
2	Computer with internet facilities	39
3	Printers	1

c) Class rooms with ICT facility.

- Class rooms are equipped with LCD, Wi-Fi facility with high configured Computer Systems.

S.No	Description	Number of rooms
1	Class room with board	3
2	Class room with projector	2
3	Class room with ICT facilities	2

d) Laboratories

- The Department of Electrical & Electronics Engineering has well equipped laboratories such as:

S.No.	Lab Name	Major Equipment Names	Amount (Rs)
1	Electrical Machines Laboratory	D.C Shunt Motor(5 HP,230v,1500rpm) Coupled to Alternator 3KVA	
		DC Shunt Motor(5 hp,230v,1500rpm) Coupled to DC Series generator 2.2 KW	
		D.C Shunt Motor(5 hp,230v,1500rpm) Coupled to Alternator 3KVA, 3 phase(non salient pole rotating armature type)	
		Squirrel Cage Induction Motor (5hp,3 phase) with brake loading arrangement and manual star/delta starter	
		Slip Ring Induction Motor(3 hp, 3phase) with brake loading arrangement and rotor resistance starter	
		Squirrel Cage Induction Motor (1hp,1 phase) with brake loading arrangement and DOL starter	
		Synchronous motor(3 hp, 3 phase) with brake loading arrangement and static exciter	
		Transformer (1phase,1kva) tapings on both primary and secondary side mounted in a powder coated sheet steel enclosure with educational type terminal board	
		Transformer (3phase,3kva) in a a powder coated sheet steel enclosure with educational type terminal board	
		D.C Shunt Motor (5HP,230V,1500rpm)	

		coupled to compound generator (2.2KW,230V) on a common fabricated channel iron base frame with flexible coupling and a 3 point starter	
		D.C shunt motor (5HP,230V,1500rpm) coupled to dc shunt generator (2.2KW,230V) on a common fabricated channel iron base frame with flexible coupling and a 3 point starter	22,50,015.00
		D.C compound motor (3 HP,230 V) with brake loading arrangement and 4 point starter	
		D.C shiunt motor (3 HP,230 V) with brake loading arrangement and 3 point starter	
		D.C series motor (3 HP,230 V) with brake loading arrangement and 2 point starter	
		D.C rectifier unit	
		Variable inductive load (3Phase)	
		Auto transformer(3 Phase AND 1 Phase)	
		Single element LPF wattmeters	
		Single element UPF watt meters	
2		VI and switching characteristics of SCR	6,15,437.00

	Power Electronics & Drives Laboratory	VI and switching characteristics of MOSFET	
		VI and switching characteristics of TRIAC	
		VI and switching characteristics of SCR and IGBT	
		Single phase and three phase half controlled rectifier	
		Single phase and three phase fully controlled rectifier	
		Step up and step down choppers	
		Single phase IGBT converter	
		Resonant dc-dc converter	
		Voltage and current commutated chopper	
		SCR and TRIAC based single phase ac phase controller along with lamp or rheostat load	
		Three phase IGBT inverter	
		Isolation module	
3	Control & Instrumentation Laboratory	Transfer Function of DC Servo Motor	
		Analog Simulation Kit	
		DC position Control Kit	
		AC position Control Kit	
		Lead and Lag Compensator Kit	
		AC Servomotor Kit	
		AC Synchro Transmitter and Receiver Kit	
		Strain Gauge Kit	

		Optical Sensor Kit	
		Flow Measurement Trainer Kit	5,10,529.00
4	Engineering Practices Laboratory & Electrical Circuits Laboratory	Digital trainer kit	7,49,200.00
		AutoTransformer	
		Energy meter	
		Restitive load	
		Inductive Load	
		Capacitive Load	
		Power Factor	
		Three Phase Voltmeter	
		Three Phase Ammeter	
		Linear Trainer Kit	
		Cathode Ray Oscilloscope	
		Megger	
		Single phase power supply trainer kit	
		Three phase power supply trainer kit	
		Digital Signal Oscilloscope	
		Lamp Load	
		Single Phase Voltmeter	
		Single Phase Ammeter	
		Restitive load	
		Inductive Load	
		Capacitive Load	
		PSCIPIE Simulation Software	
6	PLC & SCADA Laboratory	PLC Training Module	3,34,700.00
TOTAL			**44,59,881.00**
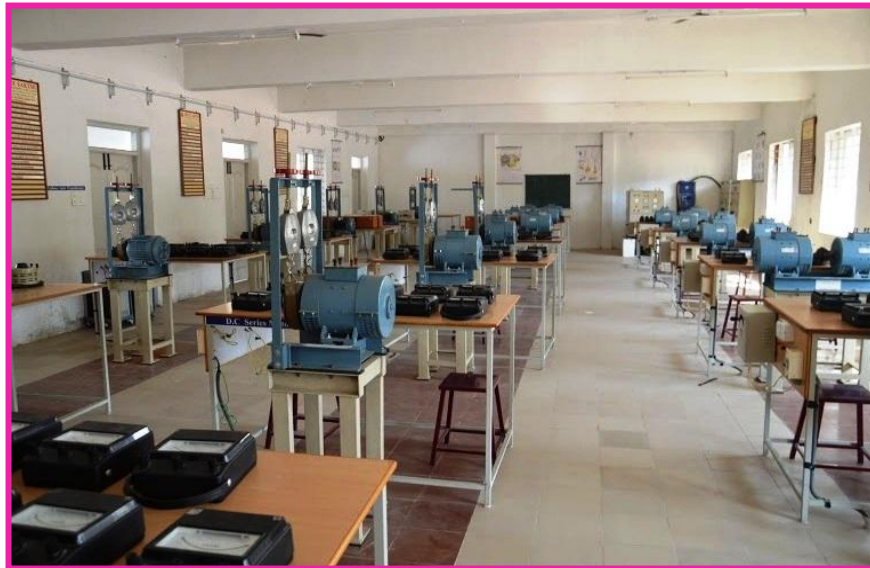
Electrical Machines Laboratory

Control Systems Laboratory

Measurement and Instrumentation Laboratory
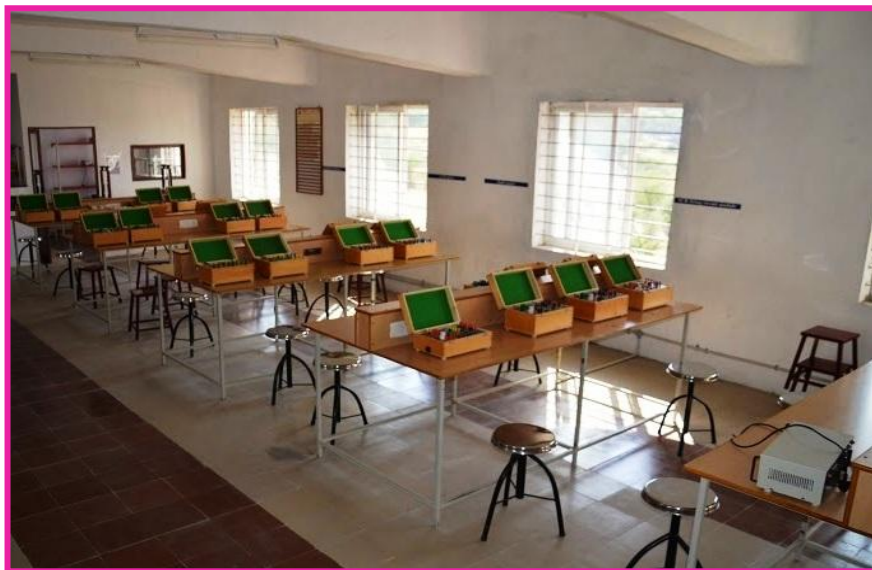
Power Electronics and Drives Laboratory

Power System Simulation Laboratory
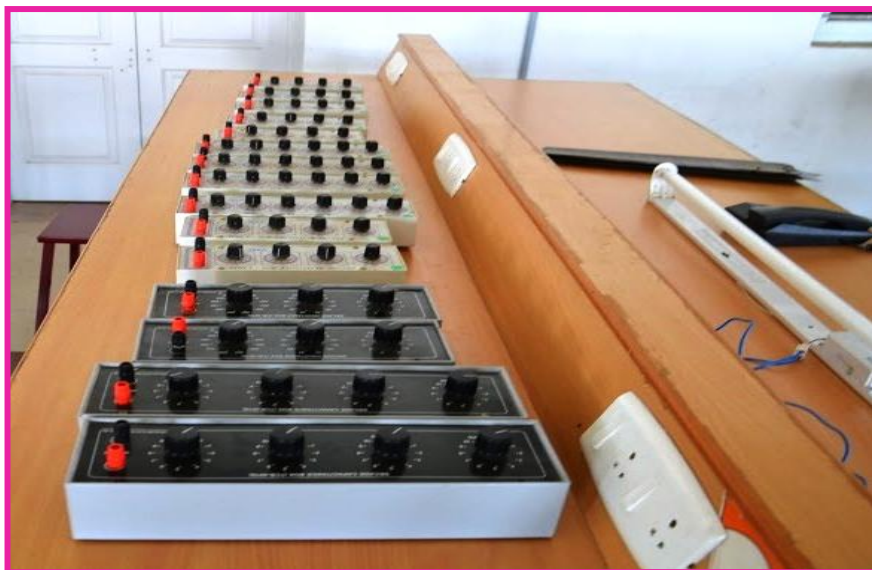
Electric Circuits Laboratory

Engineering Practice Laboratory

The department of Electrical & Electronics Engineering has the following licensed software:

S.No.	Type of Software	Details
1	**System Software**	Windows 7 Professional
2	**Application Software**	Office 2007 SP 3 (for office 2007 suites & applications) MATLAB C++ Compiler

31. Number of students receiving financial assistance from college, University, government or other agencies:

Scholarship Details	Number of students			
	2015-16	**2014-15**	**2013-14**	**2012-13**
Government Agencies	16	19	13	19
Management Merit Scholarship	20	12	12	2

32. Details on student enrichment programmes (special lectures /workshops / seminar) with external experts:

Title of the program	Details of Eminent Resource Person
Value Added Program on PLC and SCADA	Prolific Systems & Technologies Pvt . Ltd. Coimbatore
Value Added Program on PLC and SCADA	Sunrise Automation and Solutions, Coimbatore.
Guest Lecture on Power Systems Operations & Control	Dr.S.Jagananthan,Assocative Professor, Dr.NGP Institute of Technology
Guest Lecture on Transmission and Distribution	Mr.V.Shanmuga Assistant Executive Engineer(TNEB), Theni District.

One day National Level Technical Symposium	Dr.Rajesh Thambi Scientist "E" DRDO, Cochin.
One day workshop on Electronic Circuit Design	Mr.N.KrishnaPrakash, Tenere Technologies, Coimbatore.
Guest Lecture on Renewable Energy	Er.R.M.Ramanujam CEO-Super LED & Hi-energy Systems, Coimbatore
RaspberryPi One day National Level Workshop	Mr.SathishKumar, Propulsion Technologies, Coimbatore
Two days workshop on Energy Auditing	Mr. M. Rameshkumar from Reliable Solutions, Coimbatore
National conference on Innovative trends in Engineering & Sciences-2016	Mr.Joseph PrayBell, ITC, Coimbatore
One day workshop on Winding Design	E Trainers, Coimbatore
Guest Lecture on Electrical Machines	GD Electricals, Coimbatore
Workshop on Mobile Servicing	Mr.B.KrishnaKumar Director , New Technology,Coimbatore
Guest Lecture on Book Engineering To Product Engineering	Mr.S.Sundaramoorthy Managing Director,Sunshiv Electronic Solutions, Coimbatore .

National Level Workshop on RaspberryPi

One Day Workshop on Electronic Circuit Design

National Level Technical Symposium Dakshata'15

EEE Department Association Inaugural

33 Teaching methods adopted to improve student learning:

Innovative teaching methods/ approaches Adopted
• Activities based learning
• ICT Based Teaching
• Mini projects
• NPTEL
• Power Point Presentation
• Online test
• Seminars

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

YEAR	NAME OF THE PROJECT	INDUSTRIAL /SOCIAL RELEVANCE
2015	Multi Motors Control System using Two Wires for Electricity Generating Station	Power System
2015	An Efficient Interleaved Converter Based PV-DVR for Improving Voltage Quality	Power Quality
2015	Zeta Converter fed BLDC Motor using Power Factor Correction for Low Power Application	Power Electronics

35. SWOC analysis of the department and Future plans

Strengths	• Experienced and well qualified faculty members. • Adoption of innovative teaching methodologies for enhancing students understanding level. • Industrial Practical Knowledge Training / Work along with Programmes in relevant industries. • Excellent Placement record –100% eligible students get placed every year in leading companies. • Encourages student participation in Technical Seminars, Workshops, Symposiums and Conferences • Recognizes and appreciates top academic performers in each class in the Internal Evaluations & University exams.
Weakness	• Not having PG Course in Electrical & Electronics Engineering. • R & D proposals are submitted. • Consultancy activities need to be improved. • Less number of faculty members with Ph.D
Opportunity	• To seek research grants from Industry-Institute collaboration. • Scope for multi-disciplinary research.
Challenges	• Students from rural areas with economically poor background. • Securing 100% placement for students • Emphasis on more University Ranks.
Future Plans	• To start PG course Research Laboratory facility on particular specialization.

EVALUATIVE REPORT OF THE
DEPARTMENT OF MECHANICAL ENGINEERING

1. **Name of the department**   : Mechanical Engineering

2. **Year of Establishment**   : 2010

3.   **Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

Programme Offered	Nature of Course	Specialization
UG	BE	Mechanical Engineering

4. **Names of Interdisciplinary courses and the departments/units involved**

Departments Involved	Semester	Interdisciplinary Courses
Science & Humanities	I	HS6151 Technical English – I MA6151 Mathematics – I PH6151 Engineering Physics – I CY6151 Engineering Chemistry – I GE6163 Physics and Chemistry Laboratory – I
	II	HS6251Technical English – II MA6251 Mathematics – II PH6251 Engineering Physics – II CY6251 Engineering Chemistry – II GE6262 Physics and Chemistry Laboratory – II
Science & Humanities	III	MA6351 Transforms and Partial Differential Equations
	IV	GE6351 Environmental Science and Engineering MA6452 Statistics and Numerical Methods

	VI	GE6563 Communication Skills - Laboratory Based
Computer Science and Engineering	I	GE6151 Computer Programming
		GE6161 Computer Practices Laboratory
Electrical and Electronics Engineering	I	GE6162 Engineering Practices Laboratory
	III	EE6351 Electrical Drives and Controls
		EE6365 Electrical Engineering Laboratory

5. **Annual/ semester/choice based credit system (programme wise):**

Semester based credit system is followed as per Anna University, Chennai norms for UG Programme.

6. **Participation of the department in the courses offered by other departments:**

Details of the participation of the department in the other departments courses

S.No	Course Name	Department to which the courses handled
SEMESTER I		
1	GE6152 Engineering Graphics	Civil Engineering
		Electrical & Electronics Engineering
		Electronics & communication Engineering
		Computer Science and Engineering
2	GE6162 Engineering Practices Laboratory	Civil Engineering
		Electrical & Electronics Engineering
		Electronics & communication Engineering
		Computer Science and

		Engineering
SEMESTER II		
3	GE6253 Engineering Mechanics	Civil Engineering
4	GE6261 Computer Aided Drafting and Modeling Laboratory	Civil Engineering
5	GE6251 Basic Civil and Mechanical Engineering	Electrical & Electronics Engineering

7. Courses in collaboration with other Universities, industries, foreign institutions:

Department has signed MoUs with industries and university to enrich students knowledge to fulfill the industrial need.

Details of MoUs with Industries & University

S. No	Name of the Industry / University	Scope of MoU
1	Sree Sakthi Eqiupment Company Ltd.	To enhance fundamental knowledge and concepts of foundry technology and fabrication technology.
2	Fluidics PVT Ltd	Faculty training, Technical presentation and discussions, doing projects in their company.
3	Pradeep foundry services	To enhance fundamental knowledge and concepts of manufacturing of amine cores for foundries.
4	Lakshmi Pumps and Engineering	To enhance fundamental knowledge and concepts of manufacturing pumps and motors.
5	Akshaya Automations	Conduct seminars & workshop, technical lecturers
6	GTN Engineering	To train students at their site to enhance their

	(INDIA) LTD	knowledge and they allowed to do the projects
7	Trident Pneumatics PVT LTD, Coimbatore	To do projects in their company and to provide testing and fabrication facilities for research scholars.
8	Mansco fluidtek PVT Ltd	Faculty training, Technical presentation and discussions.
9	A+ CADD Centre	To improve skill set of the students in CAD/CAM software.
10	Madhan Industries	To enhance fundamental knowledge of machining and concepts of manufacturing of patterns for foundries.

Detail of collaboration with other industries

Details of Collaborative Activities	Collaborative Organization. (Institution / Corporate)
Students Project	1.Sree Sakthi Eqiupment Company Ltd, Coimbatore, 2.GTN Engineering (INDIA) LTD, Coimbatore 3. Trident Pneumatics PVT LTD, Coimbatore 4. Pradeep foundry Services
Faculty Training Programme	Sree Sakthi Equipment Company Ltd , Coimbatore
Placement Training	FACE
	Key mind Learning India Private Limited
	Six Phrase
	Global

Value Added Course	A+ CADD Centre, Coimbatore.
	Y Not Engineers, Coimbatore.

8. Details of courses / Programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts

	Sanctioned	Filled
Professors	2	3
Associate Professors	4	0
Assistant Professors	30	29

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. / M. Phil. Etc.):

Name	Qualification	Designation	Specialization	No of Years of Experience
Dr.Rajendran.M	M.E., Ph.D.	Director (Research and Academic) and Professor	Production Engineering	30
Dr.Velmurugan.V	M.E., Ph.D.	Principal and Professor	Thermal Engineering	25
Dr.Mahesh.G	M.E., Ph.D.	Professor	Production	15

		and Head	Engineering	
Mr. Ramnath. M.D	M.E.,(Ph.D.)	Assistant Professor	Production Engineering	16
Mr. Arumugam.R	M.E.	Assistant Professor	Engineering Design	11
Mr. Chandrasekar.M	M.E.,(Ph.D.)	Assistant Professor	Industrial Engineering	20
Mr. Varadharaj.P	M.E.	Assistant Professor	Product Design and Development Engineering	7
Mr. Kamban.S	M.E.	Assistant Professor	Engineering Design	6
Mr. Gnanasekar. R	M.E.	Assistant Professor	Engineering Design	3
Mr. Arul.N	M.E.,(Ph.D.)	Assistant Professor	Engineering Design	3
Mr. Karthick.S	M.E.	Assistant Professor	Engineering Design	3
Mr. Sathishkumar.K	M.E.	Assistant Professor	Engineering Design	2
Mr. Premkumar.M	M.E.	Assistant Professor	Engineering Design	3
Mr. Senthilvelan.S	M.E.,(Ph.D.)	Assistant Professor	CAD/CAM	2
Mr. Pugalenzhthi.T	M.E.	Assistant Professor	Production Engineering	2
Mr. Ramesh.P	M.E.,(Ph.D.)	Assistant Professor	Engineering Design	1
Mr. Logesh.B	M.E.	Assistant	CAD/CAM	6 months

		Professor		
Mr. Manickaraj.K.M	M.E.	Assistant Professor	Thermal Engineering	6 months
Mr. Agnish.N	M.E.	Assistant Professor	Thermal Engineering	6 months
Mr. Pradeep.S	M.E.,(Ph.D.)	Assistant Professor	Manufacturing Engineering	6 months
Mr. Boovendravarman. S	M.E.	Assistant Professor	Computer Aided Design	6 months
Mr. Umar Farook.A	M.E.	Assistant Professor	CAD/CAM	2 Years 6 months
Mr. Panneer Selvam. P	M.E.	Assistant Professor	Advanced Manufacturing Technology	6 months
Mr.Sakthiprakash.K	M.E.	Assistant Professor	Manufacturing Engineering	6 months
Mr. Sanjith. L.R	M.E.	Assistant Professor	Energy Engineering	6 months
Mr. Mahesh Kumar. C	M.E.	Assistant Professor	CAD/CAM	6 months
Mr. Sureshkumar. M	M.E.	Assistant Professor	Engineering Design	6 months
Mr.Aneeshkumar.M	M.E.	Assistant Professor	Advanced Manufacturing	6 months

			Technology	
Mr.Saravanakumar.P	M.E.	Assistant Professor	Engineering Design	6 months
Mr. Senthilraj. S	M.E.	Assistant Professor	Engineering Design	6 months
Mr.Prabakaran.S	M.E.	Assistant Professor	Thermal Engineering	6 months
Mr. Vijin Prabhu. A	M.E.	Assistant Professor	Thermal Engineering	6 months

11. List of senior visiting faculty:

S.No	Name of the Faculty	Organization
1	Dr.S.Muthu	Suguna Engineering College, Coimbatore
2	Dr.S.R.Devadasan	PSG College of Technology, Coimbatore

12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty   :   Nil

13. Student -Teacher Ratio (Programme wise)

UG: B.E in Mechanical Engineering – 16.875:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Number of Academic support staff: 5

Details of the Academic support staff

S.No	Name of the Academic support staff	Designation
1	Mr. Karthiyaraj.M	Lab Technician
2	Mr. Manokaran.M	Lab Technician
3	Mr. Mahesh Kumar.T	Lab Technician
4	Mr. Parthasarthy.V	Lab Technician
5	Mr. Jebin.G	Lab Technician

15. Qualifications of teaching faculty with D. Sc / D.Lit / Ph. D/ M. Phil./ PG:

S. No	Qualification	Number of Faculty
1	Ph.D.	3
2	Ph.D. (Pursuing)	6
3	M.E./M.Tech.	28

16. Number of faculty with ongoing projects from a) National b) International and grants received: 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:

Name of the Laboratory	List of Major equipment / Software	Major areas of research
Thermal Lab	Multi Cylinder Petrol	Evaluation of

	Engine Diesel Engines with Mechanical, Hydraulic and Electrical Loads Diesel Engine with DAQ	Performance Characteristics of IC Engines
Heat Transfer Lab	Refrigerator Test Rig. Air-Conditioning Test Rig	Performance Evaluation of Refrigeration & Air Conditioning
CAD/CAM Lab	ANSYS 8.1 Software, CREO Software, Solid Works CNC Turning Center , CNC Milling Center	Simulation and Analysis of Thermal and Structural Systems, Fabrication of Components
Dynamics Lab	Gyroscopic couple , Governors, Balancing of Reciprocating Masses and Spring Mass System	Vibration Analysis
Mechatronics Lab	Hydraulic Trainer Kit, Computerized Data Logging System, Pneumatic Trainer Kit with PLC, Microcontroller Trainer Kit with Stepper Motor Interface and Servo Controller Interfacing for DC Motor.	Simulation and Analysis of Hydraulics and Pneumatics System

Manufacturing Technology Lab	Gear Hobbing Machine, Center Lathe, Capstan Lathe, Slotting Machine, Cylindrical Grinding Machine, Surface Grinding Machine, Radial Drilling Machine, Vertical Milling Machine and Horizontal Milling Machine	Fabrication of Components
Metrology and Measurement Lab	Tool Dynamometer	Measuring the Nomenclature of Different Machine Components

19. Publication: Details of Faculty Publications in Journal/Conferences

S.No	Faculty Name	Number of Journals	
		International	**National**
1.	Dr.M.Rajendran	28	2
2.	Dr.V.Velmurugan	32	1
3.	Dr.G.Mahesh	14	
4.	Mr.M.Prem kumar	1	
5.	Mr.B.Logesh	2	
6.	Mr.M.Chandrasekar	1	
7.	Mr.K.Sathishkumar	1	
8.	Mr.P.Ramesh	2	
9.	Mr.K.M.Manickaraj	1	
10	Mr.N.Agnish	1	

Details of Student Publications in Conferences

Name of the Students	Title of the Research Paper	Name of the Conference	Year
Sakthivel T Dhinakaran R Pradheep R Kumaresan M	Design and Fabrication of Ploughing Machine with Seed Sowing machine	Modern Trends in Mechanical Engineering	2016
Sasikumar G Pradeep kumar S Saravanan Sankar ganesh	Automatic Cashew Nutshell Cutting Machine	Modern Trends in Mechanical Engineering	2016
Sampath kumar P	Chemiformatics Method of Predicting the Biological Activity of Phytochemical Based on Their Structure	National Conference on Developing Scenario in Applied Sciences and Communicative English	2012
Dayanand S	Predictivity The Biological Activity of Compound Based on Phaspatose Activity	Recent Development in Environmental Pollution and Nano Technology	2012

20. Areas of consultancy and income generated:

S. No	Details of Consultancy	Beneficiary	Period	Resource Persons	Revenue Generated (Rs.)
1	Machining of 1 Ton SBM Door Pin (16 Nos.)	Sree Sakthi Equipment Company	Feb 2017	Mr.Manokaran.M	16x100 = 1600
2	Machining of Door Bush Auto (32 Nos.)	Sree Sakthi Equipment Company	Feb 2017	Mr.Manokaran.M	32x80 = 2560
3	Machining of 300 SBM Dust collector (10 Nos.)	Sree Sakthi Equipment Company	Feb 2017	Mr.Manokaran.M	10x41=410
4	Machining of 5/8 x 1mtr Door pin Bush (10 Nos.)	Sree Sakthi Equipment Company	Feb 2017	Mr.Manokaran.M	10x10=1000

21. Faculty as members in a) National Committees b) International Committees

C) Editorial boards.

a) National Committees

S. No.	Name of the Faculty	Society Name	Registration No.
1	Dr.M.Rajendran	ISTE	LM 8918
2	Dr.V.Velmurugan	ISTE	LM37295
3	Dr.G.Mahesh	ISTE	LM114789
		ISRD	F3140900290

4	Mr.M.D.Ramnath	ISTE	LM39138
5	Mr.M.Chandrasekar	ISTE	LM40287
6	Mr.R.Arumugam	ISTE	LM74573
		ISRD	M4150901788
7	Mr.P.Varadharaj	ISTE	LM114790
8	Mr.R.Gnanasekar	ISTE	LM114791
9	Mr.S.Kamban	ISTE	LM82416
		ISRD	M4150902080
10	Mr.N.Arul	ISTE	LM114793
		ISRD	M4150901792
11	Mr.M.Premkumar	ISTE	LM114794
		ISRD	M4150902203
12	Mr.S.Karthick	ISTE	LM114795
		ISRD	M4150901931
13	Mr.K.Sathishkumar	ISTE	LM114799
14	Mr.P.Ramesh	ISTE	LM114792
15	Mr.T.Pugazhendhi	ISTE	LM114796
16	Mr.K.M.Manickaraj	ISTE	LM114797
		ISRD	M4150901787
17	Mr.B.Logesh	ISTE	LM114798
		ISRD	M4150901789
18	Mr.N.Agnish	ISRD	M4150901939
19	Mr.S.Pradeep	ISRD	M4150902184

b) International Committees: Nil

c) Editorial Boards:

S.No	Name of Faculty	Name of the Journal
1.	Dr.G.Mahesh	Reviewer - Arabian Journal for Science and Engineering

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme:

S.No	Academic Year	Percentage
1	2010-2014(UG)	90%
2	2011-2015(UG)	70%
3	2012-2016(UG)	80%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

S.No	Academic Year	Percentage
1	2010-2014(UG)	10%
2	2011-2015(UG)	30%
3	2012-2016(UG)	20%

23. Awards/ Recognitions received by faculty and students

Recognitions/ Awards received by faculty

S. No	Faculty Name	Awards
1	P.Varadharaj	Cash award for high percentage result
2	M.D.Ramnath	Award for high percentage result
3	N.Arul	Award for high percentage result
4	M.Premkumar	Award for high percentage result
5	B.Logesh	Award for high percentage result

Faculty Award for high percentage result

Faculty Award for high percentage result

Student's awards

The following students have received cash prizes for their academic performance

S. No	Student Name	Awards
1	Sahaya Moralus	Outstanding student of the Department (2010-14)
2	Harikrishnan.S	Outstanding student of the Department (2011-15)
3	Kamalesh Krishna.D	Outstanding student of the Department (2012-16)
4	Ragupathy S	Proficiency award (2010-14)
5	Sudheesh P T	Proficiency award (2010-14)
6	Sumesh PT	Proficiency award (2010-14)
7	Ranjith Kumar S	Proficiency award (2011-15)
8	Karthikeyan A.K	Proficiency award (2011-15)
9	Gurumoorthy B	Proficiency award (2012-16)
10	Manish N	Proficiency award (2012-16)
11	Gibbson Manoj M	Proficiency award (2013-17)
12	Murugesh N	Proficiency award (2013-17)
13	Srinivasan K	Proficiency award (2013-17)

Outstanding student of the Department Awards

Outstanding student of the Department Awards

The following students have participated and achieved in extracurricular activities

Name of the Event	Date	Name of the Student	National / Zonal	Host College	Achievement
Technical Quiz	26-07-2013	Pradeep S Arun Sebastin A	National	KSR College of Engineering	Third Prize
Athletic 20 km running	01-11-2014 to 03-11-2014	Kamalahasan C	Zonal	PSNA College of Engineering and Technology	First Prize
Athletic 10000m running	01-11-2014 to 03-11-2014	Kamalahasan C	Zonal	PSNA College of Engineering and Technology	First Prize
Football	03-09-2014 to 05-09-2014	Senthilkumar.R, Mohamed Rashid, P, Sanjai KB, Aneesh VM, Vinoth samuel K, Midhun P, Chiranjeevi.H, Kirankumar K, Yogeshkumar. M	Zonal	GCT, Coimbatore	Third

Cricket	21-08-2014 to 25-08-2014	Sundar M, Sugumar N, Mohankumar B, sathiswaran K, Kuppuraj M, Sreekuttan. TP, Karthikeyan R, Prabaharan A, Santhana prasanth P, Anandan.J, Antony babu, Rathinavel P	Zonal	GCT, Coimbatore	Third
Parachute Making	31-03-2015	Aravind S Aravindan D	National	Nehru Institute of Technology	First prize
Athletic 5000 m	09-10-2015 To 11-10-2015	Kamalahasan C	Zonal	KCT Coimbatore	First
Athletic 10000 m	09-10-2015 to 11-10-2015	Kamalahasan C	Zonal	KCT Coimbatore	First
Athletic 400m hurdles	09-10-2015 to 11-10-2015	Santhana prasanth P	Zonal	KCT Coimbatore	Second
Chess	21-08-2015	Gokulakrishnan P, Gopikrishna S, Abdul azees S	Zonal	Sri Guru Institute of Technology	Third prize

Hockey	30-09-2015 to 01-10-2015	Karthick P, Balamurugan S, Hari Deepak M, Rajeshkumar R, Prakash M, Santhanaprasanth P, Aravindhkumar C, kalaiyarasan K, Santhosh M, sivakumar raja D, Sudhagar S, sathish kumar K, harish kanth P, Muthuselvan R	Zonal	KCT Coimbatore	Third Prize
Athletic 5000 m	06-10-2016 to 08-10-2016	Kamalahasan C	Zonal	KCT Coimbatore	Second
Athletic 1500 m	06-10-2016 to 08-10-2016	Kamalahasan C	Zonal	KCT Coimbatore	second
Athletic 20km	06-10-2016 to 08-10-2016	Devaraj R	Zonal	KCT Coimbatore	second
Athletic - Polevault	06-10-2016 to 08-10-2016	Thirupathi S	Zonal	KCT Coimbatore	Third
Kabaddi	29-09-2016 to	Pandidurai P, Arivazhagan A , Nalinkumar V,	Zonal	Sasurie Academy of Engineering,	Second Prize

	30-09-2016	Moovendran R		Coimbatore	
Hockey	01-10-2016 to 02-10-2016	Aravindhkumar C, Kalaiyarasan K, Santhosh M, sivakumar raja D, Sudhagar S, sathish kumar K, harish kanth P, Muthuselvan R, Gowtham M, Ranjith M, Krishnakumar R, Naveenkumar M	Zonal	GCT Coimbatore	Third Prize

Kabaddi Team with medal

Hockey Team with Medal

24. List of eminent academicians and scientists/ visitors to the department

- Dr.Mylswamy Annadurai, Director, ISRO Satellite centre, Bangalore.
- Dr.Karunakaran , Former Vice Chancellor, Anna University of Technology, Coimbatore.
- Dr.S.Muthu, Principal, Suguna College of Engineering, Coimbatore.
- Dr.S.R.Devadasan, Prof, Mechanical, PSG College of Technology, Coimbatore.
- Dr. Ramasamy Sakthivel, Senior Principal Scientist, Department of Advanced Material Technology, Bhubaneshwar.

25. Seminars/ Conferences/Workshops organized & the source of funding

Date	Title of the program organized (Workshop / Guest Lecture/ Conference / Seminar, FDP etc.)	Name and address of the expert	Sponsoring Agency/ Self- Supporting

22/03/2016	One day Career Oriented Workshop and on hands on training in Non Destructive testing Methodologies and Techniques	M.Kanakasabapathi, NDT QC engineer, Metal Testing Lab, Chennai	Self Supporting
23/03/2016	One day Career Oriented Workshop and on hands on training in Non Destructive testing Methodologies and Techniques	M.Kanakasabapathi, NDT QC engineer, Metal Testing Lab, Chennai	Self Supporting
11/07/2016 to 15/07/2016	Five days Workshop on ANSYS	A+ CADD Center	Self Supporting
16/08/2016	One day Technical Seminar on Recent Trends in Production Technology	K. Vijaya Baskar, Vice President- GTN Engineering (INDIA) LTD, Coimbatore	Self Supporting
23/09/2016	One day Seminar on Latest Trends on Material Technology	Dr. Ramasamy Sakthivel, Senior Principal Scientist, Department of Advanced Material Technology, Bhubaneshwar.	Self Supporting
27/10/2016	One day Workshop and onsite training on Foundry Technology	SathyaNarayanan, Sree Sakthi Equipments Company, Mathampalayam, Coimbatore	Self Supporting

26. Student profile programme/course wise:

Name of the Course/ programme	Batch	Intake	Applications Received	Selected	Enrolled		Pass percentage
					M	F	
BE /MECH	2015-19	180+36	#	113	113	0	Pursuing
	2014-18	180+36		103	102	1	Pursuing
	2013-17	180+36		182	180	0	Pursuing
	2012-2016	120+24		140	138	2	77.69
	2011-2015	120+24		140	70	0	72.79
	2010-2014	60 +12		70	70	0	84.28

Applications are received and processed by Anna University and seats are filled through Single Window Counseling and Consortium

27. Diversity of Students

Name of the Course	Batch	Total Strength	% Of Students From the Same state	% Of students From other States (Pondicherry, Kerala, Andra

				Pradesh)
BE /MECH	2015-2019	113	97.35	2.65
	2014-2018	103	87.37	12.63
	2013-2017	153	95.6	4.4
	2012-2016	140	87.86	12.14
	2011-2015	140	85.72	14.28
	2010-2014	70	80	20

28. How many students have cleared national and state competitive examinations

 such as NET, SLET, GATE, Civil services, Defence services, etc?

Our students are appearing for GATE, TANCET, UPSC, TNPSC exams during the final year.

Year	No. of students applied for GATE Exam	No. of students Applied for TANCET	No. of students admitted for higher studies / Job Placement through GATE/TANCET / Other Exams
2013-2014	3	2	1
2014-2015	5	3	5
2015-2016	0	2	4
2016-2017	12	4	-

29. Student progression

Student progression	Against % enrolled		
	2013-2014	2014-2015	2015-2016
UG to PG	5%	3.57%	2.85%
Employed through Campus Selection	95 %	41.91%	66.42%
Employed Other than Campus Recruitment	Nil	53.09	30.73
Entrepreneurship / Self-employment	Nil	1.43	Nil

30. Details of Infrastructural facilities Internet facilities for staff & students

a) Library:

Central Library – Mechanical Engineering	
Titles	436
Volumes	2040
National Journals	8
International Journals	6
E-Journal	1
Department Library	
Titles	72
Volumes	544

 b) Internet facilities for Staff & Students

S.No	Description	Quantity in Numbers
1	Computer	42

2	Computer with internet facilities	42
3	Network facilities for all computers	Yes
4	Printers	1

c) Class rooms with ICT facility.

S.No	Description	Quantity in Numbers
1	Class room with black board	7
2	Class room with LCD projector	2
3	Class room with ICT facility	2

d) Laboratories

S.No	Name of the Laboratory	Major Equipments	Total Cost (Rs)
1	Thermal Engineering Lab	Diesel Engine with electrical loading and Data Acquisition system, Multi-cylinder Petrol Engine, Single cylinder Petrol Engine, Steam Boiler with turbine setup	27,78,000
2	Manufacturing Technology Lab	Centre Lathe, Milling Machines, Slotter, Planer, Gear Hobbing machines	26,85,200
3	Mechatronics lab	Hydraulic Trainer Kit, Basic Pneumatic Trainer	5,68,685
4	Dynamics Lab	Watt, Porter, Proell and Hartnell governors, Dynamic balancing machine	3,41,000

5	Metrology and Measurement Lab	Profile Projector, Mechanical Comparator, Autocollimator	2,41,395
6	Engineering Practices Lab	Hand Drilling Machine, Arc welding transformer with cables and holders	5,70,201
7	CAD/CAM Lab	CNC Machining Centre, Turning Centre, AutoCAD Software	31,746,19

Manufacturing Technology Lab
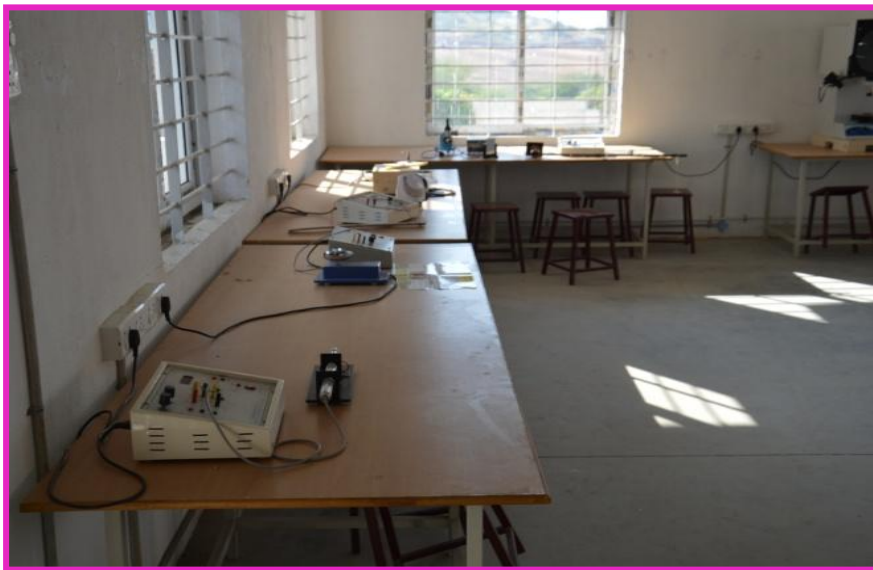
Metrology and Measurements Lab

Dynamics Lab

Thermal Engineering Lab

Mechatronics Lab

CAD Lab

Engineering Practices Lab

CAM Lab

31. Number of students receiving financial assistance from college, University, government or other agencies:

Scholarship Details	Number of students			
	2016-17	2015-16	2014-15	2013-14
Government Agencies	127	126	63	106
Management Merit Scholarship	12	25	21	18

32. Details on student enrichment programmes (special lectures /workshops / seminar) with external experts:

Title of the program	Details of Eminent Resource Person
Mechnovation 2013	R. Vinod Shankar, Head, Se Forge Foundary, Coimbatore.
National Robotics Championship 2014	Mr.Ritesh Shah, ARK Techno solutions, Mumbai
One Day Workshop on Basics of Metal Cutting	Mr.Balakumar, Evergreen Technologies, Coimbatore
Mechanical Engineering Association - 2014	Mr.Ganesh Jagadeesan, Joint Managing Director, Indo Shell Cast PVT LTD, Coimbatore.
Value added course on ANSYS	Mr. Lawrance, A+ CADD Centre, Coimbatore
National Level Technical Symposium,	Mr.N.Viswanathan, CEO, Ammarun

MEXANIKIS 2K15	Foundries, Coimbatore.
One day Career Oriented Workshop and on hands on training in Non Destructive testing Methodologies and Techniques	M.Kanakasabapathi, NDT QC Engineer, Metal Testing Lab, Chennai
One day Workshop and onsite training on Foundry Technology	Mr. Sathyanarayan, Sree Sakthi Equipments Company, Mathampalayam, Coimbatore
National Level Technical Symposium, MEXANIKIS 2K16	Mr.S.Sokkalingam, Managing director, Integra automation, Coimbatore
Five days Workshop on ANSYS	A+ CADD Center
National Level Technical Symposium, MEXANIKIS 2K16	Mr.S.Gnanasekar, Chief Operating Officer, JS Autocast India Pvt. Ltd., Coimbatore

Mecnovation 2013

Association inauguration 2014

.

National Robotics Championship   2014

National Level Technical Symposium MEXANIKIS 2K16

Non Destructive testing Methodologies and Techniques Workshop

National Level Technical Symposium   MEXANIKIS 2K17

33 Teaching methods adopted to improve student learning:

Innovative teaching methods/ approaches Adopted
- NPTEL Video Lecture   - Interactivities based learning   - Mini projects   - Role play activities   - Multimedia learning   - Chart works   - Online test   - Seminars   - Tutorials Classes   - Models   - Industrial Visits

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

Details of Students Projects with Social Relevance

Department	Year	Name of the project	Industrial/Social relevance
	2016	Optimum Process Planning of 307 Housing	Production area in Mechanical Industries

Mechanical Engineering			and Ground Vehicle Systems
	2016	Process Optimization of Submersible Pump Stator and Winding System Using FMEA	Pump Industries
	2016	Design and Fabrication of Oil Blending Machine for Making Lubricant Oil	Oil Refining Industries System Dynamics and Control Transportation Systems
	2015	Modification of Bogie Mounted Brake Cylinder for Effective Braking	Southern Railways, Trichy
	2015	Fabrication of Sensor based Ash Line Sourcing Removal System	Thermal Power Station, Tuticorin
	2015	Design of Hydraulic Motor Drive for Deflector Pinch Roll in AP line - II	Salem Steel Plant, Salem
	2015	Product Design Analysis for Conditional Failures – Rotary kiln	Genuine Shell, Carb Pvt Ltd, Coimbatore
	2015	Optimization of Cost for Hot Forged Round Brass Watch Cases	Titan Company, Hosur
	2015	Design of Air Based	Ashok Leyland Chennai

		Electromagnetic Retarder	
	2015	Investigation of the Characteristics of Cryogenic & Non Cryogenic Treated Carbide Tool	Quality Improvement in Industries
	2015	Bio-Diesel Extraction from Crude Neem Oil	Alternate Energy
	2015	Railway Track Crack Detecting System	Railways
	2015	Design of Modern Fixture	CRI pumps
	2015	Investigation of Mechanical Properties of Banana Fiber Rein Forced Soyabean Composite	Composite field
	2014	Analysis of Defects in Foundry	Aqua Sub Engineering

35. SWOC analysis of the department and Future plans

Strengths	- Good visionary management to take the institution to highest levels of quality - Experienced and dynamic young qualified faculty members - Well equipped laboratory and infrastructure - Cooperative management team - Good environment for the overall development of students - Adoption of innovative teaching methodologies for enhancing students understanding level - Industry institute partnership to enrich practical knowledge - Good campus placement - Encouragement for student innovative.
Weakness	- Focus towards research activities needed - Not having PG Course in Mechanical Engineering - Deficiency in communication skills of the students
Opportunity	- Establishing the centre of excellence in mechanical field. - Alumni Networking for Academic and placement activities - Scope for educational collaboration with IIT, IIM, International universities
Challenges	- Quality and communication of rural students are not good - Stuff of the students needs to be improved

	• Securing placement for all students
Future Plans	• High pass percentage with more University Ranks
	• Higher number of placements
	• To start PG course
	• Development of Research & Development activities
	• 50% of faculty with PhD qualifications

EVALUATIVE REPORT OF THE
DEPARTMENT OF SCIENCE & HUMANITIES

1. **Name of the department** : Science and Humanities

2. **Year of Establishment** : 2010

3. **Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated**

   Masters; Integrated Ph.D., etc.)

S.No.	Engineering .Technology			Year of Starting
1	UG	BE	CIVIL,CSE,EEE,ECE,MECH	2010
2	PG	ME	VLSI DESIGN	2012

4. **Names of Interdisciplinary courses and the departments/units involved**

Departments Involved	Semester	Subject
Mechanical Engineering	I	GE6152 Engineering Graphics
Mechanical Engineering Electrical and Electronics Engineering		GE6162 Engineering Practices Laboratory
Computer Science and Engineering		GE6161 Computer Practices Laboratory-I
Mechanical Engineering and Civil Engineering	II	GE6253 Engineering Mechanics
		GE6251 Basic Civil and Mechanical Engineering

		GE6261 Computer Aided Drafting and Modelling Laboratory
Electrical and Electronics Engineering		GE6252 Basic Electrical and Electronics Engineering
		EE6201 Circuit Theory
		EE6211 Electric Circuits Laboratory
		EC6211 Circuits and Devices Laboratory
Electronics and Communication Engineering		EC6201 Electronic Devices
		CS6201 Digital Principles and System Design
Computer Science and Engineering		CS6212 Programming and Data Structure-I
		GE6263 Computer Programming Laboratory
		CS6211 Digital Laboratory

5. Annual/ semester/choice based credit system (programme wise):

S.No.	Engineering .Technology			Annual Semester Credit System
1	UG	BE	Common for all branches	Semester based Credit System

6. Participation of the department in the courses offered by other departments:

Details of the participation of the department in the other departments courses

S.No	Subjects	Semester Courses	Department to which the courses handled
1	MA6351-Transforms and Partial Differential Equations	III BE.,	Civil Engineering Computer Science and Engineering Electrical and Electronics Engineering Electronics & Communication Engineering Mechanical Engineering
2	GE6351-Environmental Science and Engineering	III BE.,	Computer Science and Engineering
3	MA6452-Statistics and Numerical Methods	IV BE.,	Mechanical Engineering
4	MA6453-Probability and Queueing Theory	IV BE.,	Computer Science and Engineering
5	MA6451-Probability and Random Processes	IV BE.,	Electronics & Communication Engineering
6	MA6459-Numerical Methods	IV BE.,	Electrical and Electronics Engineering
		IV BE.,	Civil Engineering
7	MA6566-Discrete Mathematics	V BE.,	Computer Science and Engineering
8	GE6674-Communication Skills Laboratory	V BE.,	Civil Engineering
			Electrical and Electronics Engineering

			Mechanical Engineering
9	GE6674-Communication Skills Laboratory	VI BE.,	Computer Science and Engineering
			Electronics and Communication Engineering
10	CS6702-Graph Theory & Applications	VII BE.,	Computer Science and Engineering
11	CS6704-Resource Management Technique	VI BE.,	
12	MA7157-Applied Mathematics for Electrical Engineering	I ME.,	Electronics and Communication Engineering (PG)

7. Courses in collaboration with other Universities, industries, foreign institutions:

Department has signed MoUs with industries and University to enrich students knowledge to fulfill the industrial need.

Details of MoUs with industries & University

S. No	Name of the Industry / University	Scope of MOU
1	FACE	Any student, if given the right kind of inspiration, motivation and sufficient exposure to the opportunities available, will certainly be available to realize his/her potential.
2	Six Phrase	The finishing school a soft skill training institute imparting placement training for educational institutional

3	Get Set Go(CBE)	Training and consultancy solution, Soft skill Training, Seminars, Workshops and placements
4	UB Genius(The Nilgiris)	Training and consultancy solution, Soft skill Training, Seminars, Workshops and placements
5	Sri Meenakshi Indutries	Foundry (Training and placement)

8. Details of courses / Programmes discontinued (if any) with reasons:

Nil

9. Number of teaching posts

	Sanctioned	**Filled**
Professors	4	0
Associate Professors	7	3
Asst. Professors	21	30

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. / M. Phil. etc.):

Name	Qualification	Designation	Specialization	No of years Experience
Ms. Rojamary.T	M.Sc., M.Phil., (Ph.D.)	Associate Professor	Mathematics	16
Ms. Ramya. D	M.Sc., M.Phil.,	Assistant Professor	Functional Analysis	7
Ms. Kousalya M S	M.Sc. M.Phil B.Ed.	Assistant Professor	Operational Research	4.6
Mr Praveen Prabhu D	M.Sc., M.Phil.,	Assistant Professor	Mathematics	9
Ms Reena Devi B	M.Sc., M.Phil.,	Assistant Professor	Mathematics	6
Ms Periyanaki P	M.Sc., M.Phil.	Assistant Professor	Mathematics	0.6
Mr.Karthick K	M.Sc., M.Phil.	Assistant Professor	Mathematics	3.6
Ms. Latha S	M.Sc., M.Phil.	Assistant Professor	Mathematics	2.8
Mr. Saravanan S	M.Sc., M.Phil.	Assistant Professor	Mathematics	0.6
Ms. Selvanayaki D	M.Sc., M.Phil.	Assistant Professor	Mathematics	0.6
Ms. Swarnalatha C	M.Sc., M.Phil.	Assistant Professor	Mathematics	0.6

Ms. Vanitha R	M.Sc., M.Phil.	Assistant Professor	Mathematics	0.6
Ms. Ponmani S	M.Sc., M.Phil.	Assistant Professor	Mathematics	0.6
Ms. Backiya lakshmi. N	M.Sc., M.Phil., (Ph.D.)	Assistant Professor	Nano technology	7
Mr. Gopala Krishnan. V	M.Sc., M.Phil., (Ph.D.)	Assistant Professor	Thin films	7
Ms. Saranya. M	M.Sc., M.Phil.	Assistant Professor	Physics	2.8
Ms. Mohana Priya S	M.Sc., M.Phil.	Assistant Professor	Physics	0.6
Mr. Prakash G	M.Sc., M.Phil.	Assistant Professor	Physics	0.6
Mr. Tamil Gandhi N	M.Sc., M.Phil.	Assistant Professor	Physics	0.6
Ms. Prathipa. R	M.Sc. M.Phil (Ph.D.)	Assistant Professor	Cheminformatics	9
Ms. Saranya. D	M.Sc. M.Phil.	Assistant Professor	Organic chemistry	5.3
Dr S. Agnesia Kanimozhi	M.Sc. Ph.D.	Associate Professor	Corrosion	6.1
Dr Sindhuja. CR	M.Sc. M.Phil Ph.D	Associate Professor	Inorganic chemistry	6.5
Vinny P Peter	M.Sc. M.Phil.,	Assistant Professor	Chemistry	6

	(Ph.D)			
Dr T R Heera	M.Sc. M.Phil Ph.D	Assistant Professor	Applied chemistry	4.4
Ms. Kogilavani. B	M.A., M.Phil., (Ph.D.)	Assistant Professor	Afro American	9.5
Ms. Kavitha. M	M.A., (Ph.D.).	Assistant Professor	Indian Writing in English	2
Ms. Ramya. R	M.A., M.Phil.,.	Assistant Professor	Literature	4.6
Ms. Sasi Rekha.C	M.A., M.Phil.,	Assistant Professor	Literature	4.5
Ms. Giftsy Dorcas E	M.A., M.Phil.,	Assistant Professor	Literature	1.7

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme Wise) by temporary faculty   :

As we have sufficient number of faculty members to handle the lectures and practical classes with sufficient experience, we did not require any temporary faculties.

13. Student -Teacher Ratio (Program wise)

UG: Science and Humanities - 15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Details of the Academic support staff

Description	Sanctioned	Filled
Teaching Support Staff	1	1

15. Qualifications of teaching faculty with D. Sc / D.Lit / Ph. D/ M. Phil./ PG:

Qualification	Number of faculty
Ph.D	03
Ph.D Pursuing	05
M.Phil	25

16. Number of faculty with ongoing projects from a) National b) International and grants received:

Ongoing projects from National & International funding agencies: 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. Publication:

Details of Faculty Publications in Journal/Conferences

S.No	Name of The Faculty	Number of Publications
1	T. Rojamary	6
2	B. Kogilavani	6
3	R Prathipa	18
4	Dr C R Sinduja	27
5	Dr S.Agnesia Kanimozhi	8
6	Dr T R Heera	7
7	N Backiyalakshmi	1
8	V Gopalakrishnan	1

Students Publications in Journal/conferences

Nil

20. Areas of consultancy and income generated:*

Nil

21. Faculty as members in a) National Committees b) International Committees C) Editorial boards.

International Committees

S No	Name of Faculty	Members in Professional Bodies	Reviewer
		National	
1	Ms T Rojamary	ISCA(Yet to be received)	
2	Ms D Ramya	ISCA(Yet to be received)	
3	Ms M S Kousalya	ISCA(Yet to be received)	
4	Mr D Praveen Prabhu	ISCA(Yet to be received)	
5	Ms Reena Devi	ISCA(Yet to be received)	
6	Ms Periyanaki	ISCA(Yet to be received)	
7	Mr Karthik	ISCA(Yet to be received)	
8	Ms B Kogilavani	ELTA(Life member)	
9	Ms R Ramya	ELTA(Life member)	
10	Ms Gifftsy Dorcas E	ELTA(Life member)	
11	Ms N Backiyalakshmi	ISCA(Yet to be received)	
12	Mr V Gopalakrishnan	ISCA(Yet to	

			be received)	
13	Ms M Saranya	ISCA(Yet to be received)		
14	Ms R Prathipa	ISTE(Life member)	Journal of Emerging Technologies and Innovative Research	
			Global Research and Development Journals	
15	Dr Agnesia Kanimozhi	ISCA(Yet to be received)		
16	Dr C R Sinduja	ISCA(Yet to be received)		
17	Dr T R Heera	ISCA(Yet to be received)		

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme:

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

Not Applicable

23. Awards/ Recognitions received by faculty and students Faculty

Academic year	Name of the faculty	Subject	Percentage Achieved
2013 -2014 (ODD)	S Srinithi	Transforms And Partial Differential Equations	92.06%
	Mohammed Razik	Discrete Mathematics	97%
2013 -2014 (EVEN)	Mohammed Razik	Numerical Methods	93%
2014-2015 (ODD)	R Prathipa	Engineering Chemistry I	95.7%
	M Kavitha	Technical English I	95.65%
2014-2015 (EVEN)	R Ramya	Technical English II	100%
	M Kavitha	Technical English II	95%
2015-2016 (ODD)	R Ramya	Technical English II	100%
	R Ramya	Technical English II	97.7%
	S Srinithi	Transforms And Partial Differential Equations	91%
2015-2016 (EVEN)	B Gayathiri	Statistics And Numerical Methods	92%
	Revathi K	Numerical Methods	97%
2016-2017 (ODD)	Kogilavani B.	Technical English-II	98%

Student

ACDEMIC YEAR	NAME	DEPARTMENT	CGPA
2013-2014 (ODD)	Baby Shalini	CSE	8.9
	Gowtham R	EEE	8.78
	Vidhya V	CSE	8.61
2013-2014 (EVEN)	Gowtham R	EEE	8.26
	Vidhya V	CSE	8.24
	Supritha M	CSE	8
2014-2015 (ODD)	Aishwarya ashokan	ECE	8.9
	Anjali B	CSE	8.7
	Jithu C	ECE	8.5
2014-2015 (EVEN)	Anjali B	CSE	8.68
	Banumathi P	CSE	8.48
	Sobina S	ECE	8.3
2015-2016 (ODD)	Subhashini P	CSE	8.23
	Yuvarani V	ECE	8.2
	Nivetha N	ECE	8.15
2015-2016 (Even)	Nivetha N	ECE	9.13
	Mamtha D	CSE	8.92
	Yuvarani V	ECE	8.84
2016-2017 (Odd)	Vijayendran N	MECH	8.38
	Keerthana S	MECH	8.27
	Santhiya D	MECH	8.27
	Dhanamuthuraaj r.	ECE	8.16

Students Achievements Award

Academic Year 2016-17					
Name of the Event	**Date**	**Name of the Student**	**National /zonal**	**Host College**	**Achievement**
KABADDI	29.09.2016 To 30.09.2016	R Moovendran	ZONAL	Sasurie academy of engineering,Coimbatore	II PLACE
HOCKEY	01.10.2016 To 02.10.2016	M Ranjith	ZONAL	Sree sakthi engineering college	III PLACE
		R Krishna Kumar			
		M Naveen Kumar			
ATHELITIC	06.10.2016 To 08.10.2016	R Devaraj	ZONAL	Sree Sakthi Engineering College	II PLACE
POLE VALUT		S Tirupathi			III PLACE
Academic Year 2015-16					
Name of the Event	**Date**	**Name of the Student**	**National /zonal**	**Host College**	**Achievement**
Chess	21.08.2015	B Vaishak	Zonal	Sri guru institute of technology	III PLACE
		S Devika			
		S Gopikrishna			
		S Abdulazees			
Pole Valut	09.10.2015 To 11.10.2015	L Sudarsan	Zonal	Kumaraguru college of technology	IV PLACE

	Academic Year 2014-15				
Name of the Event	**Date**	**Name of the Student**	**National /zonal**	**Host College**	**Achievement**
Foot Ball	03.09.2014 To 05.09.2014	M Yogesh Kumar	Zonal	Government College Of Technology, Coimbatore	III PLACE

24. List of eminent academicians and scientists/ visitors to the department

Academic Year	Name of the academicians / scientists	Institution/Industry	Date	Purpose of visit
2014	Dr T V Venkateswaran	Registrar , Govt of India	08.08.2014	Tamil Nadu Science Forum Maths & Science Fest
	Dr Nellai Muthu(Rtd),	ISRO Scientist	09.08.2014	Tamil Nadu Science Forum Maths & Science Fest
	Dr K.Pradeep Kumar	ELITE Member	27.08.2014	Scientia 2014
2015	Dr K.Pradeep Kumar	ELITE Member	05.03.2015	National science day 2015
	Dr. P. Surya Narayanan	Retd.Professor Govt.Arts College, CBE	20.03.2015	Guest Lecture
2016	K. Sadhasivam	Senior Professor Simplified Kundalini Yoga	18.02.2016	Guest Lecture on "Unavae Marunthu- Maruntae

				Unavu"-2016
	Dr. K. Mani	Former Professor, PSG Arts and Science College, CBE	05.03.2016	National science day 2016
	Thiru. M.K. Rafi, B.A., B.L.,	Chairman/ District Munsif-Cum-Judicial Magistrate Taluk Legal Services Committee, Mettupalayam	23.03.2016	Guest Lecture on "Legal Literacy Class for students"-2016
	Dr Anbazhagan Vijay. J	Prof in English, Govt College of Technology,CBE	24.08.2016	Scientia 2016
	R. Vijay Kumar	Memory and motivational traineer	24.09.2016	Motivational talk

25. Seminars/ Conferences/Workshops organized & the source of funding

  a. **National   b. International**

<div align="center">Nil</div>

26. Student profile programme/course wise:

Name of the Course/ programme	Batch	Intake	Applications Received	Selected	Enrolled	
					M	F
BE/ECE	2016-2017	120	#	36	16	20
	2015-2016	120		28	6	22
	2014-2015	120		41	10	31
	2013-2014	120		40	21	19
	2012-2013	120		57	21	36
BE/CSE	2016-2017	60	#	51	22	29
	2015-2016	60		30	22	8
	2014-2015	60		26	12	14
	2013-2014	60		16	7	9
BE/EEE	2016-2017	60	#	38	29	9
	2015-2016	60		26	17	9
	2014-2015	60		28	18	10
	2013-2014	60		14	10	4
BE/MECH	2016-2017	180	#	139	134	5
	2015-2016	180		97	97	-
	2014-2015	180		81	80	1
	2013-2014	180		123	123	-
BE/CIVIL	2016-2017	60	#	44	36	8
	2015-2016	60		45	37	8
	2014-2015	60		50	44	6
	2013-2014	60		47	37	10

Applications are received and processed by Anna University and seats are filled through Single Window Counselling and Consortium

27. Diversity of Students

Name of the Course	Batch	Total Strength	% Of Students From the Same state	% Of students From other States	% Of student from abroad
CIVIL	2016-2020	44	100	Nil	Nil
CSE		51	96.08	3.92	Nil
ECE		36	100	Nil	Nil
EEE		38	100	Nil	Nil
MECH		139	100	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc?

Not Applicable

29. Student progression

Not Applicable

30. Details of Infrastructural facilities Internet facilities for staff & students

a) Central Library:

Central Library – Science & Humanities	
Titles	288
Volumes	1438
National Journals	6
International Journals	-
E-Journal	1
Department Library	
Titles	19
Volumes	735

b) Internet facilities for Staff & Students

- Department Computer Systems are connected with LAN. Wired Internet and Wi-Fi facility is available in the department for the benefit of faculty and students.

c) Class rooms with ICT facility.

- Class rooms are equipped with LCD, Wi-Fi facility with highly configured Computer Systems.

d) Laboratories

<u>**Chemistry Laboratory**</u>

The laboratory facilities are utilized by all the UG students. The details are given below.

Sl. No.	Facility (Equipment / Software name)	Description(uses)
1	Digital pH Meter	Check pH of the solution
2	Digital Conductivity Meter	Conductance Measurements
3	Digital electronic balance	To take weight of the sample
4	Potentiometer	EMF Measurement
5	Ostwald Viscometer	To determine the viscosity of any fluid
6	Flame Photometer	Qualitative and Quantitative analysis of inorganic substances
7	Hot plate	Organic, Inorganic preparations

Physics Laboratory

The laboratory facilities are utilized by all the UG students.

The details are given below.

Sl. No.	Facility (Equipment / Software name)	Description(uses)
1	Ultrasonic Interferometer	To measure the velocity and wavelength of sound wave
2	Lee's Disc Apparatus	To measure the thermal conductivity of a bad conductor
3	Laser source with Grating and Glass plate coated with Lycopodium powder	To determine the wavelength of given laser light and size of the particle

4	Air wedge – setup	To measure the thickness of the given material
5	Torsional Pendulum	To determine the rigidity modulus
6	Spectrometer with Prism and Grating	To determine the dispersive power of the prism, number of lines and wavelength of the spectral lines
7	Poiseuille – set up	To determine the viscosity of the given liquid
8	Young's modulus Apparatus	To determine the Young's modulus of the beam

31. Number of students receiving financial assistance from college, University, government or other agencies:

Scholarship Details	Number of students			
	2016-17	2015-16	2014-15	2013-14
Government Agencies	254	160	183	194
Management Merit Scholarship	44	60	52	17

32. Details on student enrichment programmes (special lectures /workshops / seminar) with external experts:

Academic Year	External Experts	Institution/Industry	Date	Special Lectures Workshops Seminars
2013-2014	Dr T V Venkateswaran	Registrar , Govt of India	08.08.2014	Tamil Nadu Science Forum Maths & Science Fest
	Dr Nellai Muthu(Rtd),	ISRO Scientist	09.08.2014	Tamil Nadu Science Forum Maths & Science Fest
	Dr K.Pradeep Kumar	ELITE Member	27.08.2014	Scientia 2014
2014-2015	Dr K.Pradeep Kumar	ELITE Member	05.03.2015	National science day 2015
	Dr K.N. Venkataramana	Asst.Director, Pasteur institute of India, Coonoor.	06.03.2015	National Science Day
	Dr. P. Surya Narayanan	Retd.Professor Govt.Arts College, CBE	20.03.2015	Guest Lecture

2015-2016	K. Sadhasivam	Senior Professor Simplified Kundalini Yoga	18.02.2016	Guest Lecture on "Unavae Marunthu-Maruntae Unavu"-2016
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2016-2017	Dr Anbazhagan Vijay. J	Prof in English, Govt College of Technology,CBE	24.08.2016	Scientia 2016
	R. Vijay Kumar	Memory and motivational traineer	24.09.2016	Motivational talk
	Dr. B.Selvakumar	Asso.Prof,Govt.Arts College,Coimbatore.	04-03-2017	National Science Day 2017

National Science Day 2016-2017

SCIENTIA 2016-2017

Motivational Talk-2016-17

Guest Lecture on "Legal Literacy Class for Students"-2015-16

Guest Lecture 2015-16

National Science Day 2015-16

SCIENTIA 2014

National Science Day 2014-15

Tamilnadu Science Forum 2014

3 (a) Teaching methods adopted to improve student learning:

- Staff members are encouraged to adopt student – oriented teaching.

- Efforts are taken to improve learning through group discussions.

- Effective use of technical aids, such as LCD projectors power point presentations has enhanced the quality of teaching.

- Illustrative charts, models are used to enable students to comprehend complicated concepts.

- Students are encouraged to improve their knowledge through peer interaction.

- MTGs (Micro Teaching Groups) are formed for every subject to achieve this objective.

- Assignments on selected topics are given to students to help them understand analytical subjects.

- Tutorial classes are arranged periodically for the benefit of rural-based and weaker students.

- Guest lectures by eminent professors are arranged periodically.

- Traditional as well as innovative methods are used for enhancing the quality of teaching learning process.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

- Students actively participated in tree planting activities.
- Social awareness programs were arranged in the campus with the help of social service organizations.
- Students participated willingly in plastic eradication program in Coimbatore city.
- Regular Blood Donors are identified and their services utilized through Youth Red Cross and NSS.
- Students are encouraged to participate in all social awareness programs organized by NSS.

S.No	Date	Event	Academic Year	No. participants
1	09.08.2015	World Record Event	2014-2015	230
2	10.10.2015	World largest student meet-World Record at Codissia	2014-2015	230
3	05.11.2016	World largest student meet-World Record at Codissia	2016-2017	300

World Record Event

Blood Donation Camp at SSEC

Science Forum Project

35. SWOC analysis of the department and Future plans

Strengths	• Well-equipped laboratories • State of the art Language Laboratory and life skill training to the students • Close monitoring of students and healthy faculty-student relationship • Bridge courses and remedial teaching sessions are conducted for the students • Qualified and experienced faculty in all basic sciences • Social awareness and social responsibility are instilled in the students through a number of extension activities
Weakness	• Initial difficulties in establishing a common ground for socio- economic relation

	• Most of the students are from Tamil medium & interior villages so lag in communication in English • Less no of faculty members with Doctorates
Opportunity	• Intra departmental competitions like paper presentation, poster presentation, colleague and photography and also science projects are conducted to the students. • To increase social responsibilities the students are motivated to participate in social awareness programs like rally, blood donation camp, tree plantation. • To upgrade the qualification of Faculty members Faculty Development Pragrammes are also encouraged.
Challenges	• Students from rural areas have less confidence level • Securing 100% result for students • Engender more University Ranks
Future Plans	• To organize National Seminars and Conferences for the betterment of Faculty members and students. • To receive grants from funding agencies.

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 is prepared by the institution after internal discussions, and no part thereof has been outsourced.

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

Signature of the Head of the Institution

With seal:
Dr. V. VEL MURUGAN, M.E.,Ph.D.,
Principal,
Sree Sakthi Engineering College
Coimbatore-641 104.

Place: Coimbatore

Date: 26-02-2017

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

F.No. Southern/1-2811540551/2016/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	1-2811540551
Name of the Institute	SREE SAKTHI ENGINEERING COLLEGE	Permanent Id	1-3002821
Name of the Society/Trust	SREE SAKTHI CHARITABLE TRUST	Institute Address	899/1&898/2 BETTATHAPURAM,BILICHI VILLAGE, KARAMADAI, COIMBATORE, COIMBATORE, Tamil Nadu, 641104
Institute Type	Unaided - Private	Society/Trust Address	839/1D, BETTATHAPURAM PUDUR, KARAMADAI, COIMBATORE ? 641 104.,COIMBATORE,COIMBATORE,Tamil Nadu,641104

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: 1-2811540551			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twining Program Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLO	1st Shift	POST GRADUA	VLSI DESIGN	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA

Application Number: 1-2811540551   Page **1** of 3
Note: This is a Computer generated Report.No signature is required.   Letter Printed On:10 May 2016

Printed By : AN936161

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

GY		TE								
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Anna University, Chennai	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	180	180	NA	NA	NA

The above mentioned approval is subject to the condition that SREE SAKTHI ENGINEERING COLLEGE shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

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

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:
1. **The Regional Officer,**
    All India Council for Technical Education

Application Number: 1-2811540551
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Printed By : AN936161

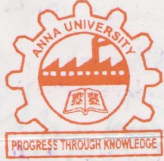Page **2** of **3**
Letter Printed On:10 May 2016

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

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,**
   SREE SAKTHI ENGINEERING COLLEGE
   899/1&898/2 BETTATHAPURAM,BILICHI VILLAGE, KARAMADAI,
   COIMBATORE,COIMBATORE,
   Tamil Nadu,641104

5. **The Secretary / Chairman,**
   SREE SAKTHI CHARITABLE TRUST
   839/1D, BETTATHAPURAM
   PUDUR, KARAMADAI,
   COIMBATORE ? 641 104.,
   COIMBATORE,COIMBATORE,
   Tamil Nadu,641104

6. **Guard File(AICTE)**

Application Number: 1-2811540551
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Page **3** of **3**
Letter Printed On:10 May 2016

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/2016-17/7136

Date: 12-05-2016

To

The Principal,
**Sree Sakthi Engineering College, Bettathapuram,
Karamadai, Coimbatore-641104**

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 **Sree Sakthi Engineering College, Bettathapuram, Karamadai, Coimbatore-641104.**

Sl. No.	Degree	Course(s)	Sanctioned Intake	
			2015-16	2016-17
1	B.E.	Civil Engineering	60	60
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	180	180
6	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,
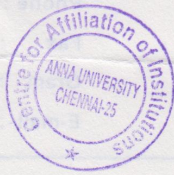
REGISTRAR
REGISTRAR
ANNA UNIVERSITY
CHENNAI-600 025

Copy to:

1. The Director of Technical Education, DOTE campus, Chennai - 600 025.

2. The Regional Officer, Southern Regional Office, AICTE, 26,Haddows Road,Shastri Bhawan,Chennai 600 006.

3. Master file.

Certificate of Compliance

(Affiliated/~~Constituent/Autonomous~~ Colleges and Recognized Institutions)

This is to certify that **SREE SAKTHI ENGINEERING COLLEGE**
fulfils all norms

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.

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

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

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

Date:26-02-2017
Place:Coimbatore

Principal/Head of the Institution
(Name and Signature with Office seal)

Dr. V. VELMURUGAN, M.E.,Ph.D.,
Principal,
Sree Sakthi Engineering College
Coimbatore-641 104.