Annual Quality Assurance Report (AQAR)

2015 – 16

Submitted by

Internal Quality Assurance Cell (IQAC)

ERODE SENGUNTHAR ENGINEERING COLLEGE

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

Accredited by National Board of Accreditation (NBA), New Delhi.

Accredited by NAAC – UGC with 'A' Grade)

THUDUPATHI, ERODE – 638 057

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

ERODE SENGUNTHAR ENGINEERING COLLEGE

(Accredited By NBA, New Delhi, IE(I), Kolkata & NAAC, Bengaluru & ISO 9001 : 2008 Certified Institution Approved by AICTE, New Delhi & Permanently Affiliated to Anna University, Chennai)

THUDUPATHI (Po.), PERUNDURAI, ERODE - 638 057.

Er. R. MOHANRAJ, B.E., MIE., FIV.,	S. SIVANANTHAN	Dr. L. BOOPATHI, M.E., Ph.D.
Correspondent	**Secretary**	**Principal**

Ref: ESEC / NAAC / IQAC / AQAR 01 / 2015-16   29.09.2016

To

The Deputy Advisor,

National Assessment and Accreditation Council (NAAC),

P.O. Box. No. 1075,

Opp: NLSIU, Nagarbhavi,

Bangalore – 560072.

Sir,

Sub: **Submission of Annual Quality Assurance Report (AQAR) for the Academic Year 2015 – 16 - ESEC - Reg.**

Warm Greeting from Erode Sengunthar Engineering College.

The Erode Sengunthar Engineering College, established in the year 1996 by a group of philanthropists of Erode Sengunthar Educational Trust, is offering seven UG courses and seven PG courses in Engineering & Technology, Computer Applications and Management Studies. The college is approved by AICTE, New Delhi and permanently affiliated to Anna University, Chennai.

All the Under Graduate programmes offered in our college are accredited by National Board of Accreditation, New Delhi and Institution of Engineers (IEI), Kolkata and the College is also an ISO 9001:2008 Certified Institution. The College has been accredited by NAAC with highest grade 'A' with effect from May 2015. Herewith we are submitting the Annual Quality Assurance Report for the academic year 2015 – 16 through email. We request you to kindly consider our submission and acknowledge the same.

Thanking you

With Regards

PRINCIPAL

(Dr. L. Boopathi)

PRINCIPAL,
Erode Sengunthar
Engineering College,
Thudupathi, Erode-638 057.

The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

AQAR for the year

> 2015 - 16

1. Details of the Institution

1.1 Name of the Institution

> ERODE SENGUNTHAR ENGINEERING COLLEGE

1.2 Address Line 1

> Thudupathi

Address Line 2

> Perundurai

City/Town

> Erode

State

> Tamil Nadu

Pin Code

> 638057

Institution e-mail address

> erode_sengunthar@erode-sengunthar.ac.in
>
> principal@erode-sengunthar.ac.in

Contact Nos.

> 04294 - 232701, 232702

Name of the Head of the Institution:

> Dr. L. Boopathi

Tel. No. with STD Code:

> 04294 – 232701, 02, 03

Mobile:

> +91 94421 32706

Name of the IQAC Co-ordinator:

> Prof. M. Shyamalagowri

Mobile:

> +91 98426 60908

IQAC e-mail address:

> iqac@esec.ac.in

1.3 NAAC Track ID (For ex. MHCOGN 18879)

OR

TNCOGN20804

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom

of your institution's Accreditation Certificate)

EC (SC) / 06 / A & A / 063

dated 01.05.2015

1.5 Website address:

www.erode-sengunthar.ac.in

Web-link of the AQAR:

www.erode-sengunthar.ac.in/iqac/TNCOGN20804-
ErodeSenguntharEngineeringCollege,Erode-Tamilnadu.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	A	3.01	2015	5 years
2	2nd Cycle				
3	3rd Cycle				
4	4th Cycle				

1.7 Date of Establishment of IQAC :

17.07.2015

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((*for example AQAR 2010-11submitted to NAAC on 12-10-2011*)

AQAR 2015 – 16 Submitted to NAAC on 29.09.2016

1.9 Institutional Status

University   State √ Central ☐ Deemed ☐ Private ☐

Affiliated College   Yes √ No ☐

Constituent College   Yes ☐ No √

Autonomous college of UGC   Yes ☐ No √

Regulatory Agency approved Institution   Yes √ No ☐
(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution   Co-education √   Men ☐   Women ☐

                Urban ☐   Rural √   Tribal ☐

Financial Status   Grant-in-aid ☐   UGC 2(f) √   UGC 12B ☐

        Grant-in-aid + Self Financing ☐   Totally Self-financing √

1.10 Type of Faculty/Programme

    Arts ☐   Science ☐ ommerce ☐ aw ☐   PEI (Phys Edu) ☐

    TEI (Edu) ☐ Engineering √   Health Science ☐   Management ☐

Others   (Specify) | - |

1.11 Name of the Affiliating University *(for the Colleges)* | Anna University, Chennai |

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University [-]

University with Potential for Excellence [-]   UGC-CPE [-]

DST Star Scheme [-]   UGC-CE [-]

UGC-Special Assistance Programme [-]   DST-FIST [-]

UGC-Innovative PG programmes [-]   Any other (*Specify*) [2f status by UGC]

UGC-COP Programmes [-]

2. IQAC Composition and Activities

2.1 No. of Teachers [27]

2.2 No. of Administrative/Technical staff [02]

2.3 No. of students [01]

2.4 No. of Management representatives [02]

2.5 No. of Alumni [01]

2. 6 No. of any other stakeholder and community representatives [01]

2.7 No. of Employers/ Industrialists [01]

2.8 No. of other External Experts [-]

2.9 Total No. of members [13]

2.10 No. of IQAC meetings held [04]

2.11 No. of meetings with various stakeholders: No.   04   Faculty   04

   Non-Teaching Staff Students   04   Alumni   04   Others   04

2.12 Has IQAC received any funding from UGC during the year?   Yes [ ]   No [√]

   If yes, mention the amount   -

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

   Total Nos.   4   International   -   tional   1   te   -   itution Level   3

(ii) Themes

- A one day workshop on '**Importance and benefits of IEEE'** was conducted to create engineering students of good quality.
- An awareness programme on '**Quality Learning in Women's Education'** was conducted to make the girl students to learn the importance of higher education.
- **'Library Awareness Programme'** was conducted to enhance the self learning ability of students and faculty members.
- A one day national level conference on '**Quality through Innovations in Engineering'** was organized to enhance the innovative ideas in engineering education among the faculty members and students.

2.14 Significant Activities and contributions made by IQAC

- Periodical meetings with various stake holders are initiated to formulate the plan of action. The implementation of action plans are reviewed in the subsequent meetings.
- Personality development programmes, Value added certificate courses & Pre-placement training programmes were conducted to enhance the level of placement.
- Motivational and Career guidance training programmes were offered to strengthen the confidence level of students to pursue their higher studies and for better placement.
- Memorandum of Understanding was established with various industries to build up the Industry Institute Interaction at various levels.
- Library services were upgraded periodically by increasing no. of books, journals and e-journals to facilitate reading for the faculty members and students.

- The students were motivated to participate in co curricular, extracurricular activities and social services.
- The students were encouraged to take part in technical and creative activities besides the classroom teaching and laboratory practices by making them involved in
  - ➢ Collaborations with industries through industrial projects, industrial visits and in-plant trainings.
  - ➢ Activities like seminar, conference, symposium, etc.
  - ➢ Value added courses.
  - ➢ Consultancy projects like extension activities to nearby industries & hospitals.
- The college encourages the practice of planting tree saplings in the campus to create green environment.
- The faculty and students were motivated to publish their innovative research ideas in referred international journals.
- The Academic Audit was conducted and the report was analyzed in the IQAC meetings.

 2.15 Plan of Action by IQAC/Outcome

The plan of action was framed by IQAC in the beginning of the academic year and the outcomes were reviewed at the end of the academic year

Plan of Action	Achievements
To improve the academic results and the graduation rate.	In the academic year 2015 – 16, the academic result was 73.60% and the graduation rate was 93.19 %.
To increase the admission rate.	The total admission was improved by 10.12%, comparing with the previous academic year.
To enhance the placement rate in core and multinational companies	90.1% of students got placed in various core and multinational companies. 521 offers were issued to 403 students. Totally 27 core and 52 multinational companies visited the college for campus recruitment.
To provide the quality enhancement programmes to the faculty members, students and the administrative staff.	A total of 124 quality enhancement programmes were conducted in the academic year 2015 - 16.
To organize the national/ international level seminars, workshops, guest lectures, leaders' talks, conferences.	19 national / international level seminars / workshops, 57 guest lectures, 42 leaders talk and 7 conferences were conducted for the benefit of the students and faculty members.
To strengthen the activities of all the clubs and forums in the college.	Clubs like Rotaract, NSS were organizing various functions to build social awareness & responsibility among the students.
To promote the research & development activities and the consultancy activities	Totally 155 projects and seminar proposals worth Rs. 415.85 lakhs were submitted to various funding agencies like DST, DRDO, ICMR, TNSTC, MoES etc., during the academic year 2015 – 16 and a grant of Rs. 93.13 lakhs was fetched. Rs.3,77,500 was generated through consultancy activities by providing training to the industrial employees, material testing, etc.

* Attach the Academic Calendar of the year as Annexure.

2.16 Whether the AQAR was placed in statutory body   Yes   [√] No   [   ]

Management   [√]   Syndicate   [√]   Any other body   [   ]

The details of the action taken

The Management and IQAC members approved the Annual Quality Assurance Report (AQAR) after a detailed discussion. They also suggested to strengthen the placement, industry institution interaction, and research & consultancy activities.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	-	2	-	-
PG	7	-	-	4
UG	7	-	-	25
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	14	2	-	29

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum: ~~CBCS~~/ **Core / Elective option** / ~~Open options~~

(ii) Pattern of programmes:

Annual   ra

1.3 Feedback from stakeholders* Alumni √ Parents √ Employers √ Students √

(On all aspects)

Mode of feedback   :   Online √   Manual √ operating schools (for PEI)

*Please provide an analysis of the feedback in the Annexure

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

> The college is affiliated to the Anna University, Chennai and follows the curriculum and syllabi prescribed by it. The institution does not frame any new curriculum for any of the courses offered on its own.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

> National Resource Centre for Cyber Safety and Security Standard was established.
>
> Department of Mechanical Engineering obtained approved Research centre from Anna University, Chennai.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
216	194	10	9	-

2.2 No. of permanent faculty with Ph.D.

24

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
23	--	--	--	--	--	--	--	23	--

2.4 No. of Guest and Visiting faculty and Temporary faculty

102		23		-

2.5 Faculty participation in conferences and symposia:

No. of Faculty Attended	Department	International level	National level	State level
Seminars/ Workshops	CIVIL	-	3	-
	CSE	-	5	145
	EEE	-	3	42
	ECE	-	100	-
	EIE	-	-	10
	MECHANICAL	-	29	-
	CHEMICAL	-	5	6
	MBA	3	16	-
	MCA	-	10	10
	S & H	8	20	7
Presented papers	CIVIL	4	5	-
	CSE	8	17	-
	EEE	17	16	-
	ECE	2	11	-
	EIE	-	10	-
	MECHANICAL	19	5	-
	CHEMICAL	-	8	-
	MBA	5	-	-
	MCA	10	9	-
	S & H	24	11	1

	CIVIL	1	-	1
	CSE	-	-	17
	EEE	-	5	8
	ECE	-	10	-
Resource	EIE	-	-	1
Persons	MECHANICAL	-	2	-
	CHEMICAL	-	-	4
	MBA	-	1	1
	MCA	1	-	2
	S & H	1	2	-

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- ICT tools like PPT, multimedia presentations, webinars, e-books, etc., were used for enhancing teaching learning process.
- Course material in digital form was prepared by the individual faculty for their concerned subject well in advance.
- Role plays, group discussions, model based demonstrations and quizs were conducted in specific topics.
- Effective mentoring and counseling was given.
- Important News paper articles related to new inventions were displayed in the notice board.
- Observing day-to-day marketing status through NDTV profit channel.
- Business experts' videos were shown to the students to develop entrepreneurship skills.
- Students were motivated through leaders talk by alumni, industry oriented projects, paper presentation in conferences/symposia, participation in workshops / seminars, value added courses, In-plant / On-site training, etc.
- Unit-wise test question papers were prepared in accordance with Bloom's taxonomy to evaluate them in all levels of learning.
- The field / industrial visits were arranged to the students to be familiar with the recent developments in industrial scenario.
- The students were encouraged to attend the internship trainings to get practical exposure from various industries.

2.7   Total No. of actual teaching days

during this academic year

180 Days

2.8   Examination / Evaluation Reforms initiated by

the Institution (for example: Open Book Examination, Bar Coding,

Double Valuation, Photocopy, Online Multiple Choice Questions)

As   per   Anna University Regulations

2.9   No. of faculty members involved in curriculum

restructuring/revision/syllabus development

as member of Board of Study/Faculty/Curriculum

Development workshop

1

2.10 Average percentage of attendance of students

Civil	CSE	EEE	ECE	EIE	Mech	Chemical	MBA	MCA
85	93.78	87.16	85	94.05	89.42	85	95	99

2.11 Course / Programme wise distribution of pass percentage*:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.E. – Civil	67	--	58.20	14.92	--	73.13
B.E. – CSE	101	--	70.29	15.84	--	86.1
B.E. – EEE	65	--	56.92	26.15	16.93	83.07
B.E. – ECE	113	2.65	64.60	13.27	--	80.5
B.E. – EIE	48	--	62.5	25.00	--	87.50
B.E. – Mech	65	4.61	76.92	12.30	--	93.84
B. Tech – Chemical	70	3.77	84.91	11.32	--	75.71
M.E. – Manufacturing Engineering	05	--	100.00	--	--	100.00
M. E. – Computer Science and Engineering	07	28.57	28.57	--	--	57.14
M.E. – Power Electronics and Drives	03	--	100.00	--	--	100.00
M. E. – Applied Electronics	01	--	100.00	--	--	100.00
M. E. – Environmental Engineering	18	16.67	77.77	--	--	94.44
MBA	31	--	83.88	9.68	--	94.00
MCA	59	32.14	67.86	--	--	94.92

*   Results are yet to be published

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

Contribution

- Apart from the prescribed syllabus, content beyond syllabus is also provided by the faculty members to widen their knowledge in every subject.

- Inviting experts from the leading industries and reputed institutions like NITs, IITs to deliver lectures to bridge the knowledge gap between industry and institution.

- Motivating the students to participate inter-collegiate workshops, symposia, technical contests and seminars.

- Organizing enrichment courses like personality development programmes, seminars, training programmes, conferences, symposia and technical exhibitions to cultivate the students' attitude and creativity.

- Preparing academic calendar at the beginning of every semester that consists of departmental activities like symposiums, workshops, conferences, guest lectures, leaders talks, unit tests, class committee meetings, course committee meetings, industrial visits, project expos, model theory and practical examinations, etc., for effective planning of teaching learning process.

- Based on the industrial requirements, all the departments are organizing special workshops and value added courses to bridge the Industry-Institute gaps.

- Special attention for the slow learners is given through mentoring, coaching classes after the working hours.

- Preparing detailed lesson plans for each theory and laboratory course including the unit test periods before the commencement of the classes for effective teaching.

- Preparing time table to execute the lesson plans for optimum utilization of time allocated for all the courses. Besides the regular curricular activities, few periods are allocated for co curricular & extracurricular activities such as sports, library, seminar, placement classes etc.

Monitoring

- Reviewing the progress of syllabus completion, performance of the students, association activities in the department level meetings.

- Reviewing every course log books (both theory and laboratory) by the HoD at least twice in a month and the same by the Principal once in a month to monitor the effective completion of the courses.

- Conducting class and course committee meetings once in a month to review the progress of the course, performance of the students, association activities, placement activities, etc.

Evaluation

- Evaluating the students' academic performances continuously through the unit tests, model examinations and university results.

- Evaluating the performance of students' in co curricular and extracurricular activities at the end of every semester.

- Collecting feedbacks about the faculty from the students twice in a semester to evaluate the effective delivery of the course, knowledge sharing, time management and etc.

- Conducting internal academic and internal quality audit at the end of the each semester to evaluate progressive implementation of lesson plan, course outcomes and department association activity plans.

- Evaluating students' performance in laboratory classes continuously in each and every practical class through viva voce and model practical examinations at the end of the portion completion. They are motivated to involve in real time projects and present their innovative ideas in national and international conferences

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted									
	Civil	CSE	EEE	ECE	EIE	Mech	Chem	MBA	MCA	S & H
Refresher courses	6	2	0	7	0	18	4	0	10	0
UGC – Faculty Improvement Programme	0	0	0	0	0	17	2	0	0	0
HRD programmes	1	7	0	0	0	18	1	0	10	0
Orientation programmes	3	12	13	5	0	16	8	0	10	0
Faculty exchange programme	8	0	3	0	0	1	0	0	1	0
Staff training conducted by the university	15	0	0	0	0	1	0	0	0	3
Staff training conducted by other institutions	9	12	5	0	0	11	4	0	10	4
Summer / Winter schools, Workshops, etc.	2	12	45	0	15	5	6	0	13	0
Others	0	3	26	0	0	0	0	0	0	0

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	27	-	-	-
Technical Staff	43	-	-	7

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- Encouraging the faculty members to submit research proposals for conducting seminars, workshops, FDPs and conferences to various funding agencies and research organizations like DST, DRDO, MoES etc. They are also encouraged to submit proposals for project funding.
- Encouraging the students to submit project proposals to various funding agencies and research organizations under student project scheme.
- Motivating the faculty members and students to involve in research activities by making them to attend workshop, seminar and conference related to their research / major thrust areas.
- Sponsoring the faculty members to pursue higher studies under part time / full time basis.
- Promoting consultancy activity by providing incentives.
- Supporting the faculty members to carry out the in house project works by getting research grants from the management.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	5	-	74
Outlay in Rs. Lakhs	-	91.67	-	391.00

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	05	5	-	81
Outlay in Rs. Lakhs	1.2	1.46	-	24.85

3.4   Details on research publications

	International	National	Others
Peer Review Journals	41	6	-
Non-Peer Review Journals	8	-	-
e-Journals	7	-	-
Conference proceedings	70	77	-

3.5 Details on Impact factor of publications:

Range | 0.1-5.0 | Average | 1.12 | h-index | 16 | s. in SCOPUS | 1

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned in lakhs	Received in lakhs
Major projects	2-3	NRDMS - DST/DST, BRNS-DAE/AICTE	71.42	39.09
Minor Projects	1	TNSCST	0.075	0.075
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	ESEC	3.07	3.06
Students research projects (other than compulsory by the University)	1	FAER, AIEEE (R-10)	1.04	0993
Any other(Specify)	Seminar grant / travel grant	EDII, ICMR, ICSSR	2.36	1.30
Total (in lakh)	-	-	77.965	44.518

3.7 No. of books published   i) With ISBN No. | 4 | Chapters in Edited Books | -

ii) Without ISBN No. | 2

3.8 No. of University Departments receiving funds from

UGC-SAP | - | CAS | - | DST-FIST | -

DPE | - | DBT Scheme/funds | -

3.9 For colleges   Autonomy | - | CPE | - | DBT Star Scheme | -

INSPIRE | - | CE | - | Any Other (specify) | -

3.10 Revenue generated through consultancy

Rs. 4.80 lakhs

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	1	6	-	-	-
Sponsoring agencies	-	TNSCST, ESEC	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons   38

3.13 No. of collaborations   International   2   National   3   Any other

3.14 No. of linkages created during this year   6

3.15 Total budget for research for current year in lakhs :

From Funding agency   39.09   From Management of University/College   9.50

Total   48.59

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	1
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

3.17 No. of research awards/ recognitions received by faculty and research fellows

Of the institute in the year

Total	International	National	State	University	Dist	College
3	1	1	-	1	-	-

3.18 No. of faculty from the Institution
   who are Ph. D. Guides   6

   and students registered under them   12

3.19 No. of Ph.D. awarded by faculty from the Institution | 3 |

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF | 4 | SRF | - | Project Fellows | 1 | Any other | - |

3.21 No. of students Participated in NSS events:

University level | 100 | State level | 10 |

National level | 5 | International level | - |

3.22 No. of students participated in NCC events:

University level | - | State level | - |
National level | - | International level | - |

3.23 No. of Awards won in NSS:

University level | 4 | State level | 2 |
National level | - | International level | - |

3.24 No. of Awards won in NCC:

University level | - | State level | - |
National level | - | International level | - |

3.25 No. of Extension activities organized

University forum | 1 | College forum | - |

NCC | - | NSS | 1 | Any other | - |

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- **'Digital Literacy Programme'** was conducted for a total of 154 school teachers to enhance their computer knowledge in preparing digital contents.
- Hands on training on '**MS-Office and C Programming**' was given to the higher secondary school students invited from nearby schools.
- A one day workshop on field study '**Computer Servicing and Networking**' was organized for Kongu Velalar polytechnic students.

- The institution is having various clubs like NSS, NCC, YRC, RRC, etc., to involve the students in social activities to inculcate team sprit & social awareness. The following are some of the social activities regularly carried out in the college.
  - o Free home appliances service camp
  - o Tree plantation
  - o Village cleaning and maintenance
  - o Blood donation camp
  - o Medical camp
  - o Trekking
  - o Tribal camp
  - o Consumer awareness
  - o Aids awareness rally
  - o Voter awareness rally
  - o Rain water harvesting and etc.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	55.54	-	-	55.54
Class rooms	64	-	-	64
Laboratories	79	-	-	79
Seminar Halls	11	-	-	11
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	110	8	-	3
Value of the equipment purchased during the year (Rs. in Lakhs)	273	17	Institution, BRNS	5.00
Others	-	-	-	-

4.2 Computerization of administration and library

- ICT and other tools are deployed to provide maximum access to the library resources. Digital library is functioning with internet facility for e-access.

- DELNET membership e – journals like Science Direct and other journals along with downloading facilities is available in the college digital library.

- The institution is fully computerized at the administration and academic levels. Internet facility is made available at the library and entire campus set with Wi-Fi.

- Central Library is using the PALPAP Library Software with various modules for all library activities.

- Bar coded based issue / return of books is followed.

4.3   Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	42470	73,80,294.00	2891	3,25,034.00	45361	77,05,328.00
Reference Books	9067	39,77,670.00	324	99,317.00	9391	40,76,987.00
e-Books	-	-	-	-	-	-
Journals	248	418447.00	Renewal Only	-	248	418447.00
e-Journals	DELNET membership Journals	11,500.00	DELNET membership Journals	11,500.00	DELNET membership Journals	11,500.00

Digital Database	2615	-	70	-	2685	-
CD & Video	-	-	-	-	-	-
Back Volume	4755	-	417	-	5172	-
Students Project Report	2209	-	651	-	2860	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	981	13	64 mbps	2	13	12	64	-
Added	-	-	-	-	-	-	-	-
Total	981	13	64 mbps	2	13	12	64	-

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

The institution is having separate System Maintenance Cell (SMC) for procurement, up gradation, deployment and maintenance of Computer and their accessories. Training in networking, e-Governance is provided by the SMC to the faculty members.

4.6 Amount spent on maintenance in lakhs :

i) ICT

1,32,392.00

ii) Campus Infrastructure and facilities

72,35,581

iii) Equipments

9,74,570

iv) Others

-

Total :

82,10,151

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Internet facility with Wi-fi connectivity is made available throughout the campus to support the students in enhancing their knowledge with easy digital access.

- Special courses in spoken English, spoken Hindi and Business English Certificate course (BEC), competitions in extempore speech, debate and essay writing are organized regularly to improve their communication skills.

- Subject wise special coaching classes for slow learners are conducted during the evening hours.

- Entrepreneurship Development Cell organizes periodical meetings with industrialists, entrepreneurs and chief executives of various concerns to enhance the entrepreneurship skills among the students.

- The Industry Institute Partnership Cell builds Industry and Institute relationship for the welfare of the students by organizing regularly guest lectures, seminars, workshops, conferences, industry visits, in-plant training, internships and campus connect programmes.

- Placement & Training Cell organizes various training programmes to mould the students with core competency and employability.

- Library is equipped with various books, references, journals and e-journals to supplement the thrust of students and to enrich their self learning ability.

- A Grievance Redressal Cell is constituted to address the grievances of the students and parents through feedback.

- Student association in each department organizes various programmes to widen their exposure in their respective field.

- National Service Scheme [NSS], Rotaract club & other clubs encourage the students to take part in community development activities

- Students' feedback system is followed to obtain opinion from them about the effectiveness of the faculty and the facilities in the college.

- Medical insurance for accidental and risk coverage is offered to all the students

- Student support services like multi-disciplinary forums, association with professional bodies, alumni interactions, student forums / clubs, language laboratory, cash incentives to student achievers are provided.

- Career Guidance Cell helps the students in guiding them for their higher education.

- Women Development Cell empowers the girl students and female faculty members.

5.2 Efforts made by the institution for tracking the progression

- Department meetings are being conducted twice in a month to monitor the progress of the action plan.
- Academic audit is being conducted every semester to evaluate the progress.
- Four Internal Quality Audits are being conducted every year to review the attainment of the quality objectives.
- Programme Assessment Cell meeting is being conducted once in a year to ensure the effective functioning of the department.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2166	300	-	-

(b) No. of students outside the state

2

(c) No. of international students

-

Men

No	%
1808	73.32%

Women

No	%
658	26.68%

87   209   13 L 1979   -   2288   90   260   24 ´ 2092 ₁r   -   2466
                         Challenged   Challenged

Demand ratio -   Dropout % - 3.65% (20 students out of 548)

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Career Guidance Cell is organizing the coaching classes for the students to face competitive examinations like GATE, GRE, CAT, etc.
- "Studies Aboard" programme is organized for all the final year students to give guidance for their overseas education.
- The department specially conducts special coaching to the students for competitive examinations.
- Experts are invited to motivate and provide training to the students for competitive examinations like GATE, CAT, UPSC, TNPSC etc.

No. of students beneficiaries

Civil	CSE	EEE	ECE	EIE	Mech	Chemical	MCA	MBA
66	20	63	6	39	65	113	0	147

5.5 No. of students qualified in these examinations

NET [-]   SET/SLET [-]   GATE [35] CAT [-]

IAS/IPS etc [-]   State PSC [1]   UPSC [-]   Others [9]

5.6 Details of student counselling and career guidance

Counselling:

- Counselling is provided to the students as a psychological support.

- Course coordinators counsel students of poor academic performance, for their improvement in the studies.

- Weekly a period is allocated in the time table for student counselling, students are encouraged to convey their grievances and needs more freely to the mentors.

- Student mentors deal with all the students having social, economical and personal problems.

- Yoga classes are being conducted to improve their concentration in studies and strengthen their memory power.

- Full Moon Day celebrations are being organized for hostel students for their mental relaxation.

Career Guidance Cell:

- The Career Guidance Cell is catering to the needs of students with the following objectives

  o To organize programmes to create awareness on the importance of higher studies in India and Abroad.

  o To organize coaching classes for competitive exams such as CAT, GRE, GMAT and to counsel them for higher studies.

  o To conduct orientation programmes for freshers.

No. of students benefitted

Civil	CSE	EEE	ECE	EIE	Mech	Chemical	MCA	MBA
250	202	183	150	108	318	113	82	147

5.7 Details of campus placement

	On campus		Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
55	334	295	06

5.8 Details of gender sensitization programmes

- Women Development Cell organizes several programmes to enhance the confidence level of girl students for their empowerment in the society.
- Women Development Cell organized the following programmes during the academic year.
  - Medical Camp was organized for caring the Girl students and ladies staff of the College in association with Erode Trust Hospital, Erode on 21-09-2015.
  - Conducted an Awareness Programme on Quality Learning in Women's Education at Sengunthar Girls Higher Secondary School, Erode on 29-09-2015.
  - Motivational training programme was organized in association with Sudar Social Service Association, Sathy, for the higher secondary students of Government Tribal Welfare Residential School, Aasanoor on 28-10-2015.
  - International Women's Day was celebrated on 08-03-2016.

5.9 Students Activities

5.9.1   No. of students participated in Sports, Games and other events

State/ University level | 3 | National level | 2 | International level | -

No. of students participated in cultural events

State/ University level | - | National level | - | International level | -

5.9.2   No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level | - | National level | - | International level | -

Cultural: State/ University level | - | National level | - | International level | -

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	541	1,36,08,750.00
Financial support from government	1276	3,35,73,420.00
Financial support from other sources	4	24,000.00
Number of students who received International/ National recognitions	-	-

5.11   Student organised / initiatives

Fairs   : State/ University level | - | National level | - | International level | - |

Exhibition: State/ University level | - | National level | - | International level | - |

5.12   No. of social initiatives undertaken by the students

S.No.	Name of the Clubs	No. of Social Initiatives
1	Rotaract Club	65
2	NSS	14
3	Tribal Welfare Committee	03
4	Leo Club	02
5	Blood Donation Club	03
6	Youth Red Cross	03
7	Red Ribbon Club	03
8	Women Development Cell	06
9	Tamil Mandram	11
10	Yoga Club	07
11	Staff Club	05
12	ESEC Karate Club	02
13	Mugil FM	13
14	Reader's Club & Makkal Sinthanai Peravai	06
15	English Literary Club	08
16	Driving Learners Club	04
17	Trekking Club	02
18	Renewable Energy Club	02
19	Maths Club	03
20	Citizen's Consumer Club	01

5.13 Major grievances of students (if any) redressed:

S.No.	Grievances represented by the students	Action taken
1	New bus route requested.	Two bus routes are established during this academic year.
2	Cricket net platform is requested.	Cricket net platform is constructed.
3	Indoor badminton court is requested.	Indoor badminton court is constructed.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

Erode Sengunthar Engineering College strives with determination and commitment to provide and promote world class Technical Education, in particular to the students of backward rural areas, transforming them into holistic personalities embedded with discipline, skill and responsibility that make them patriotic, successful, and self-developed professionals ready to accomplish any job in their career and life.

MISSION

IM1: Provide an idyllic study atmosphere, fine infrastructure, qualified and dedicated faculty and standardized systems for a strong career foundation.

IM2: Aid and motivate the students and faculty alike for maximum utilization of facilities, making them innovative and creative in thinking and research, in order to provide technical service to industry and society.

IM3: Develop multi-skilled personalities to make ESEC, a world leader in Technical Education.

6.2 Does the Institution has a management Information System

Yes, ERP Software Tool is used to for entering the student attendance, marks, and report generation.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

The college is affiliated to the Anna University, Chennai and follows the curriculum and syllabi prescribed by it. The institution does not frame any new curriculum for any of the courses offered on its own. However, the college organizes guest lectures, seminars, industrial visits and various training programmes to supplement the curricular inputs

6.3.2 Teaching and Learning

The college follows the following methods to ensure better teaching and learning process

Academic calendar

An academic calendar is prepared at the beginning of every semester that consists of a planned schedule of departmental activities and functions like symposiums, workshops, conferences, guest lectures, internal assessments, class committee meetings, course committee meetings, industrial visits, project expo, model theory and practical examinations, association activities, annual day celebration, hostel day and convocation day.

Lesson plan

Lesson plans are prepared well in advance to complete the syllabus within the period prescribed by the university. Course and lecture plans prepared by the faculty are well-structured for the effective delivery of course.

Time Table

The time table is prepared for all the theory and laboratory courses in adherence to the Anna University curriculum. The class hours are planned to ensure optimum utilization of time period for effective teaching. Besides, few periods are allocated for other co-curricular and extracurricular activities such as library, seminar, placement classes, sports, etc.

Assessment Tests

Four unit tests and a model examination are being conducted in a semester. In accordance with Anna University norms, the internal marks are calculated based on the performance of the students in the assessment tests.

Practical Courses

Students' performances in practical courses are assessed continuously in each and every class through viva voce and model practical examinations.

Tutorial

In the tutorial classes, students are given a set of problems under the guidance of three faculty members. Spoken tutorial workshops on various open source software like SciLab, Python, etc. are organized with the support of Anna University, Chennai and IIT, Bombay.

Projects

Students are trained to do mini projects to improve their knowledge on the applicability of the subject in real time problems.

Knowledge Sharing Session

Knowledge Sharing Session is scheduled regularly to enable the technical interaction among the students of various branches to know the latest development in different fields.

Class Room Teaching

- Conventional blackboard and chalk method make the students learn the subjects with more comfort.
- Animated Videos are used to convey the concepts and methodologies for better learning.
- Analogy based teaching methodologies are followed.
- Video lectures by experts on problem oriented subjects are shown to the students to ease the learning process.
- Power point presentations are used for better learning.
- Imparting practical learning with the state of the art facilities.

Innovative teaching learning process

Apart from regular lectures, a keen attention is paid on activity based learning for improved self-learning.

- The learning process has been made learner centric with forums such as Knowledge sharing sessions and Webinars for students and faculty members to make them well versed in global affairs of various fields.

- The independent learning keeps the students abreast of the latest knowledge and gives opportunities to acquire the best quality of subject by reading the books, journals, newspapers and online tests.

- Field visits to industries make the students learn recent technologies & Industry culture.

- Real time projects lead the students for lively learning experience.

- Internship opportunities impart practical learning experience.

- Apart from regular classes, special hours have been allotted for placement, library and seminar to unleash students potential and presentation skills on any topics related to the curriculum. Also, National Programme on Technical Enhanced Learning (NPTEL) classes being conducted to enhance and improve the students learning skills.

- Sponsoring for faculty members to attend various training programmes / workshops / seminars / conferences with registration fee & on-duty permission.

Quality of student projects

- Quality of student's project is ensured by permitting them to do the real time industry oriented projects.

- The students are also permitted to make use of research facilities available in the department to carry out their projects.

- The students make use of various technical software available in the department to analyze and synthesize their project.

- The students demonstrate their project in state / national level project competitions and fetch appreciations / prizes. [Eg. Young Scientist award by '**Makkal Sinthanai Peravai'** to Mr. L. Jerish Raj]

- Projects of some of the students have been filed for obtaining Intellectual Property Rights [Eg. IPR was filed for the project titled 'Automatic gas leakage arrester' by III year Mechanical Engineering students Mr. R. Gokul Krishnan & Mr. L. Jerish Raj]

The above activities ensure the quality of the student's project.

Assignments

Assignments are given to the students so as to improve their intelligent quotient, self learning and logical thinking. Student has to answer the assignment by applying knowledge on engineering sciences, recent trends and contemporary issues. Assignment kindles their out of box thinking, which helps the students to attain certain POs and PSOs.

6.3.3 Examination and Evaluation

- For theory courses, unit tests are conducted periodically as per the schedule. Set of question papers are prepared by the subject handling faculty members and the same are approved by the HoD. Faculty distributes the valued answer scripts and briefs the performance of the students. After examination, the class adviser prepares the consolidated mark list of all the students, get approval from the HoD & Principal and the mark lists are sent to the parents. For slow learners, special classes are conducted after the working hours for the required subjects.

- For laboratory courses, assessments are made continuously by correcting laboratory observation and record note books, asking viva voce question related to the experiment to evaluate the performance of the students. The model examinations for the laboratory courses are also conducted for the students to do the university practical examinations effectively.

6.3.4 Research and Development

- The Research and Development Cell is established with an objective of promoting research by students and the faculty members in newly emerging and challenging areas of Engineering, Technology, Science and Humanities. R&D Cell encourages the faculty members and students for sending research proposals and receiving funds from various research bodies.

- Promotion of research among students / faculty members is done by encouraging them to participate in conferences / project exhibitions / journal writing. Special lectures are given by experts to inculcate interest about research. Faculty members / students who received funds are also awarded with cash prizes and certificates.

- The Management provides up to Rs. 50,000 as research fund for researchers to carry out innovative research projects under in-house project scheme.

- Faculty members and students are motivated to publish their research papers in reputed national and international journals / conferences. Faculty members are guiding the students to do grant-in-aid research under student project scheme. Experts from reputed institutions are invited for R & D related interactions. The project proposals are usually examined and evaluated by the Project scrutinizing committee before they get sent to the funding agency.

- During the report period, Rs. 97.235 lakhs was fetched as Research fund for carrying out the Research projects.

- During the report period, funding proposals worth of Rs. 7,91,49,778 was submitted to various funding agencies like DST, AICTE, DRDO, etc.

6.3.5   Library, ICT and physical infrastructure / instrumentation

Library:

Library has more than 1600 e-journals which include Science direct and DELNET, etc. and more than 5172 back volumes for all the departments. Digital library facilities with National and International online journals are also provided. Library administrations like issue / return of books are maintained through commercial library software. The library building is enabled with Wi-fi facility. Every year, additional volumes of books are added based on the requirements from all the departments.

ICT:

All class rooms, tutorials rooms, seminar halls, laboratories pertaining each department is enabled with ICT tools. National Programme on Technology Enhanced Learning (NPTEL) Centre has been established to promote the students to listen the video lectures of eminent Professors of IITs, and IISc. QIC organizes spoken tutorial workshops on various open source softwares like SciLab, Python, etc. are organized with the support of Anna University, Chennai and IIT, Bombay. A separate server with e-materials and videos is available in all the departments for the access of the students and the faculty members. For every subject, power point presentation is being prepared by the faculty members and it is used for taking classes in an interactive way.

Physical infrastructure/instrumentation:

- The Institution has more than 20 buildings with built up area of 22,382.15 sq.m. for academic purposes including 13,514.92 sq.m.. for hostel and other amenities.

- The campus manager is monitoring the maintenance of academic infrastructure and other facilities.

- A dedicated team of about 20 employees under the supervision of the Horticulturist functions exclusively for maintaining the green landscape.

- The maintenance of the equipment, learning resources is monitored by the concerned departments respectively. The good maintenance work is carried out through the campus maintenance, system maintenance and outside vendors with proper approval.

- Two civil supervisors are employed under the supervisor of campus manager to carry out construction of additional / new facilities and maintenance of the campus.

- Separate cell in the name of system maintenance cell is functioning for procurement, upgradation, deployment and maintenance of computer and their accessories in the Institution.

- A separate wing is operated under the headship of vehicle maintenance In-charge to procure, service and maintenance of vehicles.

- The green ambience of the campus is maintained by the campus office.

6.3.6 Human Resource Management

- The institution has a mechanism of notification of regular posts and conductivity interviews. It recruits faculty members (both teaching and non-teaching) based on the guidelines provided by the affiliated university. Adequate number of qualified faculty members has been appointed through the procedure of open advertisement and interview by expert committee. The newly recruited faculty members are deputed to undergo faculty development program to enhance the Teaching Learning process.

- Arranging various orientation programmes for both teaching and non-teaching faculty members for upgrading their skills in their respective fields using latest technology.

- Incentives are given to the faculty members for presenting research papers in reputed Journals / International and National Conferences.

- Medical Insurance is provided to the faculty members with the coverage for their spouse, dependent parents and children to the extent of Rs.1,00,000.

- The institution has provided a maternity leave period of 3 months with salary for women faculty members.

- Provides sabbatical assistance to faculty members for their continued service in the institute, for pursuing higher studies, conducting research by spending time away from institute. An approval is granted maximum for a period of six months.

- Faculty members are deputed to undergo faculty development programme, seminars and workshops to enhance the Teaching Learning process and upgrade their skills by learning the latest technology. It is ensured that the faculty members render their service with entire job satisfaction. They are motivated and assisted by the college for the professional upliftment.

6.3.7 Faculty and Staff recruitment

The faculty members (both teaching and non-teaching) are hired as per the norms provided by the Affiliated University. A larger pool of potential employees is short listed and they are assessed, interviewed and hired by well experienced academicians from reputed Institutions.

6.3.8 Industry Interaction / Collaboration

- The institution emphasizes upon career development of the students. This can be achieved by establishing MoUs with reputed core industries to enhance Industry-Institute Interaction activities like internships, industrial visits, in-plant trainings, value added courses, industrial projects, guest lectures etc., for the benefit of students.
- Established a Memorandum of Understanding with foreign university, Asia Pacific University of Technology & Innovation, Malaysia. The activities like online guest lectures, collaboration in Research and Development projects are in progress.
- Industry Institute Partnership Cell (IIPC) is functioning for enhancing the industry-institute relationship. The different kinds of activities which are followed in IIPC are given below.
  - ➢ Arranging industrial visits, in-plant training and internship programmes to the students, for getting practical exposure and knowledge in the industrial environment.
  - ➢ Providing internship training programme for the faculty members from industry to update their knowledge on present day industrial scenario.
  - ➢ Collaborating with the industry for R & D Projects.
  - ➢ Conducting awareness programmes on entrepreneurship skills and engineering and technological fields.
  - ➢ Conducting training programmes through T & P Cell to all students from first semester onwards.
  - ➢ The cell invites experienced academicians, leading professionals with extensive corporate experience and entrepreneurs to address the students and thereby facilitate practical learning.

6.3.9 Admission of Students

Admission Procedure:

Admissions are made upon the basis of Tamil Nadu Engineering Admissions–single window system procedure for the government quota students and through the consortium of self financing engineering colleges for the management quota students. It is mandatory that Post Graduate students should appear for the Tamil Nadu Common Entrance Test (TANCET) for admission under the Government quota.

For admitting students under management quota, they should appear for the Common Entrance Test conducted by consortium of Engineering colleges. Lateral entry admission is done by the institution satisfying the minimum marks prescribed by the Government.

UG Programmes

For admission into the engineering courses, candidates should pass the higher secondary examinations of (12th pattern) curriculum (Academic stream) with Mathematics, Physics and Chemistry as optional or any examination of any other university or authority accepted by the syndicate of Anna University

as equivalent thereto or Higher Secondary examinations of vocational stream in the fields of engineering and technology as prescribed by the Government of Tamil Nadu. The minimum marks prescribed by the Government of Tamil Nadu under academic and as well as vocational stream are listed below.

Table 1. Minimum Marks for H.Sc. (Academic) and other Equivalent Candidates

Average Marks in Physics, Chemistry and Maths	OC	BCM	BC	MBC/DNT	SC
	ST	50%	45%	45%	40%

Table2. Minimum Marks for H.Sc. (Vocational)Candidates

Average Marks in Maths / Physics / Chemistry / Vocational Subject Under Part-III	OC	BCM	BC	MBC/DNT	SC
	ST	50%	45%	45%	40%

Students from other states

Students who have passed the qualifying examinations of University / Board other than Madras / Madurai / Annamalai / Bharathiar / Bharathidasan University should obtain the Provisional Eligibility Certificate from the Registrar, after being admitted in the college. If the qualification for any reason is not recognized by Anna University, the candidate will have to discontinue the course.

Lateral Entry Scheme:

A pass with minimum eligible marks in the Diploma Course of the Directorate of Technical Education, Tamil Nadu / Relevant Degree for the Lateral is as follows:

Average Marks in Pre-final and Final semester	OC	BCM	BC	MBC/DNT	SC
	ST	50%	45%	45%	40%

For the purpose of calculation of marks in respect of sandwich diploma passed candidates, marks secured in the 5th and 6th semesters shall be considered. If the industrial training intervenes in any one of the last two semesters, the marks of the previous semester in which there is no industrial training shall be considered for the purpose of calculating the marks.

Single Window System

65% of the seats are filled through single window system. Admission to the various UG courses of study is done in accordance with the statutory provisions of the Anna University and the Government of Tamil Nadu. The seats under Government quota are filled through the single window system of admission based on Higher Secondary examination marks.

Management Quota

Maximum of 35% of the seats are filled by the management. The seats under management quota are filled through consortium of self-finance engineering colleges in Tamil Nadu.

PG Programmes

The PG programmes comprise four semesters (2 years) for M.E. / M.Tech. / M.B.A. and six semesters (3 years) for M.C.A.

Eligibility for Admission to PG Courses

S.No.	ELIGIBILITY	
M.E. Manufacturing Engineering		
1.	B.E. / B.Tech. 1.Mechanical Engineering 2.Automobile Engineering 3.Manufacturing Engineering 4.Production Engineering	5.Aerospace Engineering 6.Industrial Engineering 7.Mechatronics Engineering 8.Marine Engineering 9.Aeronautical Engineering
M.E. Power Electronics and Drives		
2.	B.E. / B.Tech. 1.Electrical and Electronics Engineering 2.Electronics and Communication Engg 3.Electronics and Instrumentation Engg	4.Instrumentation and Control Engineering 5.Electronics Engineering 6.Instrumentation Engineering
M.E. Applied Electronics		
3.	B.E. / B.Tech. 1. Electrical and Electronics Engineering 2.Electronics and Communication Engg 3.Electronics and Instrumentation Engg	4.Instrumentation and Control Engineering 5.ElectronicsEngineering 6.Instrumentation Engineering
M.E. Computer Science and Engineering		
4.	B.E. / B.Tech. 1.Electronics and Communication Engg 2.Information Technology 3.Computer Science Engineering. 4.Software Engineering	M.Sc. (5 years integrated) 1.Information Technology 2.Computer Science 3.Software Engineering
M.E. Environmental Engineering		
5.	B.E. / B.Tech. (Civil)	
M.B.A.		
6.	Degree with 55% marks in case of Engineering & Science and 50% marks for arts science.	
M.C.A.		
7.	A graduate in any discipline with Mathematics / Statistics / Computer Science as a subject.	

6.4 Welfare schemes for

Teaching	• Staff Club
Non teaching	• Maternity Leave
	• Incentives & Allowance
	• Medical allowance and Employees Provident Fund are provided to all the faculty members.
Students	• Student health care monitoring
	• Student health insurance
	• Scholarship provided by central and state government.
	• Fees concession for the students having good academic background

6.5 Total corpus fund generated

$(Rs. \ 44.518 \ + \ 4.88) \ = \ 49.398$

6.6 Whether annual financial audit has been done [√] [ ]

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic			Yes	
Administrative			Yes	

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes   Yes   No   [√] [ ]

For PG Programmes   Yes   No   [√] [ ]

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Not Applicable. Since the college is affiliated to Anna University, Chennai.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Not Applicable

6.11 Activities and support from the Alumni Association

- Alumni association organizes various alumni meets in different locations such as Bengaluru, Chennai, and Coimbatore apart from that in College Premises.
- This Association brings Alumni as resource persons for association inaugural function, leader of the month, sports day, annual day, job offer day etc.
- Our alumni help the students in placement through their references.
- The Alumni activities are published in the newsletters and social media.
- Alumni convey their feedback periodically about the curriculum and content delivery. These feedbacks are consolidated and reviewed in Programme Assessment Cell (PAC) & Academic Assessment Cell (AAC) meetings.
- Leaders' talks are offered to the students by the eminent alumni to gives the awareness about industrial requirements.
- Inviting alumni to the college regularly to interact with the students to improve their employability skills.
- Providing financial support for the needy students
- Providing training in the latest software / hardware
- Providing guidance to do innovative projects.

6.12 Activities and support from the Parent – Teacher Association

Parents – Teachers meeting is regularly conducted for the betterment of the students in their studies. The queries posted by the parents are noted and would be solved in the forthcoming semesters. This meeting would facilitate the parents to convey their ideas for their wards better performance in curricular, co-curricular and extracurricular activities.

6.13 Development programmes for support staff

The following programmes were conducted for the supporting staff to develop their skills.

S.No.	Programme	Date	Resource Person	Beneficiary
1	One Day workshop on OSCAD	18.11.2015	Online Workshop conducted by IIT-Bombay	Non-Teaching faculty members of ECE
2	"Demonstration program on ARM Processor Kit"	20.01.2016	Mr. Mahendran, Sales and Service Engineer, Megatronics, Coimbatore.	Non-Teaching faculty members of ECE
3	"Hands on training program on Embedded System" for the faculty Members of ECE	12.01.2016	Mr. Naveen Karthik, Sales and Service Engineer, VI Microsystems, Chennai.	Non-Teaching faculty members of ECE
4	"Hands on Training on "MS-Word and Basics of Computer Hardware"	15.03.2016 and 16.03.2016	Department of Computer Science and Engineering at Erode Sengunthar Engineering College	All Non Teaching Faculty

6.14 Initiatives taken by the institution to make the campus eco-friendly

- The college is showing keen interest in planting and growing trees inside the campus. At present more than 7500 trees are full grown. The trees are periodically maintained by applying periodically maintained by applying pesticides, cutting unwanted branches, white washing the bottom portion of the trees, etc., Recycled water is fed to the trees. The college twice awarded as 'Protector & Trees' by Sakthi Masala Limited, Erode.

- The College is green conscious and the following initiatives are made to keep the campus eco friendly
    o Zero Pollution Green Campus
    o Solar Power Plant
    o Solar Water Heater
    o Solar Street Lights
    o Rain Water Harvesting Plants
    o Rain Water Collection Ponds
    o Bio Gas Plants
    o Sewage Treatment Plant
    o Restricted Vehicle Movement
    o No Smoking Campus

Criterion – VII

7. Innovations and Best Practices

7.1   Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- 5S concept is being implemented in the Mechanical Engineering Department on a trail basis to ensure safety and orderliness. External auditors from the industry visited the departments and appreciated. The College has been awarded third place at district level by Confederation of Indian Industry among the various industries / institutions.
- Lesson plan for each course is prepared for the systematic content delivery.
- Lecture notes, two marks Question and Answer, etc., are provided to the students in soft & hard forms.
- Faculty members are grouped based on their specialized domain to enhance the research activities.
- Technical training programme is being conducted for Chemplast – Sanmar Industrial employees to enhance the industry-institute interaction activities.
- Students are given responsibilities to organize functions in order to improve their organizational and leadership skills.
- Discipline committee monitors the discipline and punctuality of the students which in turn help for good academics.
- Full moon day is being celebrated every month for mental relaxation of both hostel inmates and

7.2   Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Plan of action for department	Action taken
To achieve university ranks in Anna University Examinations.	Creamy layer students were identified and they were counselled to improve their performance.
Among the total strength, 70% of final year students have to appear for the GATE examination.	Students were motivated to appear for GATE exams. Relevant materials are kept in the library for students' reference.
At least 15% of final year students have to appear for the GRE and TOEFL examinations.	Students were motivated by Career Guidance Cell to appear in the GRE and TOEFL examinations and also they were motivated to learn foreign languages.
75% of final year students have to place in the reputed core industries	In the year of 2015 – 16, 27 core and 52 multinational companies visited the college for campus for recruitment and 521 offers were issued to 403 students.

At least two products have to be filed for patent rights.	Core projects in the department have been identified and the processes of transforming them into patentable products are in progress. One patent was filed by the Mechanical Engineering Department.('Automatic gas leakage arrester' by III year Mechanical Engineering students Mr. R. Gokul Krishnan & Mr. L. Jerish Raj)
To establish at least two Memorandum of Understanding with reputed industries.	Process of identifying industries is in progress. This year 17 MoU's have been signed with various industries.
To establish one industry extension centre at each department.	Process of identifying industries is in progress.
To motivate the faculty members to pursue higher studies.	Faculty members were given sponsorships to pursue their higher studies. 35 faculty members are pursuing Ph.D. currently.
To motivate the faculty members to publish the papers in referred international journals.	Faculty members were motivated to publish their innovative / research ideas in referred journals. 184 papers were published during the academic year 2015-16.
To fetch funds for research proposals.	Faculty members were given instruction to identify funding agencies and apply funding for their projects. This year Rs. 97.235 lakhs were received from funding agencies to conduct seminars / workshops / conferences / to do projects.

7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)

- **In – house Research Funding**

  Faculty members are provided with the research grants by the management to carry out their research under In-house research funding scheme and also they are supported by giving incentives for their consultancy activities.

- **Knowledge Sharing Session**

  The college follows the practices of Knowledge Sharing Session (for both faculty members and students), on turn basis, faculty members and students will make the presentation on recent technology and socially relevant topics. In this event, new ideas are shared among all the faculty members and students.

7.4 Contribution to environmental awareness / protection

Snapshot: Erode Sengunthar Engineering College

The college is located in a rural area, being a Green Campus with 7500 trees, enhances and ambient and environmental quality. The college has the special objective that every student should plant each sapling in the college campus at the time of their entry in the first year and at the time of leaving the college in the final year.

The campus is maintained as smoke free by parking car & two wheeler in separate parking area and plastic pollution free by continuous education to the students.

The college is implementing energy conservation activities by utilizing solar energy and minimum utilization of conventional energy resources.

The practice of rain water harvesting, check dams, food waste management techniques are being followed in the campus.

7.5. Whether environmental audit was conducted? Yes √ No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strength

- Visionary Management

- Dedicated & experienced faculty.

- Students Scholarship Scheme by Management.

- Development of Research culture by offering seed money for faculty & students' research.

- Technical training to industrial employees.

- Expanding infrastructure with modern facilities and learning resources.

- Eco-friendly initiatives.

Weakness

- Students of rural background with low income and first generation learners.

- R & D activities need to be further strengthened.

- Alumni interactions to be further strengthened.

Opportunities

- To offer inter disciplinary projects.

- To tap more funding projects.

- To establish foreign University tie-ups.

- To obtain the Autonomous status.

Challenges

- Meeting the fierce competition in Higher Educational field.

- Drastic rise in expenditures.

- Government regulations with respect to fee structure of students.

- Communication enhancement among the rural students.

8. Plans of institution for next year

- To obtain more university ranks.
- To strengthen the Research and Development activities.
- To get approved research centre status from Anna University, Chennai to CSE & ECE.
- To establish tie up with foreign universities with respect to engineering stream.
- To ensure the continuous improvement in pass percentage of the students in Anna University Examinations.
- To improve the admission rate and quality.
- To establish IoT Lab in the Computer Science and Engineering department.
- To establish the Power Systems Laboratory in Electrical and Electronics Engineering Department.
- To establish centre of excellence for Integrated Circuits Research in Electronics and Communication Engineering Department.
- To conduct International Conference at EEE, ECE & EIE departments.
- To ensure 100% placement and to enhance the level of placement in the reputed core industries.
- To increase the number of students to appear for GATE, GRE and TOEFL examinations.
- To file more number of intellectual property rights.
- To establish the new Memorandum of Understandings (MoUs) with reputed industries.
- To encourage more faculty members to pursue higher degree.
- To improve the number of publications in the peer reviewed international journals
- To fulfill the requirements of NBA, New Delhi and to attain five year accreditation status.

Name M.Shyamala gowri

Name Dr. L. BoopATHI

M. Sh... 29/9/16

29/9/16

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

PRINCIPAL,
Erode Sengunthar
Engineering College,
Thudupathi, Erode-638 057.

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Annexure I

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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Aacdemic Calendar 2015 – 16 Even Semesterr

ERODE SENGUNTHAR ENGINEERING COLLEGE

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

Accredited by NBA, New Delhi, Accredited by NAAC with highest 'A' Grade,

Accredited by IE (I), Bangalore & ISO 9001:2008 Certified Institution)

THUDUPATHI, PERUNDURAI, ERODE-638 057

Department of Electrical and Electronics Engineering

Academic Schedule for the Academic Year 2015-2016 (Even Semester)

Date	JANUARY	Date	MARCH	Date	APRIL	Date	MAY
27		1	Unit Test - II	4		8	
28	Reopening for VI Semester Dept. Staff Meeting	2		5		9	
29		3		6	Industrial Visit-IV EEE	10	
30 Sat	Reopening for IV & VIII Semester B.E./B.Tech.	4		7	Dept. Staff Meeting	11	
31 Sun	Holiday	5 Sat	Industrial Visit-III EEE	8	TELGU NEW YEAR Holiday	12	Dept. Staff Meeting
	FEBRUARY	6 Sun	Holiday	9 Sat	Holiday	13	
1	Reopening for II Semester B.E./B.Tech.	7		10 Sun	Holiday	14	
2		8		11		15	
3		9		12		16	
4		10	Dept. Staff Meeting	13		17	
5		11		14	TAMIL NEW YEAR Holiday	18	
6 Sat		12 Sat	Unit III to be completed One day Workshop	15		19	
7 Sun	Holiday	13 Sun	Holiday	16 Sat	Guest Lecture IV & Valedictory function	20	
8		14	Unit Test - III	17 Sun	Holiday	21	
9		15	Unit Test - III	18	All Five Units to be completed	22	
10	Unit 1 to be completed	16	Unit Test - III	19	Magaveer Jayanthi Holiday	23	
11	Unit Test - I Dept. Staff Meeting	17		20	Model Exam	24	
12	Unit Test - I	18	Industrial Visit-II EEE	21	Model Exam Dept. Staff Meeting	25	
13 Sat	Unit Test - I	19 Sat	Leader's Talk-V	22	Model Exam	26	Dept. Staff Meeting
14 Sun	Holiday	20 Sun	Holiday	23 Sat	Model Exam	27	
15	Guest Lecture - III & Thomas Alva Edison day celebration	21		24 Sun	Holiday	28	
16		22	National Level Conference	25	Model Exam	29	
17		23		26	Model Exam	30	
18		24	Dept. Staff Meeting	27		31	
19	Leader's Talk-IV	25	Good Friday Holiday	28			
20 Sat	Holiday	26 Sat	Holiday	29			
21 Sun	Holiday	27 Sun	Holiday	30 Sat	Last Working Day for VIII Semester		
22	ISO Audit	28			**MAY**		
23		29		1 Sun	Holiday		
24		30	Unit IV to be completed	2			
25	Dept. Staff Meeting	31	Unit Test - IV	3			
26	Unit II to be completed		**APRIL**	4			
27 Sat	Unit Test - II	1	Unit Test - IV	5			
28 Sun	Holiday	2 Sat	Unit Test - IV	6			
29	Unit Test - II	3 Sun	Holiday	7 Sat	Last Working Day for VI & IV Semester		

W.Days: Jan. & Feb.		W.Days: March		W.Days: April		W.Days: May	
II Sem	- 24	II Sem	- 25	II Sem	- 22	II Sem	- 6
IV Sem	-24	IV & VIII Sem	- 25	IV & VIII Sem	- 22	IV & VIII Sem	- 6
VIII Sem	- 25	VI Sem	-25	VI Sem	- 22	VI Sem	- 6
VI Sem	- 28						

Semester	Total Working Days	Test Days	Days for Teaching & Learning

ACADEMIC YEAR 2015-16 (ODD SEM)

PARENTS FEEDBACK

POINT ABOUT COLLEGE						
S.NO	1	2	3	4	5	6
II YEAR	3.9	4.2	3.7	3.9	3.8	3.7
III YEAR	3.2	4.0	2.7	3.9	3.6	3.3
IV YEAR	3.8	3.8	4.5	3.8	3.7	3.9
I YEAR-M.E	3.6	4.0	3.6	3.9	3.7	3.6
II YEAR -M.E	3.3	3.3	3.3	3.3	3.0	3.7

ACADEMIC YEAR 2015-16 (ODD SEM)

STUDENT FEEDBACK ABOUT COLLEGE AND DEPARTMENT

S.NO	POINTS									
	ABOUT THE COLLEGE							ABOUT THE DEPARTMENT		
	1	2	3					1	2	3
			a	b	C	d	e			
II YEAR	4.3	3.9	4.3	3.2	3.2	2.9	3.8	4.5	4.2	3.7
III YEAR	3.3	2.8	4.1	3.3	3.2	2.8	3.2	3.7	3.5	3.6
IV YEAR	3	3	3.5	3.6	3.3	3	3.0	3.3	3	3
I YEAR-M.E	3.6	1.4	4.0	3.4	3.3	2.8	3.3	3.8	3.6	1.5
II YEAR -M.E	3.7	5.0	4.7	4.3	4.3	4.3	4.3	3.7	3.3	4.0

ACADEMIC YEAR 2015-16 (EVEN SEM)

PARENTS FEEDBACK

POINT ABOUT COLLEGE						
S.NO	1	2	3	4	5	6
II YEAR	4.0	4.3	4.5	4.3	4.0	4.3
III YEAR	3.1	4.0	4.1	3.9	3.9	2.5
IV YEAR	3.5	3.9	4.8	3.8	3.8	3.7
I YEAR-M.E	3.5	4.1	4.5	4.0	3.9	3.5
II YEAR -M.E	3.7	4.0	3.3	3.3	3.3	3.7

ACADEMIC YEAR 2015-16 (EVEN SEM)

STUDENT FEEDBACK ABOUT COLLEGE AND DEPARTMENT

S.NO	POINTS									
	ABOUT THE COLLEGE							ABOUT THE DEPARTMENT		
	1	2	3					1	2	3
			a	b	c	d	e			
II YEAR	3.7	4.0	4.3	4.5	4.1	2.6	3.5	4.3	4.3	3.6
III YEAR	3.2	2.9	3.8	3.2	3.1	2.3	2.8	3.1	3.0	2.8
IV YEAR	3	3	3.7	3.8	3.8	3	3.2	3.7	4	3
I YEAR-M.E	3.7	5.0	3.3	3.7	3.7	4.0	4.0	3.7	4.0	4.0
II YEAR -M.E	3.0	4.0	4.0	4.0	3.7	3.3	3.0	3.3	3.3	5.0