Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**ERODE SENGUNTHAR ENGINEERING COLLEGE**
Name of the head of the Institution	**Dr. V. Venkatachalam**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**04294232701**
Mobile no.	**9442132706**
Registered Email	**esecprincipal@gmail.com**
Alternate Email	**contact@esec.ac.in**
Address	**Erode Sengunthar Engineering College, Thudupathi, Perundurai, Erode**
City/Town	**Erode**
State/UT	**Tamil Nadu**
Pincode	**638057**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr. M. Shyamalagowri**
Phone no/Alternate Phone no.	**04294232701**
Mobile no.	**9842660908**
Registered Email	**iqac@esec.ac.in**
Alternate Email	**contact@esec.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.erode-sengunthar.ac.in/wp-content/uploads/2019/04/AQAR2017-2018.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.erode-sengunthar.ac.in/academic/academic-schedule/

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.01**	**2015**	**15-May-2015**	**15-May-2020**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**17-Jun-2015**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

Outcome based Education	02-Jul-2018 180	2398
Academic Audit	01-Feb-2019 24	2398
NBA	03-May-2019 60	2398
Autonomous status applied/ UGC Visit	04-Jun-2019 60	2398
Participation in NIRF Ranking	06-Dec-2018 60	2398
Participation in Atal Ranking of Institution Innovation Achievements- ARIIA	12-Jan-2019 60	2398
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Erode Sengunthar Engineering College /CSE Dr .V.Venkatachalam, Principal	SPDP	AICTE	2019 1096	358000
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**4**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**Yes**
If yes, mention the amount	**479000**

Year	2018

12. Significant contributions made by IQAC during the current year(maximum five bullets)

- The college is issued 12 B status by University Grants Commission, New Delhi in March 2019

- The NBA accreditation process was successfully completed for the three Departments-ECE, EEE & CSE

- The Institution's Innovation Council (IIC) was established to foster the culture of innovation among faculty and students

- DST Sponsored "Centre for NanoTechnology' was established in the campus for improving the research activities of both students and faculty.

- Renowned Companies have issued 564 placement offers to the students

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Apply for College-Autonomous Status	UGC has conferred the Autonomous status to the Institution for 10 years from 2019 to 2029 based on the successful and effective functioning.
Introduce new UG/PG program for the year 2018-2019	New UG programme - Biomedical Engineering, PG Programme- M.E.-Industrial Safety and M.Tech- Chemical Engineering were introduced during the year 2018 -2019
Effective implementation of NBA reaccreditation to qualifying UG programs	Computer Science and Engineering, Electrical & Electronics Engineering and Electronics & Communication Engineering are reaccredited. By National Board of Accreditation, New Delhi
Motivate faculty & students to acquire NPTEL certification	70 faculty and 28 students have successfully completed the NPTEL Course and received Certification.
Enhance the Research / Consultancy activities	DST sponsored "Centre for NanoTechnology' was established. Research and Development Cell has motivated the faculty and students to obtain a fund of Rs.51,68,124/-& Rs..37,500/- respectively .from various funding agencies in the academic year

	2018-2019.
IQAC Academic Review	Monthly/Quarterly academic review conducted for all the Departments
IQAC Internal Academic Audit	IQAC conducted the academic audit in all the Departments
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Governing Council Meeting	23-Apr-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

03-May-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

06-Feb-2019

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)

Erode Sengunthar Engineering College maintains Information Management System to run both academic and administrative processes. Individual computers with intranet and internet connections are provided to all the faculty members to access the required academic details. Availability and use of various teaching tools, such as software and apps, help both the teacher and the students to engage productively with the subject content.. The attendance entry using the bio metric system has been successfully implemented for both faculty and staff members. Educational ERP software, Insproplus developed by Palpap Ichinichi Software International Ltd. is used to support academic / adminitquative processes. Educational ERP software named Insproplus developed by Palpap Ichinichi Software International Ltd., consists of the

following modules: Master Wizard, Security, Academic, Track Master, Performance Report, Finance, Human Resource Management, Library, Hostel Inventory Data Upload, SMS Dynamic Reports and Access Reports. Master Wizard: In this module, information about the college, programme and academic details are available. Security: The user ID is created for each faculty members to enter and maintain an online record of attendance and marks. It is maintained by the administrator to protect the confidentiality of the information by providing access to the registered and authorized users. Academic: In this module, academic related details like yearwise class lists, student's profile, lesson planner, attendance CAM entry and marks are maintained. The subject handling faculty members can enter the attendance and marks obtained by the students to maintain online record. Performance Reports: This module is used to generate the students' reports related to attendance and internal examination results. The class teacher can take a monthly attendance report and send SMS to parents who have less attendance for that particular month. Also, the examination results are sent through SMS to the parents. In addition, Placement cell reports, general reports, ISO reports and admission status reports can also be generated. Finance: This module maintains the fee payment details of the students. The students can pay fees online through their personal logins and receipt is generated. It also maintains salary vouchers and salary slips for the faculty members and staffs.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The institution is affiliated to Anna University, Chennai. Institution follows the curriculum given by the University. Based on the academic advisory council recommendations, value added courses and content beyond syllabus are framed according to Industrial needs.. In order to have effective teaching, learning and evaluation process, college follows a systematic approach. The Academic

Calendar is prepared at the commencement of the semester and becomes the guiding document for scheduling teaching, learning and evaluation activities. It is being prepared by every department for every programme before the semester starts. It consists of all the events conducted by that department for a semester and also includes the common events conducted by the institute. The calendar is circulated and uploaded in Google Classroom for easy access to students and members of faculty. The Academic Schedule provided by the Anna University is taken into consideration while preparing the Academic Calendar. The Anna University Academic Schedule comprises of Schedule for commencement of classes, internal tests, last instructional day, university theory, Academic audit and practical examination schedules. At the Next Level, the Course Plan is a vital document that the activities to be carried out with regard to the teaching-learning process. Course file is prepared by concerned faculty members for all the courses before the start of the semester and it is approved by the HOD. The Course File contains Course Planning and Delivery aspects as mentioned below. 1.Department Vision, Mission 2. Programme Outcomes (PO) 3. Programme Objectives 4. Course Syllabus 5. Course Objectives 6. Course Outcomes (CO) 7. Mapping of COs and POs 8. Lesson plan 9. Details of Content beyond syllabus 10. Previous University Question Papers 11.Interview Questions 12.Assesment test Question Papers 13.Sample Answer Sheets 14.Delivery methods / models planned 15. Assignment 16.Log Book Course delivery covers the following : 1.Course Material 2. List of textbooks, reference books, journals and websites 3. EBooks, E-Materials, video 4. Scope for self-learning 5. Old university question papers 6. Two mark question and answers (Unit I to V) 7.Slow learner coaching record Evaluation : Considering the various aspects including semester category (odd or even semester), public holidays, course plan, etc. the examination cell of the institution prepares the schedule for weekly tests, internal Tests and model examination schedule. These schedules are integrated into the Academic Calendar for holistic reference and execution. The evaluation is done as per the curriculum design. The evaluation pattern consists of continuous internal assessment and university examination with 20% and 80 % weightage respectively. The internal assessment comprises of 20 marks which is best of three internal tests. Two sets of internal test questions are prepared by the concerned faculty member and reviewed by the scrutinizing committee before sending it to the Examination Cell. Exam cell chooses one set of question paper.. The end semester examinations are conducted by the Anna University

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Mobile Phone Hardware Repair Technician	Nil	08/03/2019	15	Entrepreneurship	Mobile Phone Hardware Repair
CCTV Installation Technician	Nil	08/03/2019	15	Entrepreneurship	CCTV Installation
Field Technician-AC Mechanic	Nil	08/03/2019	15	Employability	AC Working
Construction Mason	Nil	08/03/2019	17	Entrepreneurship	Construction of buildings

Concrete					
Mining Assistant Mine Surveyor Draughtsman	Nil	08/03/2019	9	Entrepreneurship	Mine Survey
Iron and Steel Iron And Steel – Utility Hand Plant Operations	Nil	08/03/2019	10	Employability	Iron and Steel Plant Operations
Textile Dyestuff Chemical Preparation Operator	Nil	08/03/2019	13	Employability	Textile Dyestuff Chemical Preparation
Plumbing Plumber Pipeline	Nil	08/03/2019	15	Employability	Plumbing Pipeline plan
Solar panel Installation Technician	Nil	08/03/2019	17	Employability	Solar panel Installation
Electronics Field Technician - Water Purifier Other Home Appliance	Nil	08/03/2019	15	Employability	Home Appliance
IT/ITeS Domestic Data entry Operator	Nil	08/03/2019	17	Employability	IT/ITeS Domestic Data entry
IT/ITeS Junior Software Developer	Nil	08/03/2019	17	Employability	Data entry
Apparel Sewing Machine Operator	Nil	08/03/2019	14	Entrepreneurship	Apparel Sewing Machine
Healthcare Emergency Medical Technician-Basic	Nil	08/03/2019	17	Employability	Healthcare Emergency
IT/ITeS Domestic IT Helpdesk Attendant	Nil	08/03/2019	17	Employability	IT/ITeS Domestic IT Helpdesk
PHP My SQL	Nil	07/07/2018	5	Employability	IT Skills

					ity
Python	Nil	07/07/2018	5	Employabil ity	IT Skills
Word Press	Nil	07/07/2018	5	Employabil ity	IT Skills
CISCO Certified Network Admi nistrator	Nil	20/07/2018	5	Employabil ity	Networking skills
e - yantra Robotics	Nil	03/08/2018	5	Employabil ity	C Micropro cessor Programming
E- CAD	Nil	23/08/2018	5	Employabil ity	Computer aided Design
STAAD Pro v8i	Nil	13/08/2018	5	Employabil ity	Structural Design and Analysis
Primavera p6	Nil	07/01/2019	5	Employabil ity	Construction Project Management Software
CATIA	Nil	01/02/2019	5	Employabil ity	Product Design
Auto-CAD	Nil	24/08/2018	5	Employabil ity	CAD
Aspen HYSYS	Nil	27/08/2018	5	Employabil ity	Process Simulation
Waste Water Treatment	Nil	13/12/2018	5	Employabil ity	Treatment Technology

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	CHEMICAL ENGINEERING	10/04/2018
ME	INDUSTRIAL SAFETY AND ENGINEERING	10/04/2018
BE	BIOMEDICAL ENGINEERING	10/04/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Biomedical Engineering	01/08/2018
BTech	Chemical Engineering	01/08/2018
BE	Mechanical Engineering	01/08/2018

BE	Electrical and Electronics Engineering	01/08/2018
BE	Electronics and Communication Engineering	01/08/2018
BE	Electronics and Instrumentation Engineering	01/08/2018
BE	Computer Science and Engineering	01/08/2018
BE	Civil Engineering	01/08/2018
ME	Manufacturing Engineering	03/09/2018
ME	Applied Electronics	03/09/2018
ME	Computer Science and Engineering	03/09/2018
ME	Environmental Engineering	03/09/2018
ME	Industrial Safety Engineering	03/09/2018
ME	Power Electronics and Drives	03/09/2018
Mtech	Chemical Engineering	03/09/2018
MBA	Master of Business Administration	03/09/2018
MCA	Master of Computer Applications	03/09/2018

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	937	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
PHP My SQL	07/07/2018	101
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Chemical Engineering	71
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes

Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

Erode Sengunthar Engineering College considers the Feedback of the stakeholders as the driving force for the overall effective implementation of the academic and administrative process. Students are invited, to complete a brief online feedback form, on an anonymous basis, towards the end of selected study-units. This process occurs during the odd semester and even Semester. The feedback obtained was analyzed for both the academic performance and the inter-personal relationship criterion of the faculty competence as visualized by the student perception. Feed backs are reviewed by the HoD and constructive measures are taken to improve the quality of teaching and the teaching - learning process. The feedback is also used for calculating the achievement of course outcomes from the student point of view. A course end feedback is also obtained from the students by the individual faculty member at the end of the course which will be helpful for the faculty to make improvements in administering the course for the subsequent batches of students. Overall feedback about the program is obtained at the end of the program every year from the outgoing final year students , to evaluate the facilities provided by the institution and the ambience provided for student centric learning. The feedback results are analyzed, corrective and preventive actions are initiated to overcome any deficiencies indicated in the feedback. Also, feedbacks are obtained from alumni towards their possible contribution to curriculum development/curriculum enrichment, to support our students in employment and creating an awareness about the expectations of the industry in fresh graduates. Employer feedback is collected to train the students to meet the Industry needs. Parent feedback is collected and analyzed to improve the overall process. Tutor ward meetings and class committee meetings are regularly conducted and any grievances in the Teaching Learning Process are sorted out with the proactive participation of students and faculty. . Feedback obtained from various stakeholders is analyzed in the Program Assessment Cell. The views of stakeholders in implanting outcome-based education is taken into account under the indirect method of assessing the attainment of POs / PSOs. Feedback recorded after the internships and industrial training and other feedback discussed in the program assessment committee are summarized and analyzed in the Department Academic Assessment Committee (DAAC). Based on the feedback, new strategies are planned to overcome the barriers of learning. The gap between industry requirements and curriculum are identified and appropriate measures are taken to meet the expectations of the Industries, Parents and Students.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Biomedical Engineering	60	45	24
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1947	246	167	38	205

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
205	205	14	69	12	12
[View File of ICT Tools and resources](#)					
[View File of E-resources and techniques used](#)					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The students mentoring system is available in the institution. • Each faculty will be a mentor of 10 to 15 students. Mentoring ratio is 1:15 • First year students will have mentors from the Department of Basic Engineering, Science, Humanities and second, third, fourth year students will have mentors from the parent department. A report card is maintained for each student. For slow learners additional teaching sessions and support are provided. • The mentor helps student to succeed in academics/Career. Each Mentor performs the following activities-. 1. Meet the group of students once in a week/as per timetable. 2. Continuously monitor, counsel, guide and motivate the students in all academic matters. 3. Advise students regarding choice of electives, project, summer training, etc. 4. Contact parents for both academic irregularities and detrimental activities 5. Advise students related to career development and interpersonal skills. • The mentoring process is reviewed by the respective Department heads and Principal at regular intervals. This mentoring is for the overall development of the student. Faculty advisor also meets the students frequently and discusses various issues including classroom lectures, laboratory performances, participation of seminar / conferences and technical event, any academic difficulty faced and career development. Faculty advisor - Monitor the student's regularity, discipline, Enable the parents to know about the performance regularity of their wards., Improve teacher-student relationship and Counsel students to provide confidence to improve their quality of life. The faculty advisor will be in contact with the student even after his course completion

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2193	205	1:11

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
205	171	34	34	48

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies

| 2018 | Dr.K.M.Gopalakrishnan | Associate Professor | ISTE Periyar Award for the BestEngineering College Faculty |
| 2018 | Dr.S.Navaneethakrishnan | Assistant Professor | NPTEL Active Spoc Achievement Award |

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	103	I/I	11/01/2019	13/02/2019

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Continuous Internal assessments are planned as per the academic calendar. • Three internal assessment test and a model examination IS CONDUCTED • The questions for internal assessment tests are prepared to access the students lower and higher order level of thinking • Faculty members are instructed to prepare the questions by keeping the Course Outcomes in their mind and the proportion of knowledge levels. • The Question paper setters are given guidelines to maintain the authenticity to match the style and approach of question setting to the reality of practice to attain COs and POs. • Framed question papers are verified with quality checks towards Course Outcomes and knowledge levels. • The quality of the question papers is scrutinized with respect to pattern, outcomes and knowledge levels.. Information on the conduction and evaluation of internal tests Students are informed about the internal test dates through academic calendar and circular. The evaluation process is explained to them by the respective subject handling faculty members. Centralized Evaluation for Continuous Internal Tests Student's performances in internal tests are evaluated in centralized manner as arranged by the college exam cell. Answer booklets are evaluated with the scheme of evaluation prepared by respective faculty members within the duration of two days after the commencement of the particular examination The evaluation is completed in a span of two days for each subject. After paper evaluation, the answer scripts are distributed to students and answers are discussed in the classroom. Final mark will be uploaded after student authorized his/her mark in the answer script. Intimation to parents about the internal test performance Result analysis is analyzed in Department meeting and Class Committee meeting. All the parents are informed about their ward's performance in each internal test through SMS. Head of the department conducts result analysis meeting after the end of each internal test. Remedial Classes The students are counseled by their faculty mentor on the level of the performance and constructive measures are carried out as per the categories of bright, medium and slow learners. Based on the result analysis meeting discussion, the remedial classes are planned and conducted in the subjects in which the pass percentage is found to be less.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The academic calendar is prepared in adherence to Anna University academic

schedule. Calendar is formulated with the consideration of working days from reopening date to the last working date. With the total number of working days, three continuous internal assessments are planned. Academic calendar also includes the activates like student feedback, Mini project presentation, HoD meeting, Commencement of end semester examination and Class Committee meeting. In the formation of academic calendar four IQAC audits are planned to monitor the periodic academic performance. Based on this college academic calendar, Department academic calendar is prepared for every semester. It narrates the action plan of the department. It includes the schedule of Course Committee Meeting, guest lecture, leader's talk, workshop, seminars, and symposium, The academic calendar is disseminated to the students through Notice board.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://www.erode-sengunthar.ac.in/department/civil-engineering/ce-popso/

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
203	BTech	Chemical Engineering	113	91	81
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://www.erode-sengunthar.ac.in/iqac/sss/

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	730	DST-NRDMS	9.17	2
Major Projects	1095	DST	24.42	5
Students Research Projects (Other than compulsory by the University)	90	TNSCST	0.32	0.32
Interdisciplinary Projects	90	TNSCST	0.15	0.15
Industry sponsored Projects	90	FAER-Mcafee Scholar Program	0.1	0.1

Any Other (Specify)	90	Erode Sengunthar Engineering College	0.7	0.7
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Hack the Box	Computer Science and Engineering	28/09/2018
Technical Symposium	Computer Science and Engineering	30/08/2018
Big Data Analytics	Computer Science and Engineering	21/07/2018
Block chain	Computer Science and Engineering	24/12/2018
C# and .Net Programming	Computer Science and Engineering	23/02/2019
React JS web development	Computer Science and Engineering	02/03/2019
The Industry 4.0: Revolution in Industrial Instrumentation Control	Electronics and Instrumentation Engineering	06/07/2018
Recent Trends in Industrial Automation	Electronics and Instrumentation Engineering	11/01/2019
Latest Innovation technique for land surveying	Civil Engineering	27/07/2018
National level students symposium	Civil Engineering	30/08/2018
Training on Total Station	Civil Engineering	01/09/2018
Role of Vasthu in planning and construction	Civil Engineering	17/10/2018
Estimation and quantity surveying	Civil Engineering	17/10/2018
Leather processing waste water treatment	Civil Engineering	07/02/2019
Mix design and special concrete	Civil Engineering	22/02/2019
Special lecture - Artificial Intelligence	Electronics and Communication Engineering	01/02/2019
Special lecture - System Engineering Solutions	Electronics and Communication Engineering	02/02/2019
Special lecture - Adaptive Cruise Control System	Electronics and Communication Engineering	02/02/2019

Guest lecture on "Impact of Variable frequency Drives"	Electrical Electronics Engineering	13/07/2018
Workshop on on Casting and Forging Techniques	Mechanical Engineering	06/08/2018
National level DOE(Design of Experiments) workshop	Mechanical Engineering	05/02/2019
seminar on Application of CFD in Mechanical Engineering	Mechanical Engineering	16/02/2019
Expert lecture - Finite Element Analysis	Mechanical Engineering	28/02/2019
Special lecture on Derivative Markets	Master of Business Administration	16/11/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Smart City Hackathon	B.Karthikeyan, R.F.Akhil Robin and A.George Thomas	IIIT, Hyderabad	27/10/2018	National - I PLACE
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
ESEC-TBI	Training on Making Low cost Sanitary Napkin and Marketing	DST-NRDMS, New Delhi	Soft Nature	Low cost Sanitary Napkin Manufacturing Unit	08/03/2018
ESEC-TBI	Crystals for fertilizer applications	DST New Delhi	ESEC Home care Products	Preparation of soaps,Phenyl	14/09/2018
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
11	33	48

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Physics	2
Computer Science and Engineering	3
Civil Engineering	1

Electrical and Electronics Engineering	2
Mechanical Engineering	1
Chemical Engineering	1

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Civil Engineering	6	4.3

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Electrical and Electronics Engineering	1

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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Theoretical (DFT) and experimental studies on multiple hydrogen bonded liquid crystals comprising between aliphatic and aromatic acids	TS Senthil	Journal of Molecular Liquids	2018	8.4	Erode Sengunthar Engineering College	4

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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Hydro geo-chemical characteristics of G roundwater : a case	Mr. N.Sekaran	Indian journal of Geo marine sciences	2018	36	Nill	Erode Sengunthar Engineering College

study from kadavanar Watershed, Amaravathi sub-basin, Cauvery River, south india					
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	12	109	9	9
Presented papers	43	67	3	2
Resource persons	5	14	2	2
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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Awareness About Election And Voting	NSS	14	100
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Swatch Bharath	Recognized by awarding Certificates	Ministry of Human Resource Development,India	30
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swatch Bharath Scheme	DRDA-District Rural Development Agency	Clean India	3	30
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Industrial Training - JSW Energy Centre of Excellence, Karnataka	4	Erode Sengunthar Engineering College	4

View File

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industry Institute Partnership	Internship	TECPRO Energy Systems Chennai	14/02/2019	15/02/2019	2

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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
National Skill Training Institute Campus – 1, Bengaluru	25/10/2018	Industrial Training Skill development	129

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
180	146.84

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing

Classrooms with Wi-Fi OR LAN	Newly Added
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Newly Added
Class rooms	Newly Added
Campus Area	Existing
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
PALPAP InsPro plus	Fully	6.2	2013

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	44232	13544848	1701	577904	45933	14122752
Reference Books	9391	4076987	480	108802	9871	4185789
Journals	254	338736	254	338736	508	677472
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 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.S.Christian Johnson	Diversion and Impounding Structure	YouTube	01/05/2019
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	731	519	664	28	76	20	88	100	0
Added	101	81	36	0	10	0	10	0	0
Total	832	600	700	28	86	20	98	100	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NPTEL Center	http://www.nptel.ac.in/
IIT Bombay Remote Center (Intranet Based)	http://172.16.0.4/videos
Intranet Based LMS(Moodle based)	http://172.16.10.4/eseclms/

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
122.41	72.39	68.18	64.17

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The college has a well-established system for ensuring optimal allocation and utilization of the available financial resources in every academic/financial year for maintenance and upkeep of physical, academic and support facilities. This process is monitored by different committees constituted for this purpose as per the requirements in the interest of students/staff/faculty members welfare. Physical Infrastructure facilities: The Erode Sengunthar Engineering College campus is spread over 55.54 acres acres of land, utilized for the college, hostels, staff quarters, play fields and gardens. A team comprising of campus Director, Estate manager, civil supervisors, faculty and staff members monitors all maintenance activities for management, maintenance and repair of physical infrastructures in the campus. A separate power house facility operates in the campus to take care of all the electrical related facilities and supplies in the campus. Two generators of capacity -180KVA and 125 KVA are available in the campus to aid electrical facilities. Roof top solar panels for generating 20KW have been installed in the open terrace of main building. UPS (290KVA), air conditioning units, generators, pumps, water purifiers and landline phones .are maintained by in-house maintenance personnel and authorized service personnel through AMC. Campus wide fire extinguishers and fire hoses are strategically installed for handling emergency firefighting situations. The entire campus is under CCTV surveillance. A security wing operates round the clock in the campus to safe guard the campus premises. Sewage Treatment Plant (STP) with a capacity of 1500L/day is available and the same is used for gardening through STP sprinkler system. 17 numbers bore-wells made at valley points inside the campus provide adequate water supply inside the campus. Laboratory: State of the art laboratory facilities are provided for all the programmes offered by the College. The laboratories are equipped with adequate man power and other facilities for provision of hands on sessions for the students pertaining to their area of study. Library: . The entire library is automated using PALPAP Insproplus. Presently, 45934 books, 254 journals are possessed by the library with an access to DELNET membership Journals online electronic journals. A separate Digital Library having 25 computers functions in the library premises. Internet facility is provided in the library. Sports Complex: The Department of Physical Education covers an area of five acres located near the hostel premises. The department has an infrastructure for all the indoor and outdoor games. State of the art gym facility is available in the campus. The activities are held throughout the year, every day, from 6.30 am to

https://www.erode-sengunthar.ac.in

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit and Special Scholarship	561	7566000
Financial Support from Other Sources			
a) National	NIL	Nill	Nill
b)International	NIL	Nill	Nill
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft skill development- I Year Students – All Departments	03/10/2018	390	Training Placement Cell, ESEC
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	ESEC IAS Academy	135	32	Nill	42
2019	AICTE- PRERANA Scheme for SC/ST students	245	212	98	212
2018	Placement Training	Nill	560	Nill	524
2018	Higher Studies in	Nill	72	Nill	Nill

	India and Abroad				
	View File				

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
160	160	5

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Vernalis	77	2	Hiferk Technologies	33	4
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	Electronics Communication Engineering	Electronics Communication Engineering	Kongu Engineering College	M.E. Communication Systems
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
Any Other	97
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Annual Sports Day	College Level	2500
SDAT Erode District Hockey Tournaments	District Level	180
BNI (Business Network International) Cricket Tournament	District Level	250
Padma Viyuga- Chess Tournament	School Level	200
Polytechnic Inter	College Level	300

Collegiate Hockey Tournament		
Anna University, Chennai Zone-12 Hand Ball Men Tournament	College Level	500
Anna University, Chennai Zone-12 Foot Ball Men Tournament	College Level	800
Perundurai Erode District Perundurai Zone School Level Zone Meet (Sports And Games)	School Level	1500
IRT-PMC Trophy 2018(IRT Perundurai Medical College, Perundurai)	College Level2	200
SDAT Erode District Hockey Tournaments	School, College Open Clubs	180
[View File](#)		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Gold Medal	National	34	3	ES15CH41	J.S.Kalai
[View File](#)						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

College creates a platform for the active participation of the students in the various academic and administrative bodies including other activities. This empowers the students in gaining leadership qualities, rules, regulations and execution skills Class Committee: A Class Committee is formed for every class in which teachers of the concerned class, student representatives and a chairperson will be the members. The student members bring forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class. The composition of student members is of one topper, one average and one slow learner (the one who has more integrity with other students) of each section are nominated as class representatives, for all the sections from I Year to Final Year. Students Association: Every department has an active student association consisting of student members. The student members of the association are elected through election in which student cast their vote to candidates of their choice. The constitution of the student association comprises president, Secretary, Treasurer, Joint Treasure and student executive members. The association is monitored by senior faculty members who are responsible for the smooth conduct of the association meetings and events. Extra-curricular activities are organized by these associations which in no doubt a great forum for students to develop their personality traits. Seminars, workshops, interactions with expertise are also organized by clubs. Apart from Association and Clubs, NSS and Physical Education play vital role in enhancing the personality traits of our students. Every class has two representatives – girl representative and boy

representative. There is also a placement representative in each class. When the departments organize events, students with the guidance of the faculty serve as volunteers under different committee. There are also student representatives in the following committees: Students welfare and Counseling committee, Anti ragging committee and Hostel Council.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

TThe Alumni Association of Erode Sengunthar Engineering College has been functioning vibrantly from the year 2000 onwards. The main aim of the association is to establish a link between College and Alumni which will help us to share ideas of mutual growth, achievements and advancements in various fields. The Alumni Association of Erode Sengunthar Engineering College organized the following events in association with various Departments in the college: • Grand Alumni Meet at College premises. • Guest Lectures in the respective Departments with the expertise of alumni. • Leader's Talk by successful alumni to motivate the current students to excel in their lives. A separate web portal is available for the alumni with facilities for registering and updating their details. The URL of Alumni Portal is: http://www.erode-sengunthar.ac.in/alumni/ ESEC Alumni Trust was formed with Reg. No.: 50/BK4/2017 dt. 14.12.2017. Alumni had contributed over Rs. 5,00,000/- towards ESEC Alumni Trust for the noble cause helping poor students of the college.

5.4.2 – No. of enrolled Alumni:

8914

5.4.3 – Alumni contribution during the year (in Rupees) :

500000

5.4.4 – Meetings/activities organized by Alumni Association :

'Grand Alumni Meet – 2019' titled 'Ruminate – 2019' was conducted on January, 26, 2019, in the college premises at 10.00 a.m. Around 450 alumni have participated in the meet and interacted positively by offering suggestions for the betterment of the college. They assured to support for placement and related training to the current students.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization : The college delegates authority and provides operational autonomy to the department / units of the institution. Thus the works are governed through decentralized systemic way. The principal is responsible for the institutional-based academic and nonacademic activities. He coordinates with Heads of various Departments, I Year Coordinator, Training and Placement Officer, Coordinators of University Examination Cell, Coordinators of Admission Cell, Coordinators of various Clubs, Manager of College Office, Transport Supervisor and Officers of Campus. The HoD is responsible for sanctioning leave to department staff and students. He deputes the coordinators for taking care of Internal Assessment Examinations, Department Association, Placement, Research and Development, In-charge for Department Library, Coordinator for Enterprise Resource Planning, In-charges for Laboratories, Advisors for all Classes, Chair Persons for Class-Committee Meeting and Coordinator for Admission. The Coordinators of Internal Assessment Tests conduct the tests

periodically for all students of the department. The Association Coordinator is deputed for organizing the programmes such as Guest Lectures, Leader of the Month, Seminars and Workshops related to recent trends and advancements of the concerned specialization of the course for satisfying students? expectation in technical and non-technical levels. The Department Placement Coordinator concerts in identifying the placement oriented training programmes to be provided to the students in year wise and arranging placement-interviews for pre-final and final year students. The Laboratory In-charges take care of the Equipment of the corresponding Laboratory, Budget Allotment for procuring Hardware Equipment, purchase of Software and other console devices according to the revised syllabus of university to conduct all the experiments by using them properly. Class Advisors take care of class students and monitor the class activities such as Students? attendance, Discipline Maintenance, Internal Assessment Tests, Class Committee Meeting and redressing the grievances and providing facilities according the needs and requirements submitted by the students. Participative Management The Governing Council has been functioning with various inter and intra college level academic, industry and university level members in the College. Principal, who is the head of institution manages all the institutional processes. The heads of various department monitor the Departmental activities. Two senior level professors take part in the GC meet and represent the faculty to convey their views and suggestions mooted out in the Governing Council for all aspects of academic and non-academic activities for the welfare of both staff and student community. The faculty members are deputed as members of various councils and committee such as Governing Council, Accreditation Committee, Academic Committee, Research and Development Cell, Programme Assessment Cell, Quality Improvement Cell, Universal Examination Cell, Internal Examination Cell, Disciplinary Committee, Grievance Committee, Social and Non-social clubs, etc. They are permitted to organize any various academic, nonacademic and societal-based activities with the permission of top management purely for the institutional growth. The management provides various infrastructures for organizing the programming even with the sponsorship if it is required by the organizers. They are encouraged to initiate new activities and to continue the periodical mandatory activities conducted for the benefits of stakeholders of the institution.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	• The college is affiliated to the Anna University, Chennai and follows the curriculum and syllabi prescribed by it. However, the college organizes guest lectures, seminars, industrial visits and various training programmes to supplement the curricular gaps. • Affiliating University play a major role in the Curriculum Design, Planning and Development . It is a process of developing appropriate need-based curricula in consultation with expert groups and based on the feedback from stakeholders.. The process involves orientation of the teachers who would handle the curriculum and proper

		planning of the transaction
Teaching and Learning		• The institution develops and implements its extensive action plan for effective delivery of the curriculum. To improve the quality of Teaching Learning through the following measures • The college is having academic Calendar in adherence to Anna University academic schedule. Based on this college academic Calendar, department level schedule is being prepared for every semester. • With a view to deliver the respective subjects to the students, lesson plans are prepared well in advance to complete the syllabus within the period prescribed by the University. • 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. • Faculty plans laboratory classes with specific learning objectives. Pedagogical approaches during the laboratory classes facilitate the students to attain different learning outcomes. • Tutorial classes are conducted intensively for analytical courses with four credits • Innovative projects lead the students for lively learning experience. • ICT Tools and PowerPoint presentations are used for better learning are usually employed in classrooms and other student learning environments
Examination and Evaluation		• Being an affiliated college, question papers are coined as per the affiliated University format in which the guidelines of the bloom's taxonomy are also incorporated. • The department conducts three internal assessment test and a model examinations • The questions for Internal Assessment Tests are prepared to access the students lower and higher order level of thinking. • The quality of the question papers are scrutinized with respect to pattern, outcomes and knowledge levels by Head of the Department • It is also used for assessing the course outcomes and also assesses the attainment of the POs and PSOs • Department meeting and class committee is conducted on the result analysis and communication to the parent is enabled by the respective class advisors

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. RD 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 inhouse 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, 288 funding proposals were submitted to various funding agencies like DST, AICTE, DRDO, etc.
Library, ICT and Physical Infrastructure / Instrumentation	Library: Library has 47,900 text books, 9781 reference books, more than 1000 e-journals which include Science direct and DELNET, etc. and more than 6032 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 PALPAP 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 software like SciLab, Python, etc. are organized with the support of Anna University, Chennai and IIT, Bombay. An e-materials and videos are 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 Director 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. • Civil supervisors are employed under the supervisor of campus Director 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.
Human Resource Management	• The institution has a mechanism of notification of regular posts and conduct of interviews. The College 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 provides 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.
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.
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 eligibility norms 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 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. 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, 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 : As per Government of TamilNadu norms.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Administration	The college has Biometric attendance for teaching and non-teaching staff. All the faculty and non-teaching details are maintained in the HR Module of Insproplus Software - An ERP developed by Palpap, Chennai
Finance and Accounts	Erode Sengunthar Engineering College uses Educational ERP software called Insproplus developed by Palpap Ichinichi Software International Ltd. for Finance and Account. All the financial related activities like

	students tuition fee, hostel fee, mess fee collection are carried out using this module.
Student Admission and Support	Online Admission Application is available in our College website for new Admissions(Management Quota. The details of students admitted through TamilNadu Engineering Admission is entered in the software Insproplus - ERP from Palpap Ichinichi Software Ltd., Chennai. Newly admitted and Other students details are maintained in the Academic Module of Insproplus.
Examination	The College is affiliated to Anna University, Chennai during 2017-2018. Affiliated Colleges are provided with Online Portal by Anna University for Student Attendance, Internal Mark Entry, End Semester Practical Examination Mark Entry, Results publication. An intranet based online examination system is also available in the College for MCQ type based Examination.
Planning and Development	Erode Sengunthar Engineering College uses Educational ERP software called Insproplus developed by Palpap Ichinichi Software International Ltd. for Planning and Development

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Dr.T.S.Senthil	The 7th Global Conference on Materials science and Engineering (CMSE 2018)	Xian Technological University,	22000
[View File](#)				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)

2018	Latest Innovation technique for land surveying	Latest Innovation technique for land surveying	27/07/2018	27/07/2018		10	4

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Practical Training on Geosynthesis and Building Materials	4	13/09/2018	18/09/2018	6

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
205	205	87	87

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• 5 days Medical Leave, 12 days Casual Leave 30 days' Vacation • 90 days Maternity leave with half salary for Lady Faculty members • Sponsorship to pursue Higher Studies •40 share to faculty members for their consultancy work • Seed money for RD activities • Sponsorship for National and International publications in Conferences and Journals • Awards Certificates for Meritorious and Continuous service • Giving concession in workload allotment for the faculty who involve in the research and funding projects works • Free Hostel accommodation and food for wardens • Concession to avail College bus service	• 5 days Medical Leave, 12 days Casual Leave 30 days' Vacation • 90 days Maternity leave with half salary for Lady nonteaching Faculty members • Sponsorship to pursue Higher Studies • 40 share to non-teaching faculty members for their consultancy work • Free Hostel accommodation and food for wardens • Concession to avail College bus service	• Full Tuition Fee exemptions for Meritorious Students • Fee exemptions for Students excelling in Sports and Games • Fee exemptions for Physically challenged and economically weaker sections • Endowments created by Trust members, Staff, Parents and Well wishers • Gold medal for University Rank Holders • Cash award and Certificates for Academic toppers 100 attendance holder in the class

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The institute has an internal auditor who audits all the accounts yearly. The institute has mechanisms for internal and external audit. Internal audit is carried out periodically. External audit is carried out once in a year. External Auditor verifies all receipts expenses bills, payments of the Financial Year.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Members of Erode Sengunthar Educational Trust (view attachment for more)	455000	Cash award to student and Merit scholarship
View File		

6.4.3 – Total corpus fund generated

15075000

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Dr. Alagumoorthi, Professor, Pondicherry Engineering College	Yes	IQAC
Administrative	Yes	Dr.S.V. Samba sivam,Former Principal, Govt. College of Technology, Coimbatore	Yes	IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Parents – Teacher's 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 suggestions for their wards better performance in curricular, co-curricular, extracurricular activities and to discuss about students discipline and academic performances • Parents and teachers have been involved various student's welfare activities and skill development programmes. • The academic progress of every student is informed in the mode of letter and phone call. Whenever necessary parents are called and discussed about their wards. Parents can call class advisor and head of the department /at any time through phone.

6.5.3 – Development programmes for support staff (at least three)

• Training for handling the advanced instruments • Training on MS office •

Training on LCD Maintenance • Training program on "Calibration of Electrical Instruments" • Workshop on MATLAB

6.5.4 – Post Accreditation initiative(s) (mention at least three)

UGC has conferred the Autonomous status to the Institution for 10 years from 2019 to 2029 Computer Science and Engineering, Electrical Electronics Engineering and Electronics Communication Engineering are reaccredited. By National Board of Accreditation, New Delhi.•Faculty and Students have obtained NPTEL Certification.Institution Innovation Council (IIC) is established to foster the skills of faculty and students to do innovative projects.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	CSIR Sponsored Two Day National Workshop on Theoretical and Computational Fluid Dynamics	21/12/2018	21/12/2018	22/12/2018	58
		View File			

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
International Womens Day Celebrations	08/03/2019	08/03/2019	250	4
Women in Technology	07/09/2018	07/09/2018	152	4
Women in Entrepreneurship	15/10/2018	15/10/2018	123	5
Awareness Program on Gender Equity	14/02/2019	14/02/2019	82	4

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

1. 20 KW Solar Power Plant is effectively functioning in the campus 8 Power Requirement is met Solar On-grid System and other solar systems 2. College hostel hot water requirement for bathing has been met fully by Solar water Heater 3. A sewage Treatment Plant (1500 Litres per day) has been installed at College Campus. Treated water is being used for watering the lawn. 4. Street light in college campus has been powered through Solar Green Campus • The college is a Green Campus with 7500 trees, enhances the ambience and environmental quality. • The practice of rainwater harvesting, check dams, food waste management techniques are being followed in the campus Use of renewable energy • Solar Water Heaters are used in the Hostels and Canteen. • Bio-Gas Plant provides partial gas for cooking food in the hostels. Energy Conservation • All the classrooms are very well ventilated with sufficient lighting, which helps in avoiding the use of fans and lights most of the times. • All the lights and fans are identified with respect to their switches. Students/Faculty are advised to switch off Lights and Fans when not required. • Energy Audits are conducted to monitor and streamline electric power consumption. • CFL bulbs are being replaced with LED bulbs to save electricity. • Electronic chokes are used in tube lights to reduce electricity consumption. • Star rated electrical equipment such as air conditioners and water heaters are used to save Electricity consumption. • All buses have been fitted with speed governors to maintain optimum speed and to save fuel. • Reverse Osmosis Plant is effectively functioning in the college

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	Nill
Ramp/Rails	Yes	4
Braille Software/facilities	Yes	Nill
Scribes for examination	Yes	Nill
Special skill development for differently abled students	Yes	Nill

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	18/06/2018	60	Rural Women Empowerment	Health and Hygiene Problems in Women	80
2019	1	1	01/03/2019	1	Dental Camp	Health Issues	100
2019	1	1	02/03/2019	1	Disaster	Disaster	102

2019	1	1	03/03/2019	1	Blood Donation camp	Health	105
2019	1	1	04/03/2019	1	Drug awareness rally	Drug	102
2019	1	1	05/03/2019	1	Traffic Awareness Programme,	Road Safety	103
2019	1	1	06/03/2019	1	Village Cleaning	Cleanliness	102

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of conduct for the students	02/07/2018	College prepares code of conduct handbook every year. Following actions constitute the Institute code of conduct. • Details of University Regulations, Curriculum and Examination Procedures • Procedure for awarding internal marks • College Rules and Regulations • Hostel Rules and Regulations

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Awareness about Election And Voting	04/09/2018	04/09/2018	40
Seminar On Food Adulteration	10/01/2019	10/01/2019	62
Awareness about Disaster Management	23/02/2019	23/02/2019	73
Yoga for every one	25/03/2019	25/03/2019	85

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Efforts for Carbon neutrality The college makes the student aware of the carbon credits, carbon neutrality and their advantages etc., as a curriculum in the subjects of foundation course and environmental studies in second and third year programmes. Projects/ assignments are also given to students based on topics like India's carbon credit policy, earnings from carbon credit, industrial waste, e- waste, etc., Field visits are arranged for students to explore forest and other ecosystems, water and wastewater treatment plants, to

understand the significance of the process of carbon neutrality. A treatment plant is functioning in the college campus which treats wastewater from hostel and other premises. A well designed biogas plant is fed with mess degradable wastes and we are getting a significant amount of biogas. Reverse Osmosis system is used to treat the water. The reject of RO is used to grow fishes in a lagoon. The solid wastes created in the campus are mainly paper wastes which are put to recycling units. Apart from, we are maintaining a cool and aesthetic environment by maintaining a huge number of trees

Hazardous waste management Hazardous waste is waste that poses substantial threats to the public health or the environment. In our campus we are not creating any hazardous wastes. Other wastes like non-hazardous wastes are treated and discarded using the treatment. In our campus grey water is treated using aeration, filtration method and treated water used for gardening purpose

e-waste management The institution receives major e-waste in the form of computers and its associated accessories because computers are most widely used for all the activities. College follows two methods for e-waste management: 1. Reusable old computers which are in good working condition are donated to a school and an organization working in the field of education. So they get benefited. 2. The remaining e-scrap materials such as CRTs may contain contaminants, which bio-accumulate in the environment and is extremely toxic to humans, in particular adversely affecting kidneys and bones. So the e-scrap generated in this institution stored till sufficient materials are collected. Then the collected e-scrap is sent to a recycling facility for proper disposal.

Energy conservation Energy conservation means that "Efficient Utilization of Energy" to create awareness among the staff and students by providing the energy saving posters like "Save Energy – Save the Globe", "Switch off Fans Lights when not in use", "Electricity saved is electricity generated". In all class rooms, staff rooms, labs etc., these quoted posters are pasted. Thus awareness among the students about the conservation of energy resources is created. Rows of lights parallel to the windows and doors allow them to be switched off when sufficient daylight is available. In administrative block, online grid type solar panels are used to produce electricity of about 70 units per day. In the campus 30 street lights are solar LED lights. We use ENERGYSTAR qualified computers, printers, fax machines, scanners and other equipment which are used for the energy conservation. Regular instruction and monitoring are done for the usage of water by students and staff. Waste water from the college campus is treated and it is reused for plants to reduce the water consumption.

Solar Power Generating Station Solar Power Generating Station was established in the year 2013 within the campus. It has 80 panels of 50 watts producing solar power of 20 kW. Power supplied by this unit is utilized for the student's laboratory classes. It is cheaper than conventional power. Total cost of the solar system station is Rs.26 lakhs. The unit production is being monitored through on-line with personal computer.

Reverse Osmosis Plant A Reverse Osmosis plant of 2000 liters / hour purifying capacity has been installed within the campus to supply purified drinking water to the whole campus including hostels. Around 2400 students, 300 staff members and other are using this water every day. The quality of purified water is checked once in fort-night and the bacterial tests are carried out regularly by Tamil Nadu Water Board, Erode

Effluent Treatment Plant An effluent treatment plant of capacity of 1.5 lakhs liter per day is functioning for treating wastewater. The effluent is collected from the Academic blocks, Boys hostel, Girls hostel and Mess. Bio-gas produced in the plant is used for generating steam in the boiler.

Gardening Wing / House Keeping The Management is keen on developing green campus. Plants and trees are planted to create eco-friendly atmosphere. There

is a team of workers under a campus manager, who monitor the condition of growing nursery and plant saplings and help them to thrive.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice - 1 Title of the Practice : In – house Research Funding Goal : To motivate the faculty and students to do research The Context : To make faculty and students to do research in thrust area. Fetching funds from funding agencies and publishing research paper in reputed/indexed national/international journals. The Practice Faculty members are provided with the research grants by the management to carry out their research under Inhouse research funding scheme and also, they are supported by giving incentives for their consultancy activities. Evidence of Success • Improvement in Faculty and student's technical expertise • Significant improvement in the faculty and student publications • Rs. 33, 69, 504/- worth funds received by the faculty during the academic year Best Practice – 1I Title of the Practice : • Knowledge Sharing Session Goal : To make the faculty and students expertise in their area of interest. The Context The faculty needs to update their technical expertise. Publications of faculty should be improved. The students should get better placement in reputed industries. The Practice 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. Evidence of Success • Improvement in Faculty technical expertise and teaching methodology • Significant improvement in the faculty and student publications • Faculty guided students projects of inter-disciplinary in nature • 94.4 of students got placement in various reputed industries/organizations.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://www.erode-sengunthar.ac.in/bestpractices/

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Vision of the Institution 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 makes them patriotic, successful and self-developed professionals ready to accomplish any job in their career and life. Mission of the Institution • Provide an idyllic study atmosphere, fine infrastructure, qualified and dedicated faculty and standardized systems for a strong career foundation. • 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. • Develop multi-skilled personalities to make ESEC, a world leader in Technical Education. Most of the students studying in our college from rural areas economically poor background, but they are not poor in talent and knowledge. In order to make them into holistic personalities, along with academic enrichment number of activities are organized in the college so as students may get an opportunity to develop their potential. Gives exposure to the students to get an opportunity to participate in every curricular, extracurricular and extension activities very actively. Various clubs, Professional Societies, associations in college offer students a platform to nurture and develop their

soft skills. To reduce the gap between Academia and Industry the institute plans program like Industrial visits, expert talk, seminars, workshops, Internship, Value added courses etc.

Provide the weblink of the institution
http://www.erode-sengunthar.ac.in

8.Future Plans of Actions for Next Academic Year

Motivating students to involve in innovative projects and also to get funding from various funding agencies. Planning to conduct various programs that will create a spark among students regarding leadership and entrepreneurship qualities In Infrastructure aspect ? The college should uphold the concept of cleanliness within the campus areas. ? The motto of the college is 'clean campus and green campuses'. ? For this purpose regular cleaning of classrooms, other rooms and campus will be undertaken jointly by the students, staff members. ? Plan to construct a separate a science and humanities block. ? Plan to construct a extension of PG block. ? To establish new labs and classrooms for information technology and bio medical engineering department.

• To start the new programmes • Sign more MOU with industries /Academic Institutions to augment the skills of both faculty and students • Improve the usage of MOODLE and other software tools to conduct tests, assignment presentations and quizzes by the faculty members. • Enhance R D activities to improve the number of research publications in peer reviewed journals and patents • Strengthen the placement activities for more placement offers and better package. • To get more funds from various agencies for research projects/conduction of training programs • To modernize existing labs to work on cutting edge technologies • To increase the usage of ICT Tools for better Teaching -Learning Process • Train students to do innovative projects and to apply for various funding agencies. • To increase the number of students to appear for GATE GRE and TOEFL examinations. To file more number of intellectual property rights. • To conduct more activities/programs to nurture the holistic development of students • Plan to conduct more programs to kindle the interest of students to learn core concepts and become entrepreneurs