



Yearly Status Report - 2017-2018

Part A

Data of the Institution

1. Name of the Institution	SRI SAI RAM ENGINEERING COLLEGE
Name of the head of the Institution	C. V JAYAKUMAR
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	044-22512222
Mobile no.	9677065557
Registered Email	sairam@sairam.edu.in
Alternate Email	principal@sairam.edu.in
Address	Sai Leo Nagar, Poonthandalam Village, Dharkast Post, West Tambaram, Chennai - 600044
City/Town	KANCHEEPURAM
State/UT	Tamil Nadu
Pincode	600044

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. J. RAJA																
Phone no/Alternate Phone no.			04422512222																
Mobile no.			9444477858																
Registered Email			sairam@sairam.edu.in																
Alternate Email			jraja.ece@sairam.edu.in																
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)			https://sairam.edu.in/wp-content/uploads/2018/08/NAAC-SSR2018-2.pdf																
4. Whether Academic Calendar prepared during the year			Yes																
if yes,whether it is uploaded in the institutional website: Weblink :			https://sairam.edu.in/wp-content/uploads/2020/01/ACADEMIC-CALENDER-2017-181-min.pdf																
5. Accrediation Details																			
<table border="1"> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> <tr> <td>1</td> <td>A+</td> <td>3.37</td> <td>2018</td> <td>02-Nov-2018</td> <td>01-Nov-2023</td> </tr> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A+	3.37	2018	02-Nov-2018	01-Nov-2023
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A+	3.37	2018	02-Nov-2018	01-Nov-2023														
6. Date of Establishment of IQAC			12-Apr-2012																
7. Internal Quality Assurance System																			
<table border="1"> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date & Duration</th> <th>Number of participants/ beneficiaries</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>						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								
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Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries																	

International Seminar On MOOC Pedagogy And Media Competences For E-Learning	28-Aug-2017 1	54
IEEE day celebration	10-Apr-2018 1	120
Guest lecture on Filling of patents and designs	07-Sep-2017 1	28
Workshop on Healthy Long Life for Senior Citizens	31-Aug-2017 2	38
e-waste collection	27-Jan-2018 1	120
One day intercollegiate Mathematics contest	08-Feb-2018 1	145
Engineers Day celebrations	15-Sep-2017 1	95
Womens day celebrations	08-Mar-2018 1	1926
World Health day	07-Apr-2018 1	458
Awareness on NPTEL online courses	09-Feb-2018 1	126
View File		

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
Dr. A. Rajendra Prasad Mr. N. V asudevan/Mechanical Engineering	RPS	AICTE	2018 365	121476
Civil/EIE/IT/Mechanical	Students project	TNSCST	2018 365	60000
Institution	NIMAT	DST	2017 365	90000
Institution	OLPE	EDII	2017 365	27500
Mechanical	Swachh Bharat Mission (Gramin) Divison	Ministry of drinking water Sanitation, Govt. of India	2017 365	411000
Institution	Technology Systems Development Programme	DST	2017 365	1360000
View File				

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 :	2
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	15000
Year	2017
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
1. Effective utilization of SSR hall for video classes on content beyond syllabus	
2. Enrolment of student and faculty for NPTEL examinations and reimbursement(Rs 500 if the score is above 80 and Rs.1000 if the score is above 90) by management	
3. Clubs to have a team lead, activities of the club to be planned in the beginning of the academic year and each student can enroll in a maximum of three clubs	
4. Submission of IIQA for NAAC accreditation	
5. Necessary preparations for NBA visit and up gradation to ISO 9008: 2015 standards.	
View File	
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
To submit IIQA to NAAC	IIQA submitted on 16.11.2017
To prepare a Quality manual as per ISO 9001:2015 standards	Draft copy of the quality manual prepared and circulated

To prepare for the NBA Accreditation for the departments of Civil, CSE, EEE, E&I, Mechanical Engineering and IT	SAR submitted on CIVIL, EIE, EEE - 15.02.2018, MECH, CSE & IT - 18.05.2018 and awareness on OBE created among the faculty
To apply for AICTE CII award	AICTE CII award bagged by CSE and IT departments
To participate in smart India Hackathon	Ten teams selected for final round
To create Industry Institute partnership	Centre of excellence with Salesforce, DELL-EMC
To apply for Ranking and Awards	NIRF Ranking 97th Place, Received Swatchta Ranking 2017 Award, Received ICT Academic Partnership Excellence Award, Received ICT Skill Development Award
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Academic Council	08-May-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	08-Oct-2018
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2018
Date of Submission	05-Feb-2018
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	EDUMATE - EACADEMIC PROCESS AND PROGRESSIVE MANAGEMENT SYSTEM is the Management Information System used for maintaining the records of the students and faculty. Edumate serves as centralised data hub for maintaining all the records of students like internal and end semester examination performance, attendance and On Duty details, Counselling records, extracurricular and cocurricular activities participation, internship,

inplant training, paper presentation/publications, project work, prizes won, details of scholarship received, campus interviews and placement during course of study. The syllabus coverage by faculty, faculty timetable, University examination question paper feeddback, list of mentor students can also be tracked. The personal details of faculty and students like Aadhar card, qualifying academic certificates, experience certificates, NAD registration ID are also maintained at ease through this MIS.

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 College is affiliated to Anna University and the curriculum and syllabi prescribed by the university are strictly adhered to. Steps to strengthen Teaching Learning Process: The academic activities of the college is planned in advance in alignment with the University issued Calendar of Events An objective driven teaching plan is prepared at the beginning of the semester A repository of resources like course material, question bank, lab manual are prepared well before the commencement of the semester. The college maintains well -stacked library facilities with e-journals and software resources for the staff and students to access. Each faculty member maintains a course file that contains lesson plan, notes of lesson, and question bank along with the performance details of the students. The college encourages the adoption of new and innovative teaching techniques, in addition to the traditional lecture methods such as web related assignments, peer learning, group discussion, use of NPTEL lectures, case studies, projects, surveys, quiz etc.,. These processes help to get the students actively involved in the teaching learning processes Well planned and moderated video discussion sessions are arranged for each class where videos depicting the latest technologies are displayed to the students. The students are allowed to discuss, deliberate and innovate upon the ideas within themselves and also with the staff members. Counseling and Mentoring Activities: Each staff member is entrusted with about 15 students. These students are counseled and mentored by the staff member on academic and personal issues, thereby strengthening the bond between teachers and students, leading to a better learning atmosphere and to sustain their performance. A professional medical counselor is available in the campus in case of requirement of professional assistance. Bridging the Gap in Curriculum Guest lectures, seminars by industry personnel are organized by every department Students are taken for a minimum of one Industrial visit per semester. Special value added programs are organized with inputs from the industry representatives and Alumni. The students are supported to take up research projects, presenting papers in international seminars and conferences, publish papers in journals, and to take part project competitions in national and international level like BAJA SAE. Implementation and monitoring of the Effective delivery of the curriculum: The course allotment based on competency matrix, experience, expertise and track record of the faculty member.

Periodical review of the portion coverage and the performance of the students. Monitoring of course delivery and syllabus completion through formal and informal feedbacks. A very systematic examination process, ensuring standard question papers, proper and prompt evaluation and dispatch of reports to parents. Use of Learning Management System: The college has an effective Learning Management System (LMS), Edumate, to record and track students' performance and teaching and evaluation processes. The time table, workload of the staff members are also maintained by the LMS. The internal mark evaluation is standardized by the LMS.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Certificate Program on AutoCAD 3D AZURE	NIL	21/08/2017	5	Employability	Design
Certificate program on Advancement in Special Concrete	NIL	05/02/2018	5	Employability	Design
MICROSOFT AZURE	NIL	31/07/2017	8	Employability	NIL
DATA SCIENCE AND BIG DATA ANALYTICS	NIL	21/12/2017	15	Employability	NIL
Entrepreneurship Awareness Camp	NIL	19/02/2018	3	Entrepreneurship	NIL
Industrial Automation and Instrumentation Design	NIL	18/08/2017	5	Employability	NIL
Training on Designing PCB and Hardware prototype	NIL	31/08/2017	5	Employability	NIL
Embedded System, Design and its Applications	NIL	21/12/2017	5	Employability	NIL
Matlab programming and applications	NIL	19/02/2018	5	Employability	NIL

Entrepreneurship Awareness Camp	NIL	12/03/2018	3	Entrepreneurship	NIL
workshop on Internet Of Things	NIL	14/02/2018	3	Employability	NIL
Entrepreneurship Awareness Camp	NIL	05/02/2018	2	Entrepreneurship	NIL
Distributed Control systems and Field Instruments	NIL	17/07/2017	5	Employability	NIL
Entrepreneurship Awareness Camp	NIL	12/02/2018	2	Entrepreneurship	NIL
MECHSKILL-LYNC	NIL	12/08/2017	5	Employability	NIL
Entrepreneurship Awareness Program	NIL	22/06/2017	5	Employability	NIL
Import Export Management	NIL	22/06/2017	5	Employability	NIL
Stock Market Trading for Budding Professionals	NIL	22/06/2017	5	Employability	NIL
Lean Six Sigma Green Belt	NIL	22/06/2017	5	Employability	NIL
Business Analytics	NIL	22/06/2017	5	Employability	NIL
SOCIAL BEHAVIOUR	NIL	24/01/2018	11	Employability	Self Management
Fundamentals of measurements and data interpretation	NIL	02/09/2017	6	Employability	Measuring skills, data plotting
Entrepreneurship Awareness Camp	NIL	12/07/2017	3	Entrepreneurship	NIL

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
MBA	MBA	22/06/2017
BTech	IT	22/06/2017
BE	EEE	22/06/2017
BE	ECE	22/06/2017
BE	E&I	22/06/2017
BE	PROD	22/06/2017
BE	MECH	22/06/2017
BE	CSE	22/06/2017
BE	CIVIL	22/06/2017
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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	CIVIL	22/06/2017
BE	CSE	22/06/2017
BE	EEE	22/06/2017
BE	ECE	22/06/2017
BE	MECH	22/06/2017
BE	PROD	22/06/2017
BE	E&I	22/06/2017
BE	ICE	22/06/2017
BTech	IT	22/06/2017
MBA	MBA	22/06/2017

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

	Certificate	Diploma Course
Number of Students	1481	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
CISCO NETWORKING ACADEMY	05/07/2018	16
RED HAT ACADEMY	09/02/2018	25
ORACLE TRAINING ACADEMY	22/07/2017	169
SALESFORCE FUNDAMENTALS FOR BUSINESS ADMINISTRATION SPECIALIST	10/09/2017	25
JAVA Training Programme	18/09/2017	30

Testing and Commissioning of Electrical Equipment in substation	11/07/2017	80
Mathematical Foundation for Physics	07/01/2017	15
Distributed Control systems and Field Instruments	17/07/2017	50
Industrial Applications Of Jigs, Fixtures And Press Tools	19/03/2018	146
ORCAD PCB editor	23/03/2018	198
View File		

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	CIVIL	15
BE	CSE	71
BE	ECE	102
BE	EEE	44
BE	E&I	11
BE	ICE	71
BE	MECH	33
BE	PROD	48
BTech	IT	33
MBA	MBA	187
View File		

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
The feedback about the syllabus is collected from the stake holders- teachers, students, parents, Employers and Alumni. The feedback is analyzed and the reports are discussed in the meetings organized by the Governing Council and also the IQAC of the institution. The general feedback was to include more upfront technologies and more industry institute interaction. The feedback is used for introduction of value added programs, certificate courses, for

planning of industry institute interaction activities of the institution. The following actions are taken by the institution with the feedback obtained. 1. The students and faculty are given training in specialized programming skill development platform skillrack. The students are given special training sessions and also tests in the same platform. 2. The students are encouraged to take up internships during the winter and summer vacation to improve industry exposure. Many students take up internships exceeding the vacation period with special permission granted to them. 3. Students are asked to take up mini projects during their pre final year to have practical hands on training on the various technical concepts learnt by them. A mini project expo is also conducted by all the departments and the best is awarded. Industry and academic experts judge the mini projects. Students also present papers based on their mini project ideas. 4. Final year projects expo is conducted and the best projects are awarded. Students are to submit a paper in international conference based on their final year projects. 5. Field projects taken up by the students during their final projects help them to understand the working scenario in the industry. 6. Students are encouraged to take up on line courses on MOOC platforms like SWAYAM NPTEL, Udegy, Course era etc. 7. In addition to the value added courses, the institution initiates to bring industrial giants to share their contemporary knowledge and technological changes in the global context and transform the students. 8. The current industry requirements are collected from the recruiters, industries who have signed a MoU with the institution, resource persons for various programmes and also during Alumni interaction. 9. Staff members should compulsorily attend and organize minimum of one FDP program for a minimum of 5 to 15 days to keep themselves updated on the core technologies 10. The students and staff members are sponsored for attending international conferences and also travel grants are provided 11. The students and staff members are sponsored for applying for patents. 12. Collaborative research and consultancy with industries by the faculty is encouraged.

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	CIVIL ENGINEERING	120	163	91
BE	COMPUTER SCIENCE & ENGINEERING	180	1502	159
BE	ELECTRICAL & ELECTRONICS ENGINEERING	120	302	96
BE	ELECTRONICS & COMMUNICATION ENGINEERING	240	865	210
BE	ELECTRONICS & INSTRUMENTATION ENGINEERING	90	103	83
BE	INSTRUMENTATION & CONTROL ENGINEERING	60	47	38

BE	MECHANICAL ENGINEERING	240	796	217
BE	PRODUCTION ENGINEERING	30	22	20
BTech	INFORMATION TECHNOLOGY	120	312	96
MBA	MASTER OF BUSINESS ADMINISTRATION	120	506	81
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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
2017	4468	224	327	38	365

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	Number of smart classrooms	E-resources and techniques used
365	365	29	20	5	203

[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)

Mentoring system has been introduced to establish a better and effective student-teacher relationship. The system enables to fill the gap between the faculty and students relationship, trust worthiness and guide the students in Academic, personal as well as in career enrichment. Every mentor effectively interacts with allotted mentees regarding their performance in academic progress, personal issues, ambitions and career development. Based on their performance, the mentor used to give effective counselling and motivating the students to come out from the problems and chances to stabilize their life in critical aspects. The students who find it difficult to learn due to lack of self motivation and grasping power in regular learning methods will be specially encouraged to increase mentees self confidence, learning and listening abilities. To make the mentoring system effective at our institution level, training is imparted every year to our faculty members on counselling and mentoring process. Besides, the system enables to identify the hidden talents of the students in various aspects of academic, co-curricular, extra-curricular and extra mural activities so that they can be promoted to do various activities in the concerned area for their holistic development. The students should take prior intimations from the mentor before they absent themselves from classes. They have to submit a leave note for the absence for a period/ day to the Mentor. The mentors and parents mutually contact each other to appraise themselves of their wards progress and take steps to mitigate any shortcomings in academic performance, skill developments and other personality traits. Thus, this system is established to bond a healthy relationship between mentor and ward's family. Students are encouraged to participate in various online webinars, Workshops Symposiums, Hackathon, and other skill development programmes, as well as preparation of online examinations for their academic credentials. The mentors are always supporting the average and below average academic performance students by sharing class notes, hand notes, videos etc. In addition to this, advanced learners and other students are also facilitated with state-of-the-art facilities in terms of well-equipped library provided with

latest edition of books, online journals, computer labs, internet and other amenities. Co-curricular and extra co-curricular activities encourage the students towards participative learning approach. Advance learners are also encouraged to take up internships and industry-based projects. Students also participate along with teachers in research activities and learn beyond the prescribed curriculum.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4695	365	1:13

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
11	11	Nil	11	3

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
2017	Dr.K.MARAN	Director	SEED confers Best Entrepreneurship Development Cell co-ordinator Award
2017	Dr.K.MARAN	Director	Dewang Mehta - National Educational Awards - Education Leadership Award
2018	Dr.B.LATHA	Professor	IOSRD Legend Award 2018 in the 87th International Research Awards on Engineering, Science Management
2018	Dr.T.Sheela	Professor	Kalvi Malar -Immaculate Teacher's Day Excellence award Immaculate-Adyar
2018	Dr.G.AdilineMacriga	Professor	Outstanding Women Educator Scholar Award- National Foundation for Entrepreneurship Development - Women's Day Awards Celebrations
2017	Mr.M.Suresh Kumar	Associate Professor	Expert Level Instructor - CISCO academy
2018	Mr.J.K.PERIASAMY	Associate Professor	Longest Continuous SBC

			under CSI Academic Award
2017	Dr.A.Rajendra Prasad	Professor	Best Departmental Head" Award 2017-SEED Education award
2018	Ms.A.GANGA	Assistant Professor	Best Project Guideship Award
2018	Mrs SaswatiKumariBehera	Assistant Professor	Best Senior Faculty award from DK International Research Foundation (DKIRF-2018) on 27th May 2018 at DS hotel ,Perambalur
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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	VIII / IV YEAR	13/05/2017	13/06/2017
BE	104	VIII / IV YEAR	26/04/2017	13/06/2017
BE	105	VIII / IV YEAR	06/05/2017	13/06/2017
BE	106	VIII / IV YEAR	05/05/2017	13/06/2017
BE	107	VIII / IV YEAR	13/05/2017	13/06/2017
BE	112	VIII / IV YEAR	13/05/2017	13/06/2017
BE	114	VIII / IV YEAR	04/05/2017	13/06/2017
BE	120	VIII / IV YEAR	09/05/2017	13/06/2017
BE	205	VIII / IV YEAR	06/05/2017	13/06/2017
MBA	631	IV / II YEAR	24/06/2017	12/07/2017
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Sri Sairam Engineering College is affiliated to Anna University and as per the university norms 20 marks as internal assessment is computed based on first, second assessment and model examinations. The question paper pattern is based on the UGC norms like Part A, Part B and Part C . The external examinations are conducted by the university authority for the 80 marks which cover all five

units. The first internal assessment syllabus is conducted by covering first one and half units in the syllabus and followed by the second assessment with another one and half units. The model examination is conducted for all the five units. The questions were framed as per the course outcomes and programmed outcomes which enabled to enhancing students skills in the terms of understanding level, application oriented and analytical thinking. The questions papers are prepared based on the revised blooms taxonomy level and mapping with course. To facilitate students for preparing exams, Unit wise question banks are provided for all subjects. The question bank is moderated by faculty members of respective subject groups at department level. Continuous evaluation procedure is followed for practical subjects. Effective implementation of evaluation reform of the university is strictly followed and those initiated by its own are ensured by the institution by strict compliance of process and procedure devised/ suggested by the university in order to follow the continuous evaluation system. The Institute has taken following measures for the effective implementation of the evaluation reforms: Conduction of Examination: The Institute has exam coordinators from each department for smooth conduction of the examination. Three sets of Question papers are prepared by different faculty members and are moderated by the Course Coordinators in respective departments. It is then forwarded to exam cell. The Exam cell of the institution chooses one question paper out of 3 sets and conducts the test in the scheduled time. Internal Practical Examination is conducted at end of the session based on University exam pattern at department level. Evaluation: • Answer key and marking scheme is prepared by every subject teacher before Valuation • Valuation of assessment tests and assignments are done by the respective subject teachers within two days from the exam/submission of assignments. Compiled marks are communicated to students and parents. The students can see their evaluated answer sheets and discuss the same with concerned faculty. All the data are collected and stored in digital format for recovery/reference purpose. Final year project work is jointly evaluated by external examiners. Viva and oral are conducted with the current topics with the relevant academicians and industry people to give an exposure to the students of the various disciplines. For smooth conduction of University theory examination, an internal squad comprising of senior faculty members is appointed. The regulations, curricula and syllabi of all the programmes offered by the Institute are available in the Institute's website.

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

The institutional academic calendar contains plans for curricular and co-curricular activities based on the available working/teaching days as per norms. Academic calendar of the Institute includes schedule of assessment, laboratory practical, university examination, co-curricular activities, technical events, list of holidays and extra-curricular activities. Students are then informed about time table and academic calendar. The detailed lesson plan/teaching methodology as suited to syllabus is prepared by each faculty before start of the semester. Lesson plans are then prepared based on the academic calendar. The lesson plan comprises of content, learning aid and methodology, faculty approach and course outcomes. The lesson plan generally highlights the content and total lectures for completion of the curriculum. Monitoring of implementation of lesson plan is done by Heads of the departments and corrective actions are suggested wherever required. The laboratory Schedule is prepared by the concerned faculty and batch-wise details are specified in laboratory schedule. Time Table of regular lectures for the semester is prepared as well and displayed on the notice board and website. There is an academic monitoring committee appointed by the Principal/HOD who monitors the day- to- day conduct of the lectures based on the time table. In the beginning of the academic session, the students are apprised of academic calendar and

same is uploaded in college website and displayed on notice boards. Any minor changes in academic calendar which may deem fit considering the unforeseen circumstance is done by the authorities of the institution. We have department advisory board and programme assessment committee for the smooth adherence of the academic calendar. These committees are comprised of industrial person, parents, alumni students, current students, Dean and HOD. The committee members suggest number of events to be conducted under co-curricular and extra-curricular activities.

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://sairam.edu.in/naac/>

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
103	BE	CIVIL	120	106	88.33
104	BE	CSE	171	163	95.32
105	BE	EEE	125	117	93.60
106	BE	ECE	233	219	93.99
107	BE	EIE	107	101	94.39
112	BE	ICE	50	49	98.00
114	BE	MECH	253	240	94.86
120	BE	PROD	60	56	93.33
205	BTech	IT	112	110	98.21
631	MBA	MBA	87	84	96.55

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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)

<https://sairam.edu.in/wp-content/uploads/2018/08/SSS-2017-18.pdf>

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
Major Projects	365	Ministry of drinking water Sanitation, Swachh Bharat Mission (Gramin) Divison, Govt. of India	17.66	4.11

Major Projects	365	AICTE Research Promotion Scheme	12.94	0.65
Major Projects	365	BMW Group, India	6.5	6.5
Major Projects	365	Smart India Hackathon (SIH)	3	3
Major Projects	365	Kirloskar Limited, Pune.	2.75	2.75
Major Projects	365	Kirloskar Limited, Pune	2.35	2.35
Major Projects	365	IEDC/ Department of Science Technology	1	1
Major Projects	365	Sapthagiri Educational Trust	1	1
Major Projects	365	Pantech ProEd Private Limited	1	1
Major Projects	365	DST Technology Systems Development Programme	33.69	13.6
View File				

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
Seminar on Management of Intellectual Property Rights	CSE	21/06/2017
Workshop on Introduction to Intellectual Property Rights and emerging trends	CIVIL	15/07/2017
Session on IPR for Research	MECH	17/08/2017
Seminar on Copyright Limitations and Exceptions	PROD	08/09/2017
Workshop on Features of the Copyright Systems	IT	25/10/2017
FDP on Enforcement of Intellectual Property Rights	EI	16/11/2017
Workshop on Intellectual	MECH	18/12/2017

Property Rights and Patent Innovation Management		
Seminar on IPR and Patenting methods	SH	20/02/2018
Seminar on Copyrights for Industrial Design	ECE	19/03/2018
Workshop on Commercialisation of patents	ICE	26/03/2018
Seminar on IPR in focus on copyrights	CSE	09/04/2018
Workshop on Application of IPR and copyrights	IT	22/05/2018
Workshop on Intellectual Property Rights and Patent Innovation Management	EEE	11/01/2018

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
MOBSCOPE	P.S. Surya Meghana, Kannan. C, Lingeshwaran. K	The Most Popular Project of QuEST Ingenium 2017	18/09/2017	National
Extraordinary academic performance	Aparna Ravichandran	"ISTE Chapter Best Student Award - 2016? presented during inaugural function of 16th ISTE TNP Section Annual Convention for Engineering Students held at PSNA College of Engineering Technology, Dindigul	04/03/2018	National
Solar vehicle	Nithya M	Received two awards in ESVC Gujaraj and two awards in ISIE Andrapradesh during the National Level Competition organized by MNRE (Ministry of New and Renewable Energy).	09/04/2018	National

Detection Of Muscular Fatigue On Longer Usage Of Smart Phone using surface EMG	Kalaiarasi R,Sukanya R,Sumithra T,Sruthi S	Received Best paper Award at International conference on "Innovative and Emerging Trends in Engg and Technology at Panimalar Institute of Technology on 9th and 10th March 2018	09/03/2018	National
AN ELECTRONIC AID FOR VISUALLY IMPAIRED WITH NAVIGATION ASSISTANCE"	N.Sathayamala, S.Sushmi Thushara and S.Janani	IEEE PROJECT EXPO 2018 conducted by SRI CHANDRASEKH ARENDRA SARASWATHI VISWA MAHAVIDYALAYA COLLEGE	14/03/2018	Embedded system project
Longest Continuous SBC under CSI Academic Award	Mr.J.K.PERIASAMY	CSI ACADEMY	05/01/2018	Longest Continuous SBC
"Expert Level Instructor" award from CISCO academy	Mr.J.JEGAN AMARNATH	CISCO ACADEMY	24/03/2018	Expert Level Instructor
Best Project Guideship Award	Ms.A.GANGA	SRI SAIRAM ENGINEERING COLLEGE	22/03/2018	Best Project
Wearable device for Blinds-Guide to pick surrounding objects	Soma Prathibha,Ms.Mankala Swetha.N,Ms.Pavithra Lakshmi S.P and Ms.Vanmathi.V	Buoyanci	15/10/2017	Product Development
UTILIZING P300 VIA NON-INVASIVE BRAIN COMPUTER INTERFACE TO CONTROL WHEELCHAIR	A.Gaurav Verma, K.Arun Kumar L.Raghul	University College of Engineering, Kanchipuram	26/03/2018	Embedded system project
View File				

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Sri Sairam Techno Incubator	Dr. Ayyadurai	Leo housing property	Clean Toiletry Cosmetics	Disinfectants	10/07/2017

Foundation			Enterprises		
Sri Sairam Techno Incubator Foundation	Dr.Ashok Gandhi	TN farmer association	Kisan Veetu Keerai	Organic products	21/10/2017
Sri Sairam Techno Incubator Foundation	Dr.Sureshkumar	Oneyes technologies	Sky Mobile App	Mobile application	05/01/2018
Sri Sairam Techno Incubator Foundation	Ms.Panjavarani	Madras electroplates	Star Circuit Design	Electronics manufacturing	15/03/2018
View File					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
22	30	15

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

Name of the Department	Number of PhD's Awarded
CSE	2
EEE	1
ECE	2
IT	3
MECH	2
CHEM	1
ENG	1
PD	1
MBA	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)
International	PROD	5	1.26
International	EI	2	1.94
International	CSE	10	3.2
International	IT	11	1.75
International	MBA	21	2.76
National	MBA	2	2.54
International	SH	21	0.85
National	SH	2	1.3
International	ECE	6	3.24
View File			

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
CSE	81
EI	47
ECE	31
EEE	38
ICE	8
IT	28
MBA	98
MECH	8
PROD	3
SH	5
View File	

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
IoT Based Patient Monitoring System Using Raspberry Pi 3 And Labview	K. Mohanraj, N. Balaji R. Chithra kkannan	Pakistan Journal of Biotechnology 14(3): 337-343	2017	6	Sri Sairam Engineering College	6
Automated Method of Analysing Sputum Smear Tube rculosis Images Using Mult ifractal Approach: Automated Analysis of Sputum Smear Tube rculosis Image	Dr. E. Priya	Bio medical Science And Image Processing In Patient care	2017	6	Sri Sairam Engineering College	Nill
Modulation diversity for differ	Ms. M. K anthimathi	Internat ional Journal of Engineerin	2018	4	Sri Sairam Engineering College	2

essential amplitude and phase shift keying technique		g Technology				
A Medication Self-Management system with real time health monitoring	Ms. K. Lakshmi Joshitha	International Journal of Engineering Technology	2018	3	Sri Sairam Engineering College	Nill
All Optical switching and associated technologies: a review	Ms. V. Sasikala	Journal of Optics Springer	2018	2	Sri Sairam Engineering College	23
An approach to extract edge maps in infrared based breast images using inverse Perona-Malik diffusion filter	Dr. J. Tamil Selvi	International Journal of Biomedical Engineering and Technology	2018	1	Sri Sairam Engineering College	Nill
Modified Contourlet Transform based Effective Image Compression Framework for Wireless Sensor Networks	Ms. G. Sudha	Journal of Advanced Research in Dynamical and Control Systems	2018	1	Sri Sairam Engineering College	1
Mechanism of 3 DOF robotic needle steering model	Ms. S. Usha	International Journal of Recent Engineering Research and Develo	2017	1	Sri Sairam Engineering College	Nill

using Labview		pment-IJRERD				
Analysis of Dielectric lens loaded Antenna	Ms. M. Methini	IEEE digital explorer	2018	1	Sri Sairam Engineering College	2
Inhomogeneity correction and hybrid based segmentation in cardiac MRI	Dr. E. Priya	International Journal Biomedical Engineering and Technology	2018	6	Sri Sairam Engineering College	Nill
View File						

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
Investigation on Mechanical and Thermal Properties of Stainless Steel Wire Mesh-Glass Fibre Reinforced Polymer Composite	Dr. B. Vijaya Ramnath	Silicon	2018	23	5	Sri Sairam Engineering College
Studies On Mechanical Behaviour Of Basalt Fiber Composite	Dr. B. Vijaya Ramnath	IOP Conf. Series: Materials Science and Engineering	2018	23	3	Sri Sairam Engineering College
Design and comparison of strength and efficiency of drive shaft made of steel and	Dr.C. Elanchezhian	Materials Today: Proceedings	2018	20	7	Sri Sairam Engineering College

composite materials							
Review on metal matrix composites for marine applications	Dr.C. Elanchezhian	Materials Today: Proceedings	2018	20	23	Sri Sairam Engineering College	
HHSRP: A Cluster Based Hybrid Hierarchical Secure Routing Protocol For Wireless Sensor Networks	Dr. B. Latha C. Deepa,	Cluster Computing The Journal of Networks, Software Tools and Applications	2018	10	18	Sri Sairam Engineering College	
Review on Testing of Polymer Fasteners	Dr. S. Rajesh	Materials Today: Proceedings	2018	7	2	Sri Sairam Engineering College	
Predictive Delimiter For Multiple Sensitive Attribute Publishnhing	Dr.Sheel a.T Nithya.M	CLUSTER COMPUTING The Journal of Networks, Software Tools and Applications	2018	4	12	Sri Sairam Engineering College	
Analysis Design of single phase power factor correction with GA and Adaptive neuro fuzzy based sliding mode controller using DC-DC SEPIC	Dr.S. Durga Devi	Neural Computing Applications Springer	2018	4	4	Sri Sairam Engineering College	
Structural, non-linear optical	Dr. B. Thanuja	Materials science-poland 3	2018	3	2	Sri Sairam Engineering College	

and dielectric properties of LPA Hcl-manganese sulphate and cadmium chloride co-crystals						
All Optical switching and associated technologies: a review	Ms. V. Sasikala	Journal of Optics Springer	2018	2	23	Sri Sairam Engineering College
View File						

3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	32	77	39	18
Presented papers	153	73	Nill	Nill
Resource persons	13	8	6	4
View File				

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
Republic Day Camp	Director General of NCC, New Delhi	1	3
RDC Launch Camp	Coimbatore NCC Group	1	3
RDC Selection Camp -III	13(Tamilnadu) Battalion NCC	1	5
RDC Selection Camp -II	3(Tamilnadu) Battalion NCC	1	6
VSC – TRG Camp	1(Pondy) Air Sqn NCC	1	3
RDC selection camp – I	13(Tamilnadu) Battalion NCC	1	7
Combined Annual Training Camp cum RDC selection camp	1(Tamilnadu) Battery NCC	2	100

Blood donation camp	NSS, NCC and YRC	2	1001
SOCIAL ENTREPRENEURSHIP	NSS - JEPPIAAR INSTITUTE OF TECHNOLOGY	2	10
INDIA - VOLUNTEERS FELICITATION EVENT	AID India	2	5
View File			

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
MOBSCOPE	The Most Popular Project of QuEST Ingenium 2017, 18th September 2017	QUEST INGENIUM	3
Extraordinary academic performance	ISTE Chapter Best Student Award	ISTE	1
Solar vehicle	Received two awards in ESVC Gujarat and two awards in ISIE Andrapradesh during the National Level Competition organized by MNRE (Ministry of New and Renewable Energy).	MNRE,GOI	1
Tamil Nadu Section Student Award	Best ISTE Tamil Nadu Section Student Award	ISTE	1
District Level Skill Summit 2017	2nd place	Tamilnadu Skill Development Corporation	1
All India Vayu Sainik Camp 2017	The Best Drill Contigent Trophy	All India Vayu Sainik Camp 2017 Held At Jodhpur,rajasthan	1
Dewang Mehta-National Education Award	Education Leadership Award	Dewang Mehta	120
Outstanding and exemplary contribution towards workshops, seminars and other extension activities	Best ISF Award	IETE chennai Centre	600

Apple Worldwide Developer Conference	WWDC Scholarship	Apple Developer Relations	1
International Women's Day Celebration	The Best Outgoing Girl Student Award	Sri Sai Ram Engineering College	4
View File			

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 activities	Number of students participated in such activities
NSS	NSS - Sri Sairam Engineering College	ROAD SAFETY AWARENESS	2	55
NSS	NSS - Sri Sairam Engineering College	CANCER AWARENESS WALKTHON	2	30
NSS	NSS - Sri Sairam Engineering College	WORLD CANCER DAY	2	20
NSS	NSS - Sri Sairam Engineering College	Computer Training for village women	2	15
NSS	NATIONAL YOUTH AFFAIRS AND MINISTRY OF SPORTS	NATIONAL YOUTH FESTIVAL	2	2
NSS	NSS - Sri Sairam Engineering College	Can Do Workshop for Rural Students	2	10
NSS	NSS - Sri Sairam Engineering College	National Integration Camp(NIC)	2	15
NSS	NSS - Sri Sairam Engineering College	Ullas Trust- 'Can Do' Workshop - Rural schools	2	30
NSS	NSS - Sri Sairam Engineering College	Awareness program on Global Warming	2	55
NSS	NSS - Sri Sairam Engineering	Swachh Bharat - Grama Shaba meeting Adopted	2	20

	College	villages			
View File					
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		
Student Exchange programme - University of Malaya, Kuala Lumpur, Malaysia	AJAY KRISHNA SURYANARAYANAN	Management contribution	5		
Student Exchange programme - University of Malaya, Kuala Lumpur, Malaysia	ANUSUYA PONNUSAMY	Management contribution	5		
Student Exchange programme - University of Malaya, Kuala Lumpur, Malaysia	BALAJI ELANGO VAN	Management contribution	5		
Student Exchange programme - University of Malaya, Kuala Lumpur, Malaysia	DEEPA GOWTHAMAN	Management contribution	5		
Student Exchange programme - University of Malaya, Kuala Lumpur, Malaysia	DINESH DHANAKOTTI	Management contribution	5		
Research	BALAJI G	BHEL, Ranipet-632406	90		
Research	AADITHYA R	Grupo Antolin India PVT.LTD	90		
Research	RANJITHA K	ASHOKLEYLAN LTD. Ennore, Chennai-59	90		
Research	SUNIL NAGWAN	Brakes India PVT.LTD. Polambakkam-603312	90		
Research	KALYAN SUNDAR S	Sriram Foams PVT.LTD. Annanagar west Chennai-41	90		
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	Duration From	Duration To	Participant

		with contact details			
Training	In Plant training	ICF	29/11/2017	06/12/2017	S Rahul
Internship	Industry	Schneider Electric Pvt Ltd	26/06/2017	04/08/2017	Lingeswaran K
In-Plant training	Industry	EID Parry India Pvt Ltd	27/11/2017	05/12/2017	Sanjay B
In-Plant training	Industry	Madras Fertilizers Ltd	27/11/2017	01/12/2017	Harini.T.J Dhashini.S S .Rajalakshmi
In-Plant training	Industry	Matrix Arc Solutions.	29/05/2018	31/05/2018	A.Ragavi
Internship	Industry	Infrogro Technologies	05/06/2018	30/06/2018	Sowmya. S Aiswayashree
In-Plant training	Industry	CPCL	22/01/2018	09/02/2018	Rakshana C V Shruthi B Krithika A
In-Plant training	Industry	VI Microsystems Pvt Ltd	27/11/2017	02/12/2017	P.Uvashri B.Subathra Rajeshwari Jayakumar V.Lishitha C.M.N.Monica L.Bhavani
In-Plant training	Industry	Mel System and Service Ltd	07/12/2017	13/12/2017	S.Lakshmidharan
In-Plant training	Industry	UNIQ Technologies	18/06/2017	20/06/2017	"Saumya.S Nithya.M V.Preethi M.Vaishavi"
View File					

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
Minmax Instruments, Chennai	05/12/2017	Guest Lecture, Internship, Inplant Training, Workshops	120
Bestmach Chennai	19/03/2018	Guest Lecture, Internship, Inplant Training, Workshops	120
IEEE -RPS	04/05/2017	International Conference on Communication, Computing and IOT (IC3IOT)- 3 days	300

CADDAM Technologies Pvt Ltd	05/04/2018	Workshop	114
Skill Lync	04/01/2018	Online courses	50
Sri Sairam Engineering College	24/01/2018	Two day workshop on REDHAT Technology Industry adaptation on 19.12.2017 20.12.2017	154
NASSCOM	21/06/2018	Training	40
Red hat Academy	24/01/2018	Training	100
E-Vault Technologies, Malaysia	23/02/2017	Training	300
Lema Labs, IIT Research park, Chennai	22/02/2018	Workshop on Internet of Things	120
View File			

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
760	762

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar Halls	Newly Added
Laboratories	Newly Added
Class rooms	Newly Added
Campus Area	Existing
View File	

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
SAIABRAS	Fully	3	2002

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	63151	17998000	2045	775000	65196	18773000
Reference Books	4485	1628000	15	42000	4500	1670000
e-Books	6800	68000	Nill	Nill	6800	68000
Journals	157	Nill	Nill	281000	157	281000
e-Journals	Nill	Nill	4	1342000	4	1342000
Digital Database	1	Nill	Nill	14000	1	14000
CD & Video	95	28000	Nill	Nill	95	28000
Weeding (hard & soft)	386	181000	Nill	Nill	386	181000
Others(s pecify)	5416	Nill	415	Nill	5831	Nill
Others(s pecify)	Nill	Nill	Nill	117000	Nill	117000
View File						

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
Ms.N.Nithyarani	PID control	SSEC INTRANET/YOUTUBE	16/03/2018
Ms.T.Tamilselvi	Telemetry System	SSEC INTRANET/YOUTUBE	30/03/2018
Ms.C.Komathi	Stability analysis	SSEC INTRANET/YOUTUBE	08/02/2018
Ms.Swagata Sarkar	Mobile Communication	SSEC INTRANET/YOUTUBE	18/01/2018
Dr.C.Priya	Electric Power System	SSEC INTRANET/YOUTUBE	28/12/2017
Juno Bella Gracia	Data Structures	SSEC INTRANET/YOUTUBE	15/02/2018
Dr.V.Manickavasagam	Engineering Mechnaics	SSEC INTRANET/YOUTUBE	16/11/2017
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	1320	40	40	1	1	30	9	155	0
Added	100	0	0	0	0	0	0	0	0
Total	1420	40	40	1	1	30	9	155	0

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

155 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
MEDIA CENTRE ROOM	https://www.youtube.com/watch?v=JgwsWRxkdRM

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 incurred on maintenance of physical facilities
460	468	760	762

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 appointed several personnel for maintaining the infrastructure by way of building maintenance, transport, furniture and generator operator in case if the power shuts down. Separate Complaint registers were maintained for various services like electrical, plumbing, housekeeping etc. The people, who work here on maintenance of the college, will report regularly about the breakage of instruments and devices to the higher authority. Any complaint regarding the maintenance sector is viewed seriously and will be rectified at once. Several faculties are appointed as in-charges of laboratories. These people monitor the students during their practical session and they are responsible for maintenance of the equipment and computers in the laboratories. System Administrators and network administrators monitor the networking in the campus. Any fault in network is reported to the networking team headed by Dean Networking, who in turn looks after the faults and solves it. Overall maintenance of Computer Labs • Maintaining the servers. • Creating, adding/deleting/modifying user account information, resetting passwords, etc. • Maintaining backups of data. • Maintaining all the computer systems, • Installing software. • Troubleshooting any reported problems in H/W and S/W. • Troubleshooting any problems in LAN Networking. • Applying operating system updates, and configuration changes. • Installing and configuring new hardware/software. • Answering technical queries to the students. • Responsibility for security. • Responsibility for documenting the configuration of the system. • Responsibility for Preventive Maintenance. • Overall Responsibility for Computer systems, UPS and Power etc. For System and UPS: Daily activities Weekly Activities Monthly activities Power cord checking

Monitor and System Monitor Display Keyboard and Mouse Check Battery backup
 checkup Power checkup Cleaning Antivirus Updation Scanning Deleting Temp files
 Battery power Checkup The Rules and regulations should be followed in the lab
 are: • Students should be punctual in attending the lab • Students should
 strictly wear lab coat and shoes inside the lab • Students have to attend the
 lab classes with required manual updated observation notebooks and record books
 • Absentees and late comers should get permission from the concerned lab-in
 charge to attend the lab • Students will not be permitted to leave the lab
 during the lab hours • Students should maintain discipline in the lab
 Maintenance of Laboratory Equipment:- • Regular checkup of equipment is carried
 out at the end of every semester. • Breakdown register is maintained in the
 laboratories. • As per the requirement minor repairs are carried out by the lab
 assistant of faculty member. • Maintenance of computers is taken care by IT and
 COMPUTER department. • Major repairs are outsourced by following the procedure
 of the institute. • Stock verification is done at the end of every year by the
 staff members from other department and the report is submitted to the
 Principal.

<https://www.sairam.edu.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	Leo Muthu Merit Scholarship and Freeships for Agaram and Maatram	179	6272500
Financial Support from Other Sources			
a) National	Government and Non- government schemes	1892	36061255
b) International	NIL	Nill	0
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	20/07/2017	3494	1. Focus Academy for Career Enhancement 12, Lakshmi Nagar, Avinashi Road, Coimbatore - 641014 Mobile : 9786049555 Email : deepak@focusacademy.in 2. ETHNUS No.797, 10th Main Road, Jayanagar 4th Block, Bangalore 560 011. 3. PeeCee Castle Software Se

Remedial coaching	18/08/2017	1092	Staff handling the subject
Language lab	20/07/2017	1146	Faculty of English
Bridge courses	03/08/2017	985	Faculty of Science and Humanities
Yoga and Meditation	27/07/2017	153	1.SKY Trust 26, II Seaward Road, Valmiki Nagar, Thiruvannamiyur, Chennai - 600041. Telephone : 42300194, 9840062350 Email: ch.a284@vethathiri.edu.in, attvmvkmtrust@hotmail.com 2.Isha Life, No.117, Luz Church Road, Near Nageshwara Rao Park, Mylapore,
Personal Counseling and mentoring	21/08/2017	4640	Individual Faculty-in-charge, HOD, Class Co-ordinators Mentors (all students)
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 passed in the comp. exam	Number of students placed
2018	UPSC, TNPSC and other competitive examination coaching classes by Kingmakers IAS Academy, GATE coaching classes by Gate forum	148	3494	12	968
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
12	12	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
ACT Fibernet	124	5	EdXengine	79	26
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	Department graduated from	Name of institution joined	Name of programme admitted to
2018	1	B.E	CSE	Seneca College, Universität	M.S
2018	1	B.E	PROD	Sapienza University of Rome, Italy	M.S. in Transportation Engineering
2018	1	B.E	CIVIL	German Institute of science & Technology (TUM Asia Pte Ltd)	M.S (Transport & Logistics)
2018	1	B.Tech	IT	University of Melbourne	M.S
2018	1	B.E	MECH	University of Windsor	M.S. in Mechanical Engineering
2018	1	B.E	CSE	George Washington University	M.S
2018	1	B.E	ICE	Anna University	M.E
2018	1	B.E	EEE	Università Politecnica	Msc Energy for Smart Cities
2018	1	B.E	ECE	Carleton University	M.S
2018	1	B.E	EI	New York University, USA	M.S- Electrical Engg
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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	6
GRE	16
TOFEL	25
Any Other	1
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Ball Badminton	Anna University Zone and Inter-zone (State level)	8
Hockey (M)	Anna University Zone and Inter-zone (State level)	18
Badminton (M)	Anna University Zone and Inter-zone (State level)	7
Badminton (W)	Anna University Zone and Inter-zone (State level)	5
Football (M)	Anna University Zone and Inter-zone (State level)	18
Table Tennis (W)	Anna University Zone and Inter-zone (State level)	5
Athletics(M)	Anna University Zone and Inter-zone (State level)	30
Athletics(W)	Anna University Zone and Inter-zone (State level)	25
Basket Ball (M)	Anna University Zone and Inter-zone (State level)	12
Table Tennis (M)	Dr. S. Seetharaman Ms S Lakshmiammal Memorial Trophies (State level)	5
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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
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2017	Winner/Gold Medal-Volleyball	National	1	1	E5IC045	Saraswathi.R
2017	Gold Medal-Squash Rockets	National	1	1	E5CI008	CMS. Selvarajan
2017	Gold Medal-"Athletics (Marathon)"	National	1	1	E6EC196	Samyuktha.R
2017	Winners-Chess	National	1	1	E4CS079	Swetha.G
2017	Gold Medal-Karate	National	1	1	E6CE076	Dhanavathani.K
2017	Silver Medal-Table Tennis	National	1	1	E7EI067	DeviSree
2017	Quiz, Photography	National	1	2	E4IC016	E.Dinesh
2017	Mimicry, Quiz	National	1	2	E4IC049	J. Venkatesh
2017	Tamil-Oratorical , Tamil-Speech, MASH up	National	1	3	E4IC037	S.Gokulnath

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

Every year, a Student council is formed consisting of one student representative from various committees of individual Departments. From the council framed one student is selected as Student Chairman every year. The student council plays a vital role in Departmental activities such as organizing symposiums, seminars, conferences and workshops. The council members and all the other students deliberately involve themselves in their Department newsletter preparation and in the editorial committee. The student representatives also participate in the preparation of the college calendar every year to plan college activities Department wise. Especially the Department symposia are completely planned, organized and conducted by the students under the supervision of the faculty. The students involve themselves in events such as college day, hostel day, Independence Day, Republic day, interacting with alumni and various club activities. Each club has several students who take on leadership roles and organize the events and get very good exposure. They also involve in social activities such as visiting villages, creating awareness on various social issues. The student representatives also actively participate in the Sports committee, cultural committee, magazine committee, calendar committee etc. The college provides ample avenues for developing technical skills, updating knowledge, personality development and service to the society through various Associations and Societies. There is a staff advisor to guide the students in the smooth and effective functioning of the Associations. A student- curator team, organizes TEDx- event from 2012 onwards. Every year the TEDx Sairam is aimed to plan with a theme. Exciting list of speakers addressed on the theme coined.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The alumnus forms the major strength of the institution. The Alumni Association was formed in the year 2007 under the name "Sri Sairam Engineering College Alumni Association" with the Reg. No: 220/2007. The alumni meet is conducted once in a year, where the alumni from different branches of the undergraduate and postgraduate programs share their views and give suggestions for the betterment of their junior students. The alumni meet is hosted by the alumni association. Such meetings are mutually beneficial for the Institution and the alumni. This provides an opportunity for the alumni to meet their friends and act as a bridge for the faculty to share their experience, knowledge and insights. The alumni visit the institution to deliver Guest lectures and seminars for the students in their areas of expertise and motivate the young minds. Successful entrepreneurs from the alumnus are invited to talk on their success stories at various occasions of the Institute. The alumni also help the final year students of the various streams of engineering and business administration to get their project placements and summer internship in their companies or to assist them get it through their reference. They also assist the students for placement in public and private sectors and the regular alumni association meetings pave the way for the successful placements of the students.

5.4.2 – No. of enrolled Alumni:

405

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

368500

5.4.4 – Meetings/activities organized by Alumni Association :

Sri Sairam Engineering College Alumni Association is a registered body and has members with active participation in organising the Alumni meet religiously by inviting all the alumni. The norms are adhered, audited and reports are submitted to the respective authorities. The Association actively organises the regular meets. The Alumni Meet for the year 2018 was conducted on 16th June at Green Park, Vadapalani, Chennai. The Alumni President delivered the welcome address to the gathered Alumni Our CEO Mr. Sai Prakash Leo Muthu who is one of our Alumni greeted all of his Alumni friends. Our Principal Dr.C.V.Jayakumar welcomed all the alumni and delivered the special address. Many of the Alumni have shared their views on the college and their outside world experience to the gathering. Few distinguished Alumni were honoured by Our CEO. The alumni rejoiced their golden memories at the institution with their presence. Many entertaining events and competitions were conducted and the prizes were distributed. Few of them have assured that they will share their knowledge and job opportunities in their domain to the current students of the college. The alumni were contacted by the respective departments for providing the assistance on the student's placements, summer internship, and projects and also for delivering the guest lectures, acting as the guest and judges for the programmes and other collegiate activities. The Alumni meet entertained the alumni and their family by conducting fun frolic events and competitions. They were provided with a sumptuous feast and had a mutually beneficial networking session.

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)

The Management and HOI follows participative management and decentralised procedure in all the activities of the Institution. Regular Management Review Meetings, Departmental review meetings, Governing Council meeting, BoS, DAB and PAC committee meetings are conducted religiously to enhance quality in administration and teaching learning process. In the academic year 2017-2018, one of the good practices of participatory management is the revision in the existing IQAC office members as per the guidelines issued by NAAC. Members from the management, local society, Expert from Industry, Parents of students and Alumni were added as IQAC office members. Training and Placement officer, Librarian, Physical director and Administrative Manager were categorised as senior administrative officers of IQAC. It was ensured that there is at least one representative from the existing Engineering Programs in the Institution as an IQAC member. The frequency of the IQAC meetings were decided as once in a quarter, the number of meetings shall be increased if necessity occurs. Two meetings with the internal members alone and four meetings with both internal and external members were planned. The IQAC representatives of the department represent as a whole for their departmental activities. The minutes of the IQAC meeting and ATR shall be provided to all Heads of the Departments and the HoDs shall participate in the IQAC meetings as and when required. The timely submission of AQAR and as 'quality work becoming an order of the day shall be guaranteed in the institution by IQAC. Quality enhancement and quality sustenance in teaching learning process, research, student support, extension activities, faculty empowerment was decided as the main objective of IQAC. The other major participatory activity is the revamping of the existing twenty-one student clubs. The Management review meetings were conducted regularly with a frequency of twice in a year. In the MRM held on 4th December 2017 it was decided to segregate the clubs under the following four categories: Technical Club, Service Club (Service to the society), Skill Building Club and Hobbies Club and a faculty can be a facilitator or coordinator of the club. It was decided to have a Statement of purpose, Calendar of activities (Four activities in an academic year), and a formal structure of the club comprising of - Club President, Club Secretary, Vice President and Treasurer. Several student members from all the classes were allowed to register their names in a minimum of three club activities(at least one technical club) and it shall be posted in EDUMATE, the Sairam MIS. Students were expected to participate actively in these clubs by arranging quality activities. It was decided to categorise the student members of the club as Gold, Silver and Bronze and certificates may be issued depending on their involvement and participation in the activities of the club.

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
Admission of Students	Constant development and strengthen the infrastructure, lab equipment and teachers quality to enhance the quality of admission in engineering program. In addition to this, providing more number of value added courses, skill development program, ED program and quality placement leads to the quality

	<p>of admission. Online registration is done for management quota. The Leo Muthu Scholarship (LMS) programme was launched for meritorious students in 12th students who get addmitted in our college. Meritorious students were supported by Agaram and Maatram foundations to complete their studies,in our college, by fully financing their fees.</p>
Industry Interaction / Collaboration	<p>Our institute signed MoU with various industries for collaborative research, industrial training, consultancy, industry expert talk, internship, inplant training, certificate courses and other collaborative activities frequently interacting with industry for betterment of student and faculty community, centre of excellence were supported by the industries. Start-up and incubation facilities provided by the industries.</p>
Human Resource Management	<p>The human resources department takes care of the recruitment selection, appraisal and equipping the faculty quality for teaching, research, consultancy and also creating good working environment to lead their academic and family life successfully. The roles and responsibilities of all employees are well defined for the smooth conduct of all activities in the institution.</p>
Library, ICT and Physical Infrastructure / Instrumentation	<p>There are more than 70,000 books and reference volumes stacked for the benefit of staff and students. There is an established media resource centre. The library subscribes more than 157 specialized journals, over one third of them being international Journals. Online journal and e-book collection also subscribed through e-shodh Sindhu. We are also a member of US information service (USIS), British Council Library, CSIR, DELNET, CII, Madras Productivity Council and Anna University. The NPTEL Local Chapter of our college was started in the year 2017. Apart from smart classrooms, SSR hall and VRR hall were exclusively used for video classes. Well equipped classrooms, laboratories with latest instruments.</p>
Teaching and Learning	<p>In teaching - learning process, teachers used to conduct the regular classes, laboratory experiments,</p>

project reviews and conducting the assessment tests including end semester examinations. The teachers are using different teaching pedagogy with information communication tools (ICT) like Video discussion, Group Discussion, Seminar presentations, Technology development, preparation of assignment and encouraging students to learn online courses (MOOC).

Curriculum Development

Our college is affiliated to Anna university and as per the regulations 2017, the syllabus was revised for the first years and new courses were introduced. The existing 2013 regulations was followed for higher semesters. The department advisory board has identify the gap between present curriculum and industry requirement, based on this the gap, the certification courses, online courses, industrial visits and industry experts talk are implemented to enrich students knowledge and to gain more industry exposure.

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

E-governace area	Details
Planning and Development	The Vision and Mission, academic calendar, code of conduct are disclosed in our website in the transperant manner. The Planning and development activities are measured and evaluated through the e-Governance system including academic planning, activities, student progress like attendance, assessment performance, skill rack performance etc. Teaching-learning materials uploaded and other development activities.
Student Admission and Support	We have a college web portal for inviting students who seek admission into our institution by registering in our college website. Payment of student fees through online mode. Students attendance, Internal assessment test marks, curricular and cocurricular activites of each student is available in online platform.Topic covered report of faculty, students name list ,time table are made available in EDUMATE. For placement activites , skill rack is a platform where students practice online. TAP cell activities are maintained online through Campus interaction maintains the The library resources are maintined online by

	SAIABRAS.
Administration	Faculty information and student information are maintained online. A strong MIS supports the administrative activities. Circulars, meeting agenda, and minutes of meeting are sent through electronic mode.
Finance and Accounts	The institutions financial transaction and accounts database is maintained in a systematic manner with accounting software package. Students fees collection includes exam fees, transport fees, hostel fees and other kind of fees collection is only through online and money disposable methods, namely, salary and other day to day expenses maintained by the accounting software and everyday the accounts managers will be enabled to find out the accounting and financial status. The income tax details and PF details also maintained online.
Examination	The internal examination portal is maintained by EDUMATE. The invigilation duties are sent through email, marks and attendance of internal examinations are also maintained in the digital format in EDUMATE portal.

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
2017	Devakandhan R	Seminar on Trends in Urban Planning sustainable Development Environment Mgmt	NIL	750
2018	Ms.R.Valarmathi	Workshop -Hands on Training on Machine Learning Algorithms using Python	NIL	1000
2017	Mr J Prakash	Cisco Instructor Program	NIL	27450
2017	Ms. R. Gayathri Devi	International Conference on COMPUTER and	NIL	29683

		DRONE Applications (IconDA) 2017, held in Universiti Teknologi MARA, Sarawak, Kuching, MALAYSIA, 9th-11th Nov 2017.		
2017	Ms. K. Thirupurasundari	FDP- Soft Computing and Bio-Inspired Optimization using MATLAB, Madras Institute of Technology, Chennai	NIL	1000
2017	R.Chithrakannan	Work shop on MPC designs and implementation Issues	NIL	500
2017	Dr. T.K. Subramaniam	8th International Conference on Lasers, Optics and Photonics	NIL	146048
2017	R. SENTHIL KUMAR	Strength of materials - NPTEL	NIL	500
2017	Dr.R.Premanand	DIAM	NIL	71493
2018	Dr.V.Hemanth kumar	3rd International Conference on TRINC 2018 On Globalization: Unleashing Potential, Harnessing Opportunities and Embracing Change	NIL	2500
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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)
2017	FDP on Effective	NIL	18/12/2017	22/12/2017	25	Nil

	Teaching Learning process in Technical Education					
2017	SDTP on CONTROL SYSTEM	NIL	01/06/2017	08/06/2017	25	Nill
2018	Emerging Trends and Future Perspective in Image Processing and Computer Vision	NIL	01/03/2018	01/04/2018	40	Nill
2017	Role of Academic Excellence in Developing World Class Higher Learning Institutions and Faculties	Role of Academic Excellence in Developing World Class Higher Learning Institutions and Faculties	10/10/2017	14/10/2017	83	16
2017	Social Science Research Analytic Using SPSS	NIL	14/02/2018	19/02/2018	73	Nill
2017	NIL	Safety measurements in laboratories by Mr. A. Rajarajan, Managing Director, Jeyam Electronics, Chennai	22/11/2017	22/11/2017	Nill	5
2017	Workshop on Redhat(open Source)Technology and Industry Adaptation	Workshop on Redhat(open Source)Technology and Industry Adaptation	05/12/2017	05/12/2017	13	5
2017	NIL	CCNA Advanced Routing	07/09/2017	07/09/2017	Nill	5

		Switching Techniques				
2018	International Conference on Communication, Computing and IOT (IC3IOT)- 3 days	NIL	15/02/2018	17/02/2018	70	2
2017	"NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAM ON ELECTRICAL SIMULATION SOFTWARE (FDP 17)"	NIL	06/11/2017	10/11/2017	25	Nil

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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
Workshop on Recent Trends in Additive Manufacturing of Tissues and Organs	2	26/04/2018	27/04/2018	2
Two days Workshop on Automotive Technology	12	12/09/2017	13/09/2017	2
ETAP and PV system software training	1	16/05/2017	17/06/2017	30
FDP on Design of Micro optical Components using Advanced Software Tool	3	27/11/2017	09/12/2017	13
FDP on Smart Grid and Internet of Things (IoT): The Future Energy Delivery System	2	27/11/2017	10/12/2017	14

Workshop on Data Science and Big Data Analytics (ICT ACADEMY)	17	11/09/2017	15/09/2017	5
Workshop on python programming	3	17/08/2017	18/08/2017	2
FDP on Internet of Things-(ICT ACADEMY)	4	26/07/2017	27/07/2017	2
FDP on CS6703-Grid and cloud computing-(Anna University)	7	08/06/2017	16/06/2017	7
FDP on Modern Pedagogy for Engineering Teachers in Making Digital India	1	21/05/2018	26/05/2018	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
11	11	3	3

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Free transport facilities. - Cab and telecom facilities for Heads of the department and senior faculty. - Medical leave. - Maternity leave. - Wedding gifts with one-week leave. - Special study leave to pursue higher education. - Support for the children education in schooling and higher studies - Group insurance. - Medical support - Subsidiary fare in canteen facilities and hostel facilities - Housing facilities for staff-Sabbatical leave is provided for staffs-</p>	<p>Free transport facilities - Medical leave. - Maternity leave. - Marriage gifts with one-week leave. - Special study leave to pursue higher education. - Support for the children education in schooling and higher studies - Group insurance. - Medical support - Subsidiary fare in canteen facilities and hostel facilities. - Housing facilities for staff-Sabbatical leave is provided for staffs</p>	<p>Leo-Muthu Merit Scholarship for students. - Leo-Muthu Merit Scholarship for centum scorers in Mathematics, Physics and Chemistry. - Fee waiver to students from financially weaker strata of society. - Free admission of students through Maatram and Agaram foundation. - Fee waiver for students who excel in sports. - Special cash awards to National level and global level achievers. - Sponsorship to attend conference in abroad -student exchange programs are encouraged- Cash awards to best</p>

Teachers day gift for all faculty	projects. (IV year). - Cash awards to best mini projects (III year)-National level competitions are conducted for the welfare of students.Students, who excel in their academic result, will get the benefit of attending direct placement conducted interviews in our campus. Other students, who may not have shown excellence in academics, are also given a chance in the placement conducted interviews, where the students will have to write a written test, followed by a Group discussion and an interview to get through in the selection process.
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6.4 – Financial Management and Resource Mobilization

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

Internal and external audits for accounts department are conducted regularly. The advance given for conduct of symposiums, departmental events, guest lectures shall be settled by the 31st March of every year for smooth conduct of audits. The internal audit team are from the trust office and this audit members conduct audit after the closure of accounts every year. . During the course of Internal Audit, all required steps are taken to regularize the accounts and to obtain confirmations for the credit balances, to collect documentary evidences wherever inadequate in respect of payments, compliances of T.D.S. and Statutory Formalities and Reconciliation of Unit wise balances with the Control Accounts and Bank Reconciliations. External Statutory Audit is conducted, and the consolidated reports are submitted to the relevant authorities. All Utilization Certificates are countersigned by the Chartered Accountant. All Financial Statements for the Financial Year 2017-2018 have been certified by the Chartered Accountant.

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
Mr SATHIKALI/ F/O S. MOHAMED AARIFF	5000	Additional Gifts to Conferences
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6.4.3 – Total corpus fund generated

1400000

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	IQAC Audit and Creative Management Consultants	Yes	Academic Audit Committee
Administrative	Yes	IQAC Audit and Creative Management Consultants	Yes	Trust Office

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

The parents-teacher association suggested to conduct in-house training for the students appearing in GATE, GRE, TOEFL and Civil services examinations. It was implemented and every week Friday(one session) and Saturday(two sessions) classes were conducted by experts for registered students. Video presentations in SSR Hall that makes the students to gain knowledge in content beyond the syllabus was well appreciated by the parent- teacher association. Counselling sessions conducted to slow learners in the presence of the parents. To apply for more awards and certifications. Attendance defaulters were informed to their parents to have a necessary follow up of their wards. Parents are invited during the Induction day and graduation day, feedbacks are collected and analysed for improvement. Parents are invited during the awards of merit scholarship to their wards and their suggestions are well taken.

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

- One Week Training Programme in association With Usha Fire Safety On"First Aid and Fire Safety. • 1 day training programme on Laboratory equipment Technical Maintenance on 29.11.17. • 1 day Workshop on Redhat(open Source)Technology and Industry Adaptation1 day Workshop on Redhat(open Source)Technology and Industry Adaptation on 5.12.17

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

To apply for permanent affiliation and to apply for 12b certification from UGC
To apply for fresh autonomous status To focus on quality research proposals and apply for funds from government agencies To implement assessment and evaluation focussed on OBE

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
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	A briefing session to faculty members on open electives	19/04/2018	19/04/2018	19/04/2018	45

	introduced in regulation 2017 by Anna University.				
2017	Seminar on "Responsibilities for Engineers"	06/07/2017	06/07/2017	06/07/2017	97
2017	Launch Of e-Waste Collection an awareness program	27/06/2017	27/06/2017	27/06/2017	120
2017	Awareness program on "Higher Studies In Abroad"	19/12/2017	19/12/2017	19/12/2017	55
2018	A Motivation Talk On " Stress Management Adapting To Industrial Environment"	20/02/2018	20/02/2018	20/02/2018	90
2018	Seminar on Career opportunities for the youth in Research Institutions in India	11/01/2018	11/01/2018	11/01/2018	145
2018	Organ donation awareness camp	13/03/2018	13/03/2018	13/03/2018	228
2018	workshop on the importance and need of IPR filing from students perspective	23/03/2018	23/03/2018	23/03/2018	58
2018	A briefing session by IQAC coordinator to faculty members on submission of AQAR	05/04/2018	05/04/2018	05/04/2018	225

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
Entrepreneurs hip Awareness Workshop	12/07/2017	14/07/2017	160	140
Entrepreneurs hip and Innovation as Career Opportunity for women	04/08/2017	04/08/2017	350	50
Programme on Self defence workshop for women	05/09/2017	05/09/2017	180	200
Awareness on Eradication of poverty	14/10/2017	14/10/2017	420	550
TEDx Sairam	24/10/2017	24/10/2017	120	140
Programme on capacity building in gender equity	21/10/2017	21/10/2017	280	350
Seminar on inequality of women in India	11/12/2017	11/12/2017	200	250
Gender pay gap awareness programme	03/01/2018	03/01/2018	210	280
Cancer awareness day Walkathon	03/02/2018	03/02/2018	300	450
Three Days Entrepreneurship Awareness Camp (EAC)	05/02/2018	05/02/2018	110	100
Three Days Entrepreneurship Awareness Camp (EAC)	07/02/2018	07/02/2018	120	90
Three Days Entrepreneurship Awareness Camp (EAC)	19/02/2018	19/02/2018	100	90

Sports Day	06/03/2018	06/03/2018	550	700
Women's Day Celebrations	08/03/2018	08/03/2018	1100	200
Three Days Entrepreneurship Awareness Camp (EAC)	12/03/2018	14/03/2018	90	80
Three Days Entrepreneurship Awareness Camp (EAC)	19/03/2018	21/03/2018	100	90
Awareness programme on female infanticide	05/04/2018	05/04/2018	230	90
Entrepreneurs hip conclave	13/07/2017	14/07/2017	120	80
Empowerment of Young Engineers in Entrepreneurship	17/08/2017	17/08/2017	110	70

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
Average Waste Collection details: Vegetable waste, Paper waste, Tree trimmings • Total waste generated - 32 Tonnes • Fertilizer Produced - 4082 Kgs. 35 of power requirement is met through LEDs. Lighting power requirement met through LED bulbs - 52.3 KWH

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	5
Provision for lift	Yes	10
Ramp/Rails	Yes	15
Braille Software/facilities	Yes	Nil
Rest Rooms	Yes	25
Scribes for examination	Yes	1
Special skill development for differently abled students	Yes	1
Any other similar facility	Yes	15

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages	Number of initiatives taken to engage with and	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
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	and disadvantages	contribute to local community					
2017	3	13	12/07/2017	1	Awareness program on Traffic Safety	Awareness on Traffic	300

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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 - STUDENTS	01/06/2017	<p>We inculcate human values and professional ethics are more important for budding engineers in the complex society, understanding of individual and others value for smooth functioning of their career and chances to sustaining in the competitive world. All the students are expected to enter the college premises with Identity card. Carry the respective books and records respectively. Attend the classes punctually. They are permitted to borrow the books from library and return the same after the stipulated period. They have to remit their fees only at the college office and has the right to claim the receipt for the same. The students are instructed not to involve in any act of misconduct, rule violations and ragging activities. The students are to actively involve themselves in community service that fosters integrity towards the intellectual and ethical environment of the institution and mould them as a better personality. Unauthorized use of college premises</p>

		<p>after the class hours is strictly prohibited, special permission shall be given based on request to practice sports and co-curricular activities. Smoking and consumption of alcohol in any form is strictly prohibited and leads to severe action.</p>
<p>CODE OF CONDUCT - TEACHING STAFF</p>	<p>01/06/2017</p>	<p>Teaching staff must demonstrate impartiality, integrity, and ethical behavior in the classroom, They should inculcate and focus on Integrity, Objectivity, Professional competence and due care, Confidentiality, and Professional behavior. They are also motivated to focus on their respective roles and responsibilities. Every student has to be monitored regularly and must observe and adhere to the provisions of the University. Apart from these regular activities, the extra-curricular, co-curricular activities shall be given due importance. During the period of service all the members of the staff shall employee themselves honestly and efficiently under the order of the Head of the Institution. No faculty shall engage in any political activity with in the college campus. All the members of the staff must attend punctually at the appointed time. Every teacher shall be available in the institution on each working day and shall perform duties as assigned to them. The routine duties shall consist teaching/practical, In addition, they have to</p>

		<p>undertake evaluation, invigilation work, general assistance to students in removing their academic difficulties and participation in extracurricular activities and institutional support activities as required.</p> <p>In pursuance of the general interests of the college all staff shall be required to attend duties on any national and festival holidays in case, function to celebrate such occasions are organized by the college. Overall they should seek to manage professional growth continuously through study and research.</p>
CODE OF CONDUCT - NON-TEACHING STAFF	01/06/2017	<ul style="list-style-type: none"> • The basic human values are more important for every individual to respect each one in the complex world. • All the members of the staff both teaching and non-teaching must sign regularly in the attendance register which is to be maintained by the head of the institution. • The staff should remain present in the college, at least 20 min before the start of college on all working days. • All the non-teaching staff should carry out their assigned work with complete involvement and honesty. • The staff should follow the instructions from the Faculty and higher authorities. • The staff should be regular, punctual and shall stay back beyond the working hours if required to complete the official work. • The staff shall not be absent themselves from duty without prior

permission and alternative arrangement to carry out the assigned duties without any hindrance for the normal and the laboratory sessions in particular. • They should carryout additional work assigned to them as and when required. • They should maintain the college details with strict confidentiality.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
World Environment Day- Environmental Preservation and Plantation Drive	05/06/2017	05/06/2017	450
Yoga Day celebration	21/06/2017	21/06/2017	3000
Launch of E-Waste Collection and Awareness Program	27/06/2017	27/06/2017	415
Awareness program on Traffic Safety	12/07/2017	12/07/2017	300
Independence day Celebration	15/08/2017	15/08/2017	450
Teacher's Day Celebration	05/09/2017	05/09/2017	600
Engineers Day Celebrations	21/09/2017	21/09/2017	400
Guest Lecture On "Filing Of Patent And Designs"	07/09/2017	07/09/2017	300
Seminar on Human Values in Life- Gandhi Jayanthi Eve	02/10/2017	02/10/2017	400
Rally on on Dr. APJ Abdul Kalam Sirs Birthday Celebration	15/10/2017	15/10/2017	400
View File			

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

- 1.Tree Plantation drives are conducted regularly to prevent global warming
- 2.Tobacco products are strictly banned inside the campus
- 3.E-Waste Management
- 4.Rainwater Harvesting
- 5.Clean and Green Campus
- 6.Plastic free campus
- 7.Energy Conservation with the help of LED lamps

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. STUDENTS CLUBS ACTIVITIES OBJECTIVES OF THE PRACTICE The main objective of the clubs is to enhance the interest in various clubs and thereby instigating the students to participate in various clubs that allow members to gain personal and professional skills in the area of leadership development. **THE CONTEXT** For many students the work that they do within clubs and societies is the single most important feature of their college lives, providing opportunities for friendship, social development and personal growth. Clubs can be a powerful and enjoyable way to engage young people with a wide range of benefits. They can ignite a new interest in different subjects for some and provide a platform for others to extend their learning. They can give a deeper understanding, offer real-world experiences and suggest different ways to learn and engage in different subjects. Most importantly, they are fun and exciting and allow all involved to explore in imaginative and inventive ways. The various clubs which have been started are Science club, ECO and Swatch Bharath, Quiz Club, Math Club, Code Club, Robotics Club, Cyber Club , M-apps Club, Tamil Ilakiya Mandram, RD Club, Yoga Equilibrium, Fine arts Association, English Literature club, Photography Club, Yuva Club/Young Indian, Adventure Club, Poker/Humor Club, Culinary Club, Global/Higher Studies Bureau, Classics Club, Health Club, Automobile Club, Rotaract Club/lions Club, Energy Efficiency Club, Skill development Club, Disaster Management Club, Agriculture Farming, Foreign Language Club, Safety Club **THE PRACTICE** Along with emphasis on academic excellence, students are encouraged to enhance their potential in other aspects based on their passion. We have a total of 34 clubs to determine and identify the areas of interest to help the students improve on it. This helps in making the students more versatile and efficient. To name a few events conducted by the clubs, a tree plantation drive was conducted through Agriculture Farming club, an interactive session on Web development was conducted by the code club. **EVIDENCE OF SUCCESS** Each year the participation of the student in the various club events has vividly increased. It is because of the fact that the student's interest has been increased in various interested areas. increased enjoyment , increased confidence , increased knowledge and understanding , increased key employability skills, increased awareness in related careers **PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED** The collaborative schedule management on the same day for various club events is a huge challenge. As there is a huge interest among the students it is a tough task to limit the number of students participating in each club. It is also challenging to satisfy the expectation of all the students attending the club events. **2 Video classes - Emerging technology exploration OBJECTIVES OF THE PRACTICE** The objective of conducting video class is to have an insight of recent technologies and engineering advancements in the domain of Engineering and Technology . **THE CONTEXT** The videos which highlight recent technological advancements were screened. Various technical areas like Satellite Communication Space Technology, Integrated Chip (IC) Design Fabrication, AI Machine learning, IoT Big Data, Autonomous Driving and UAVs, MRI CT Scan Technology, Deep learning, Nano Technology and Robotics were screened. **THE PRACTICE** Video classes are scheduled by college and conducted by the respective department in SSR Hall and VRR Hall at Sri Leo Muthu Indoor Stadium. High definition videos with 5.1 audio systems were screened. This program motivates the students to gain more knowledge and explore more on the key domains of engineering Technology. The Video classes are organized twice in a semester for a duration of 3 hours. After every video session, an interactive session with the topic experts were conducted to clarify the doubts asked by the students and to discuss about the field of the videos. After the video classes, the students were asked to give feedback in Google sheets about the videos and discussions. **EVIDENCE OF SUCCESS** Participation in external events after gaining knowledge from recent technologies has increased. Students have learnt new skills and enhanced

learning processes in much the same way as experience is acquired during their practical training. The benefits of using videos are considered a valid tool for student education. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED The selection of domain and topics of the videos is highly difficult. As there is a huge interest among the students ,the video selection for a class is a tough task.Since the number of good quality technological videos available is limited. A committee is formed by HOD of the department to look over the selection of videos, and quality of the content. It is more challenging to satisfy the expectation of all students.

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

<https://sairam.edu.in/wp-content/uploads/2018/08/BEST-PRACTICES-2017-18-1.pdf>

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

To meet with the goals of our vision and mission, the Institution is striving hard to provide at par higher learning facilities to the students. The institution provides facilities for personality and professional development in such a way that they will either get the jobs anywhere in the world or may become entrepreneurs. Empowerment for higher learning, personal and professional development in order to meet the challenges before the society, the institution provides learning facilities such as adequate infrastructure, excellent digitized library, Internet facilities, hostel facilities, Sports , Cultural facilities, language and personality development facility etc. The Institution also provides sponsorship for participation in various national and International Competition like Hackathon, etc. Sairam Institutions represented with the highest number of shortlisted Participants from Tamil Nadu for the Grand Finale of Smart India Hackathon hosted during April 2017 with 10 Teams. Guidance is given to students to participate in the competitive exams. Faculty members are motivated and sponsored to do research and Publication in Quality Journals. The College has good Institute - Industry Linkage with Top most companies like CISCO NETWORKING ACADEMY, RED HAT ACADEMY and also bagged the "BEST INDUSTRY - LINKED COMPUTER IT ENGINEERING and ALLIED INSTITUTE (Established-Degree)" in the prestigious AICTE-CII Survey of Industry-Linked Technical Institutes 2017. The Institution bagged best ISF Award and received funds from AICTE under MODROBs. To make the students intellectually alive and socially responsible citizens of the nation, the institution not only provides quality classroom education but also provides platforms through NCC, NSS, Clubs, Research and Development cell, Training and Placement cell and other activities such as research competitions, celebration of various national , international days and industrial visits. The Squash Racket Men Team of the college won the Winner's Trophy and Gold Medal in Anna University Inter Zonal State level tournament held at SSN Engineering College during October 2017.

Provide the weblink of the institution

<https://sairam.edu.in/wp-content/uploads/2018/08/INSTITUTIONAL-DISTINCTIVENESS-2017-2018.pdf>

8.Future Plans of Actions for Next Academic Year

1. To create awareness and implementation of OBE 2. To upgrade to ISO 9001: 2015 standards 3. To increase the student strength in NCC, to apply for one more wing 4. To increase the enrolment and completion of MOOC courses by faculty and students 5. To increase the paper publication of faculty in impact factor journals 6. To apply for more patents 7. Faculty to apply for projects to government funding agencies 8. To increase the quality of students mini projects

and projects 9. NBA accreditation for ECE department.