Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**SRI SAI RAM ENGINEERING COLLEGE**
Name of the head of the Institution	**Dr. A. RAJENDRA PRASAD**
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, 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. K. MARAN**
Phone no/Alternate Phone no.	**04422512222**
Mobile no.	**8754501112**
Registered Email	**sairam@sairam.edu.in**
Alternate Email	**iqacsec@sairam.edu.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://sairam.edu.in/wp-content/uploads/2020/02/AQAR-Report.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://sairam.edu.in/wp-content/uploads/2020/12/Academic-Calendar-2019-20.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A+**	**3.37**	**2018**	**02-Nov-2018**	**02-Nov-2023**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**12-Apr-2012**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Quality Internal Audit 1	**10-Jul-2019**	**362**

	2	
Club Activities Meeting for segregation of Clubs	15-Jul-2019 1	45
ISO 1st Surveillance Audit	19-Jul-2019 1	362
IQAC meeting for Readiness of Fresh Autonomous Status & NBA (ECE Department) committee visit	14-Aug-2019 1	30
Participation in ARIIA Ranking 2020	18-Aug-2019 1	145
Mock committee visit for verification of files for Fresh Autonomous Status	24-Aug-2019 1	25
Participation in AICTE Clean & Smart Campus Award 2019	09-Sep-2019 1	4750
ISO internal Audit 1	28-Sep-2019 1	362
Awareness Program on Cancer	03-Oct-2019 1	125
S2T - School To Technology for School Students	02-Nov-2019 1	2500
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Sri Sairam Engineering College	Share Mentor Institution (Margadarshan Scheme)	AICTE	2019 365	3000000
Sri Sairam Engineering College	Pradhan Mantri Kaushal Vikas Yojana for Technical Institutes (PMKVY-TI)	AICTE	2019 365	740700
Department of Mechanical Engineering	International Conference Funding	AICTE	2019 5	500000
Department of ECE	Funded Project	DAE - BRNS	2019 1095	2448650
Department of EIE	MODROB	AICTE	2020 730	1200000

Department of EEE	MODROB	AICTE	2020 730	500000
Department of Mechanical Engineering	STTP	AICTE	2020 6	300000
Sri Sairam Engineering College	SPDC	AICTE	2020 1095	1147891
Department of ECE	International Conference Funding	AICTE	2020 3	500000

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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	[View File](#)
10. Number of IQAC meetings held during the year :	3
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?	No

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

1. Autonomous Status from September 2019

2. Participation in NIRF, ARIIA, IIC and Clean Smart Campus Award

3. National Board of Accreditation for ECE department

4. Participation in Smart India Hackathon

5. Course Content (Digital) creation by faculty

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

Plan of Action	Achivements/Outcomes
To participate in ARRIA ranking	Categorised as "Band A" institution (ranked between06-25) in category ofprivate or Self Financed College/Institutes on 18th August 2020.
To participate in clean and smart campus award	Awarded Clean and smart campus by AICTE in the year 2019
Identifying renowned persons for BoS and Academic Council	Conducted on 4th, 6th,8th,10th, 13th and 17th of June 2020 and 7th, 10th of August 2020
To improve within top 200 in NIRF	Elevated to 108th rank from 123rd rank in NIRF
Plan to introduce CSBS and AI&DS	Approval sanctioned for CSBS and AI&DS from the academic year 2020-21
Introduction of course moderators and course coordinators for all courses	Course moderators and course coordinators created for all courses
Creation of Google Classroom for students	One hundred and eleven Google Classrooms created
Creation of material repository	One hundred and thirteen repository Google Classrooms created
[View File](#)	

14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
GOVERNING BODY OF SRI SAIRAM ENGINEERING COLLEGE	30-Oct-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	10-Jan-2020
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	31-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Sri Sairam Engineering College maintains a management information

system for the support of academic and administrative activities.The pre admission process includes the registration of students online which is supported by iTech India Pvt. Limited. The preregistration process shall be done even before the results of the qualifying examination.Once the results of the qualifying exams are declared the students can updated their data and the registration becomes complete. All registered students will not get admitted in the Institution. The admission to the college is madeeither through Government Quota or through Consortium and the corresponding data will be updated online. Edumate (EAcademic process and Progressive Management System)is the module used for teaching and learning process. Attendance of students for theory and lab hours, topic covered on each hour by teachers, Class timetable, Faculty individual time table, test marks, University Examination marks, University question paper feedback, mentees allotted to each mentor, the counselling reports of mentors, Students extracurricular and cocurricular certificates and many other details of students can be traced from Edumate. Faculty publications, Certificates of National and International Conferences attended by faculty, Certificates of coursescompleted by faculty, Qualification and experience certificates and all needed information about a faculty will be maintained in Edumate. Each student and faculty will be provided with a unique user name and password for login to Edumate portal. All records related to Academic activities are maintained in paperless form andits retrieval becomes easy for the users.SAI ABRAS the library management module is used for maintaining the records of the library like issue, return and renewal of books. The search of a title, late fee for return after due date can also be found using SAI ABRAS. Easy 3.0 developed by EASY – Educational Automation Software Pvt. Ltd is the module used for maintaining finance related activities.Tuition fees, Examination fees and any other payment are done online using this. The modules

used in Training and Placement cell for student support activities are Practice PerfectCODELAB, a product from skillRack.com, AMCAT from Aspiring Minds, PEGA Certification by Talent Sprint. Practicing in these modules is provided to the students from first year onwards that helps the students for good placement with higher pay package.

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. Apart from this prescribed curriculum, the College has strategized and find out the gaps between academic syllabus and industry requirements. In this respect, the organization has strategized the various ways with the input of industry and academic experts to strengthen the curriculum and syllabi on par with the industry requirements for betterment of the student community. Advance planning of Academic activities and calendar in alignment with the University issued Calendar of Events Framing course objectives, learning outcomes and planning of teaching pedagogy at the beginning of the semester Preparation of adequate contemporary learning materials to enhance student's knowledge and skills (resources) Updated library facilities with e-journals Maintenance of course files by the faculty which consist lesson plan, notes of lesson, question bank and performance details of the students Adopting new and innovative teaching methods, which focuses more on attention and listening, learning practice through online resources like Google classroom for assignments, peer learning, group discussion, use of NPTEL lectures, case studies, projects, surveys, quiz . To understand the technologically changing environment students participate in video discussion classrooms with contemporary technological changing in global scenario and also encourage the students to take part in group discussions and make presentations about the same. The student and teacher's relationship is strengthened to increase the quality of education; the mentor constantly monitors and motivates student's academic performance, career development opportunities and sorts out their personal issues. Every mentor is assigned a maximum of 15 mentees. Institution regularly invites industry experts in specialized streams to share their views, experience and current trends with students and faculty to update and upgrade their knowledge Time table framed with provision for Value Added Programmes (VAP), seminar, video lectures, group discussions, workshops, brainstorming sessions and library hours. The Head of the department and the Principal do a periodical review of the portions covered by the staff members, effective teaching methodology and syllabus completion through formal and informal feedbacks. Systematic examination process, standard question papers, proper and prompt evaluation and dispatch of reports to parents. Question papers for the internal assessments are so designed to facilitate the assessment of the attainments of the course outcomes and also enable to attain programme outcomes Education Management System, Edumate assists and monitors the teaching learning process for betterment of students' academic and non-academic performance. Guest lectures, seminars, workshops, Industrial visits and training programmes to supplement

the curricular inputs. Faculty are encouraged to upgrade themselves through Refresher and orientation courses, QIPs, workshops, Online Courses, FDP/MDPs, Conferences, and Publications. Encouraging students to do innovative project work of national interest through Hackathon, IIC, IEDC, EDC. The students and Faculty are motivated by providing Financial assistance for attending conferences, applying for patents and also for publications. Motivating students for innovation, design thinking, research and product development and also encourage students to present papers in seminars, National and International conferences and journal publications.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Certificate course on Machine learning Tec hiques,tools and applications	Nil	24/02/2020	5	Employabil ity	Machine learning
Skill Training on Electrical Softwares	Nil	18/05/2020	3	Employabil ity Entrepre neurship	Electrical Softwares
TANNER T-SPICE Simulation for PCB DESIGN	Nil	24/02/2020	3	Employabil ity Entrepre neurship	PCB DESIGN
PLC PROGRAMMING and SCADA	Nil	30/01/2020	6	Employabil ity Entrepre neurship	PLC programing
Entreprene urship	Nil	27/05/2020	7	Employabil ity	Entreprene urship skills
Robotics and Automation	Nil	18/09/2019	90	Employabil ity Entrepre neurship	Robotics
Industrial Robotics and its applications	Nil	05/08/2019	3	Employabil ity Entrepre neurship	Robotics
Fusion 360	Nil	10/09/2019	9	Employabil ity	3D Modelling Design
HR Analytics	Nil	16/12/2019	5	Employabil ity	HR Skills
Digital Marketing	Nil	16/12/2019	5	Employabil ity	Marketing Skills
Certificate	Nil	17/02/2020	5	Employabil ity	Management Leadership

course on "Project Planning Scheduling using software app lications"					
Certificate course on "Advancement in Concrete Technology"	Nil	08/07/2019	5	Employabil ity Entrepre neurship	Design Analysis
Kaizen Robotics	Nil	05/09/2019	6	Employabil ity Entrepre neurship	Embedded C
Industrial Automation and detail Engineering	Nil	25/09/2019	3	Employabil ity	MATLAB
Orcad Pspice Editor	Nil	19/08/2019	5	Employabil ity	Electronics circuits Simulation in ORCAD
Smart Phone servicing and Troubles hooting	Nil	16/09/2019	5	Entreprene urship	Troublesho oting
VMware vSphere ICF6.5	Nil	21/01/2020	5	Employabil ity	Virtual Machines
MATLAB simulation using signal processing Tool	Nil	03/02/2020	5	Employabil ity	Simulation on Signal processing Tool
VMware	Nil	21/01/2020	5	Employabil ity	Linux
Kaizen Robotics	Nil	16/09/2019	6	Employabil ity Entrepre neurship	Embedded 'C'
Electrical Technologies	Nil	14/05/2020	3	Employabil ity Entrepre neurship	Switch Gear Design
IOT	Nil	09/08/2019	3	Employabil ity	IOT
NS2 Simulator	Nil	23/08/2019	3	Employabil ity	NS2 Simulator
Machine Learning	Nil	03/09/2019	3	Employabil ity	Machine Learning

					Machine Learning
Machine Learning	Nil	28/02/2020	3	Employability	Machine Learning
Personal Finance	Nil	16/12/2019	5	Employability	Personal Finance
Modules for fundamentals in Chemistry	Nil	08/08/2019	8	Employability	Chemistry
Social Behaviour	Nil	03/08/2019	73	Employability	Self Management
Fundamentals of measurements and data int erpretation	Nil	07/09/2019	42	Employability	Measuring skills, data ploting
Calculus-Introductory Course	Nil	08/08/2019	8	Employability	Calculus

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	PR8602-Metal Cutting & CNC Machines	20/06/2019
BE	PR8592-Welding Technology	20/06/2019
ME	Term Paper writing and seminar	23/01/2020
BTech	OBT554(OE-I) Principles of Food Preservation	20/06/2019
BE	OMF551-Product Design & Development	20/06/2019
ME	Pattern Recognition and Machine learning	23/01/2020
BE	Fundamentals of Nutrition	20/06/2019
BE	Renewable Energy Sources - ORO551	20/06/2019
BE	Air Pollution and Control Engineering - CE8005	20/06/2019
BE	Geographic Information System – GI8014	20/06/2019
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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 Engineering	20/06/2019
BE	Computer Science and Engineering	20/06/2019
BE	Electronics and Communication Engineering	20/06/2019
BE	Electronics and Electrical Engineering	20/06/2019
BE	Electronics and Instrumentation Engineering	20/06/2019
BE	Instrumentation and Control engineering	20/06/2019
BTech	Information Technology	20/06/2019
BE	Mechanical Engineering	20/06/2019
BE	Production Engineering	20/06/2019
MBA	Business Administration	20/06/2019

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

	Certificate	Diploma Course
Number of Students	1794	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
Quantity surveying Building Estimation	05/03/2020	65
Sketch Up	09/09/2019	45
Java Fundamentals	03/08/2019	130
RedHat	09/08/2019	78
CCNA	16/07/2019	23
Uipath RPA	03/05/2020	90
ADX-201 Salesforce Administrator	01/07/2019	29
IOT System Architecture Protocol	10/09/2019	40
Embedded Protocol Developer	16/09/2019	190
Smart Phone servicing and Troubleshooting	18/12/2019	65
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships

BE	Civil	18
BE	CSE	60
BE	ECE	27
BE	EEE	81
BE	EIE	32
BE	ICE	9
BE	IT	90
BE	MECHANICAL	103
BE	PRODUCTION	16
MBA	MBA	218

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

The feedback about the syllabus and its compatibility with the industry is collected from all the stakeholders. The feedback form is designed in such a way that it records the opinion of the stakeholders not only about the industry requirements, but also about the personality development of the students, entrepreneurship skill development, awareness on higher studies, Research and Development. The feedback form records the view of the stakeholders regarding the syllabus in • improving professional competencies, • satisfying industry requirements and expectations of the parents, students and recruiters • suitability of the syllabus to the current scenario in Industry, Research Development and practical applications • Satisfying the outcome based education and societal needs • Instilling ethics and discipline in the student community The feedback from alumni throws light into the preparedness of the students for the industry. The feedback from the industry personnel is also collected. There is a representation of all these stake holders in the Board of Studies, Governing Council and Department Advisory Body. The feedback and opinion is collected during the regular meetings and is included while planning for the actions to be taken to bridge the gap between the syllabus and the industry requirements. The feedback collected is analysed and discussed in Academic Council meetings and Governing council meetings. Action plan is drafted to cover up the bridge between the academic and industry requirements. The actions taken by the institution to supplement the syllabus are as follows: 1. Guest lectures, seminars, workshops, Industrial visits and training programmes to supplement the curricular inputs. 2. Specially planned and scheduled video lectures and subsequent brain storming sessions 3. Group Discussion sessions for all the students 4. Financial aid for students and faculty who are publishing in reputed indexed journals 5. Travel aid for students and faculty for attending and presenting their papers in international conferences 6.

Encouraging students to do innovative project work of national interest through participation in Hackathons and coding contests and further supported by IIC, IEDC cells in the institution. 7. Students are encouraged to pursue online courses in various MOOC platforms like NPTEL, Udemy, Coursera, NASSCOM Futureskills, ICT Academy Skilledge, Learnathon. 8. Students are trained through EDC and an awareness program is conducted every year for entrepreneurship opportunities and the incubation cell of the college supports students who are interested to set up their own start up companies

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
MBA	MBA	120	582	122
BTech	Information Technology	180	2841	166
BE	Production	30	332	22
BE	Mechanical	240	1606	217
BE	ICE	30	337	32
BE	EIE	90	511	72
BE	ECE	240	3279	195
BE	EEE	120	1686	102
BE	CSE	180	3665	163
BE	Civil	60	617	51
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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
2019	4131	269	325	37	362

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
362	362	34	65	8	253
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 enable to fill the gap between 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. In the recent Covid – 19 era, the physical counselling role of mentor moved to technology mode (online) for monitoring ward's progress both academic and unusual life conditions. 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
4400	362	1:12

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
10	10	Nill	10	4

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
2019	Dr.K.Maran	Director	Top 50 Directors or Coordinators of IQAC across India – 2019, awarded by Ulektz, Wall of Fame for the year 2019.
2019	Dr.B.Latha	Professor	Best Teacher Award from MALA(Madras Library Association)
2019	Dr.M.Nithya	Assistant Professor	Certificate of Reviewing

2019	Dr T Porselvi	Professor	"Dr APJ Abdul Kalam Young Scientist Award" for the year 2019 from Marina Labs, Research and Development Centre,Chennai on 24th November 2019
2019	Dr B Meenakshi	Professor	"Dr APJ Abdul Kalam Scientific Excellence Award-2019" from Marina Labs, Research and Development Centre,Chennai on 24th November 2019
2019	Ms Saswati Kumari Behera	Associate Professor	"Best Teaching Faculty award" from Dr.Kalam Educational Trust for Tribals at M.A.M School Of Engineering,Trichy on 15th October 2019
2019	Dr.C.Ramesh Babu Durai	Professor	Recognized for their outstanding performance in "Plant Growth Monitoring Robot Theme" -Task Based Training, conducted as a part of e-Yantra Lab Setup Initiative, ERTS Lab, Department of CSE,IIT Bombay, Mumbai
2019	PROF. R. AZHAGUMURUGAN	Associate Professor	Elected to the grade of "Senior Member" in good standing denoting a personal and professional commitment to the advancement of technology by IEEE Power Energy Society.
2019	Ms. C. Komathi	Associate Professor	Award of Recognition for publication in IEEE journal, IEEE Madras section

| 2019 | Dr.C.Priya | Assistant Professor | Received Best paper award in an International conference -Indonesia |

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	29/09/2020	05/11/2020
BE	104	VIII/IV	29/09/2020	05/11/2020
BE	105	VIII/IV	29/09/2020	05/11/2020
BE	106	VIII/IV	29/09/2020	05/11/2020
BE	107	VIII/IV	29/09/2020	05/11/2020
BE	112	VIII/IV	29/09/2020	05/11/2020
BE	114	VIII/IV	29/09/2020	05/11/2020
BE	120	VIII/IV	29/09/2020	05/11/2020
BTech	205	VIII/IV	29/09/2020	05/11/2020
MBA	631	III/II	29/11/2019	29/01/2020

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 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

Controller of the Exam (COE) 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. Subject teacher can also conduct various academic activities like surprise test, objective type test (MCQ), Technical quiz etc.. for assessing the students .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 End Semester 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/wp-content/uploads/2020/01/PO.pdf
https://sairam.edu.in/wp-content/uploads/2020/01/PSO.pdf
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
631	MBA	MBA	109	109	100
205	BTech	INFORMATION TECHNOLOGY	106	106	100
120	BE	PRODUCTION	38	38	100
114	BE	MECHANICAL	200	200	100
112	BE	ICE	38	38	100
107	BE	EIE	79	79	100
106	BE	ECE	194	194	100
105	BE	EEE	86	86	100
104	BE	CSE	153	153	100
103	BE	CIVIL	82	82	100
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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/NAAC-Student-Satisfaction-Survey-2019-20.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
Interdisciplinary Projects	180	MIT SQUARE SERVICES PRIVATE LIMITED	0.3	0.3
Interdisciplinary Projects	360	Trend Automation	0.75	0.75
Industry sponsored Projects	180	One Yes TechnologiesOne Yes Technologies	1.69	1.69
Industry sponsored Projects	180	Aazhivion Technologies India Pvt.Ltd.,	3.45	3.45
Minor Projects	365	ANANDAM WORLD CITY GOLD BRICKS INFRASTRUCTURE PVT LTD	1.25	1.25
Minor	365	SETHU	1.65	1.65

Projects		BHASKARA MATRICULATION HIGHER SECONDARY SCHOOL		
Major Projects	1095	SC/ST SKILL DEVELOPMENT PROGRAMME	11.48	7.5
Major Projects	1095	BRNS,DAE, NEW DELHI	24.49	12.08
Major Projects	1095	Margadarshan AICTE	30	15
Major Projects	180	DST	33.69	20.1
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Seminar on Road map for Patent creation	CSE	06/06/2019
Workshop on Patent drafting and filing procedure	CIVIL	01/07/2019
Session on Reverse Engineering and Patenting	MECH	18/07/2019
workshop on Industrial Product Design and Development - An approach at design patent	PROD	27/08/2019
Seminar on Importance and Scope of IPR in academic researchers	IT	05/09/2019
Seminar on Identifying Intellectual Property Components at the early stage of Innovation	EI	03/10/2019
Workshop on IPR and Patent practices in India - Research Innovation in Patents	SEC-IIC	24/10/2020
FDP on Innovation and IP Management	EEE	02/11/2019
Seminar on Research and Innovations in defense sectors	SH-CHEMISTRY	06/01/2020
International Seminar on Project based learning and patenting	ECE	20/02/2020

Expert talk on Intellectual Property awareness and culture at Educational Institure	ICE	02/03/2020	
Webinar on Patent Drafting and Filing procedure	SEC-IIC	16/05/2020	
One day workshop in IPR and innovation	Research and Development	27/07/2019	

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
Best Research Paper Award	Ms. B.Priya	SEEE- Society for Engineering Education Enrichment (SEEE)	06/03/2020	Best Research Paper Award
Engineering Excellence Award for Women	Dr. A. Meena Kabilan	SEEE- Society for Engineering Education Enrichment (SEEE)	01/03/2020	Engineering Excellence Award for Women
Young Researcher Award	Mr.R.Premkumar	Institute of Scholars.	06/09/2020	Young Researcher Award
Best ISF Coordinator	Dr S sumathi	IETE Chennai Centre	21/09/2019	Best ISF Coordinator
Gsm based Vehicle Emission Monitoring System	A.Anuja	IEI TamilNadu Centenary Technical Conference on Disruptive Technology and ts Applications, Chennai.	14/09/2019	Gsm based Vehicle Emission Monitoring System
ENERGY AUDIT IN HOUSEHOLDS	Gokulakrishnan, Parthasarathy, Sundaraganapathy and Anirudh	IBM India,BENGALURU	30/08/2019	ENERGY AUDIT IN HOUSEHOLDS
SCIENTIFIC EXCELLENCE	Dr.K.VENKATARAMAN	MARINA LABS	24/11/2019	SCIENTIFIC EXCELLENCE
Research in anti-cancer studies	Dr G PUTHILIBAI	Dr.Kalam Educational Trust for Tribals	15/10/2019	Research in anti-cancer studies
Award of Recognition for publication in IEEE journal	Ms. C. Komathi	IEEE Madras section	03/11/2019	Award of Recognition for publication in IEEE journal
Regenerative	I.Jebin	Autotech	27/11/2019	Regenerative

Air Powered Micro Mobilityskills	Joshua, Final Year	Review at Nugen Mobility Summit 2019, Manesar, Haryana		Air Powered Micro Mobilityskills

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Sri Sairam Techno Incubator Foundation	Dr.K.Renga nathan, Dr.N .Vasudevan	partners	Bhoomi Pooja	A low cost construction using pre-fabricated structure	01/08/2019
Sri Sairam Techno Incubator Foundation	Dr.Swagatha SarkarLeadz	partners	Vision Leadz	Drone and Emerging trends services	10/09/2019
Sri Sairam Techno Incubator Foundation	Dr.M.Nalini	partners	Spice Mirchi	Food processing	19/11/2019
Sri Sairam Techno Incubator Foundation	Ms.Pamila, Mr.Jayshanka r Vishal	partners	Envitech	Pollution control	03/12/2019
Sri Sairam Techno Incubator Foundation	Dr.J.Raja	partners	Medscan	Image processing	06/01/2020
Sri Sairam Techno Incubator Foundation	Dr.K.Maran	partners	Trade Day	Market Research	04/02/2020
Sri Sairam Techno Incubator Foundation	Mr. Balaji and Dr. T. Sheela	partners	SOFTRETE	Software	16/03/2020
Sri Sairam Techno Incubator Foundation	Ms. Thanuja	partners	Sandal Sanitizer	Sanitation	14/05/2020
Sri Sairam Techno Incubator Foundation	Mr. Ram Diwakar	partners	Portfurni	Home Appliances	16/08/2019
Sri Sairam Techno Incubator Foundation	Mr. S. Balaji	partners	Ice cubes	PCM Assisted Appliances	06/11/2019

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
217	**13**	**8**

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	**5**
IT	**3**
MBA	**10**
MECH	**5**

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	**CIVIL**	**15**	**0.84**
International	**CSE**	**110**	**3.46**
International	**EI**	**52**	**2.34**
International	**ECE**	**104**	**3.64**
International	**EEE**	**55**	**2.66**
International	**IT**	**104**	**1.24**
International	**MBA**	**87**	**2.84**
International	**MECH**	**136**	**2.08**
International	**SH**	**37**	**0.63**
International	**ICE**	**33**	**0.54**
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
CIVIL	**1**
CSE	**104**
EI	**15**
ECE	**16**
EEE	**7**
ICE	**3**
IT	**41**
MBA	**19**
MECH	**8**
PROD	**5**
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the	Name of	Title of journal	Year of	Citation Index	Institutional	Number of

Paper	Author		publication		affiliation as mentioned in the publication	citations excluding self citation
Safety and hazard analysis for chemical process modeled by timed petrinets	Dr.K.Ren ganathan	International Journal of Research and Analytical reviews	2019	5	Sri Sairam Eng ineering College	2
Performance Analysis: Preprocessing of Respiratory Lung Sounds	Dr.E.Priya	Springer Nature Singapore Pte Ltd. 2019	2019	5	Sri Sairam Eng ineering College	Nill
Emerging Trend in Inter-Train Communication System	Dr.J.Aru narasi	Test Engineering and Management	2020	2	Sri Sairam Eng ineering College	Nill
Block based data security and data distribution on multi cloud environment	Dr. T. Sheela	Journal of Ambient Intelligence and Humanized Computing	2019	5	Sri Sairam Eng ineering College	3
An investigation on mechanical behaviour of nylon 6 -polycarbonate hybrid composite	Dr. B. Vijaya Ramnath	International Journal of Mechanical and Production Engineering Research and Development	2019	19	Sri Sairam Eng ineering College	2
Band structure calculation and rietveld refinement of nanoscale GdFeO3 with affirmation of Jahn Tellers	Dr. G. Sathish Kumar	Journal of Alloys and Compounds	2019	8	Sri Sairam Eng ineering College	2

Title	Author	Journal	Year		Institution	
distortion on electric and magnetic properties						
Optimization of CO2 Laser Cutting Parameters on Austenite Stainless Steel Using Grey Relational Analysis	Mr. S. Siva Chandran	International Journal of Mechanical Engineering Technology (IJMET)	2019	4	Sri Sairam Engineering College	9
An enhanced secure content de-duplication identification and prevention (ESCDIP) algorithm in cloud environment	J. K. Periasamy,B. Latha	Neural Computing and Applications	2020	3	Sri Sairam Engineering College	3
Solar PV fed super-lift LUO converter and modified sepic converter for LED drivers	Dr.T.Porselvi	Test Engineering and Management	2019	1	Sri Sairam Engineering College	Nill
Characteristic Investigation on Di Diesel Engine With Nanoparticles as an Additive in Biodiesel	P V Inbanaathan	SAE Technical Papers	2019	1	Sri Sairam Engineering College	4
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Effect of Deep Cryogenic Treatment on the Dimensional Stability of Aisi 440c Bearing Steel	Dr. B. Vijaya Ramnath	Indian Journal of Science and Technology	2019	19	2	Sri Sairam Engineering College
Flexural, impact and tensile properties of banana /PLA composite	Mr. M. C. Anand Chakaravarthi	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	1	1	Sri Sairam Engineering College
Optimization and sensitivity analysis of drilling parameters for-sustainable machining of carbon Fiber -reinforced polypropylene composites	Dr. Latha, B	Journal of Thermoplastic Composite Materials	2019	15	6	Sri Sairam Engineering College
Towards optimal resource provisioning for Hadoop-MapReduce jobs using scale-out strategy and its performance analysis in private cloud environment	Ramanathan R Latha B	Cluster Computing	2019	15	21	Sri Sairam Engineering College

Staked T lines Integrated Circular Microstrip Tri-band Wearable antenna for GSM, ISM and NATO applications.	Dr.A.Henridas	International Journal of Innovative Technology and Exploring Engineering	2020	4	16	Sri Sairam Engineering College
Predictive delimiter for multiple sensitive attribute publishing	Dr. T. Sheela	Cluster Computing	2019	6	7	Sri Sairam Engineering College
A Survey on Cloud Security Issues and Blockchain	Dr.Soma Prathibha	2019 Proceedings of the 3rd International Conference on Computing and Communications Technologies, ICCCT 2019	2019	6	6	Sri Sairam Engineering College
Mechanical Behaviour of Aluminium Hybrid Metal Matrix Composites – A Review	Mr. S. Ravindran	Materials Today: Proceedings	2020	2	5	Sri Sairam Engineering College
Design of Grey Wolf Optimizer Algorithm based Fractional Order PI Controller for Power Factor Correction in SMPS Ap	Dr. C.Komathi	IEEE Transactions on Power Electronics	2019	2	2	Sri Sairam Engineering College

plications							
Soil Productivity and Fertility Using Neuro-Fuzzy Logic Inference	Dr.K.Renganathan	International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)	2019	4	Nill	Sri Sairam Engineering College

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	18	178	60	36
Presented papers	131	45	Nill	Nill
Resource persons	6	18	32	12

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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Annual Geneva Celebration at Indian Red Cross Soceity	YRC/RRC	1	6
Swachhta bakhwada A Seminar on Plastic Waste Management	Cadets and ANO	2	35
Workshop on "First aid awareness"	YRC and Red Ribbon club	4	200
Soroban and Mental Maths National Competition	YRC and Red Ribbon club	1	10
Athivarathar Food Distribution	NSS, Sri sairam engineering college	2	50
Grit Xemplers – 2.0	NSS , Sri Sairam Engineering College	2	120
Best NSS Volunteer Award	Anna University ,Chennai	1	50

Function			
Sai To Tech	Sri Sairam Engineering College	2	150
Ullas School Students Training	Ullas Trust and NSS ,Sri Sairam Engineering College	1	60
Blood Donation Camp	NSS, NCC, YRC of Sri Sairam Engineering Colleg	4	120
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Swatchh Bharat	Certificate of excellence	Swatchh Bharat Sri Sairam Engineering college	1
IBM Hack Challenge 2019	Special Jury Award	IBM	4
Guard of Honor to Prime minister	All over India only 30 Air wing Cadet selected	AIR CHIEF MARSHAL, NAVY CHIEF, DEFENCE MINSTER OF INDIA DELHI CHIEF MINISTER	1
Project titled "Regenerative Air Powered Micro Mobility"	Most Popular Innovation Award	Autotech Review at Nugen Mobility Summit 2019, Manesar, Haryana	1
Best Teaching Award Clean India Green India Awareness rally	Best Teaching Award in Engineering	Staffordshire university,UK Education Matters	250
Best Senior Social Scientist	International Academic Excellence Award	EAST- Environmental Advisory for sustainable Trust	60
Masilamani Award	Best Governed Institution Award	Anuragam- Kalaignaan Pathipagam	60
Distinguished Educator Scholar Award	National Teachers' Day Award	National Foundation for Entrepreneurship Development (NFED)	60
Dewang Mehta- National Education Award	Education Leadership Award	Dewang Mehta	60
Smart India Hackathon'19	First prize with a cash reward of Rs 75,000	MHRD,IIC	6

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Clubs	Energy Efficiency Club and EnSav	Energy awareness workshop	2	180
Clubs	Young Indians Club	E-Waste Awarness Camp	3	250
Clubs	Cyber Club	Cyber club awarness week	6	600
NSS	NSS ,Sri Sairam Engineering College	Tree Plantation	1	64
NSS	NSS ,Sri Sairam Engineering College	Rally on women Safety	2	100
NSS	NSS ,Sri Sairam Engineering College , World Record Silambam Club	Silambam Practice	2	100
NSS	NSS ,Sri Sairam Engineering College, Aravind Eye Hospital and SairamSiddha and Homepathy	Medical Camp	2	100
NSS	Rakshin NGO and Sri Sairam Engineering College	The Rakshin Volunteer - POSCO 2012 Act	4	150
NSS	NSS ,Sri Sairam Engineering College	National Integration Day Pledge	8	400
Clubs	Womens Forum	Sensitisation towards gender equality	15	1000

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 -Universiti Teknologi PERTONAS,Malaysia	RICHARD FAUSTINO	Management contribution	7
Student Exchange programme -Universiti Teknologi PERTONAS,Malaysia	SUSHIL KUMAR	Management contribution	7
Research	Saisri.G,Nivetha R,Shravanthi bhoopathy,Sowmiya p	National Institute of Ocean Technology,CHENNAI	210
Research	HARIHARAN R	North Chennai Thermal Power Station	90
Research	Akash Louies M	Oil and Natural Gas corporation Ramnad	15
Research	Shubham Suryawanshi	ZOHO	210
Research	BHARATHIMANICKAM S	Ashok Leyland	90
Research	HEMANANTH B	Brakes India	90
Research	U.Ashwin Krishna	Tamilnadu Co-Operative Milk Producers Federation Ltd	50
Research	J.Ananda Padman	HOIST INDUSTRIES	45

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Project work	DESIGN, DEVELOPMENT CONCURRENCY MANAGEMENT OF TRAINING INFORMATION SYSTEMS	RAMCO SYSTEMS PVT LTD	29/01/2020	31/05/2020	DEEPAK ARUN S
Project work	Develop a website for ICAR - Krishi Vigyan Kendra	ICAR - Krishi Vigyan Kemdra	07/08/2019	11/08/2019	N. Deepcharan, E. Vasanth Kumar, B. Vijay bnalaji, S.

					Y. Dinesh
Project work	A STUDY ON STATUTORY COMPLIANCE	HR DEPARTMENT FOR PROCONNECT SUPPLY CHAIN SOLUTIONS LTD	29/01/2020	31/05/2020	ABHINAYAA.S
Project work	Design and development of high accuracy capacitive sensor and low power embedded system for bearing strength measurement	National Institute of Ocean Technology,Velachery-Tambaram Road, Pallikaranai, Chennai, India-600 100.	10/12/2019	10/03/2020	Ms. R. Nivetha, Ms. G. Saisri, Ms. Bhoopathy Shravanthi and Ms. P. Sowmiya
On the job training	Training – Ethical Hacking	Internshala Training	30/05/2019	11/07/2019	Shakthi Sree
On the job training	Civil Works	MRH Tech Engineers Pvt. Ltd	21/11/2019	09/12/2019	B. Banuchandar
Internship	Training in Electrical Department	NLC INDIA LTD.	19/02/2020	10/03/2020	K.SANTHIYA
Internship	SOFTWARE DEVELOPMENT	Webnexs	17/02/2019	17/03/2019	Akash A
Internship	COMMERCIAL VEHICLE AGGREGATES	ASHOK LEYLAND	16/12/2019	03/01/2020	PRAVEEN S S
Internship	Construction of roads and bridges	TN Govt. Highways Department	28/11/2019	08/12/2019	P.Naveena

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
LEMA LABS	11/02/2020	Workshop	228
Vectra Thechnosoft Private Ltd	05/07/2019	Workshop	128
Zenmaq Automation Pvt Ltd,Choolaimedu ,Chennai-600094.	25/09/2019	Value Added	89

CDCE HP Automation Robotics ,Avadi,Chennai-600054	18/02/2020	Setting up of automation lab, consultancy work	60
MIT SQUARE SERVICES PRIVATE LIMITED	12/03/2020	Internship and patent	200
Me H Progressive Skill Pvt. Ltd	11/07/2019	Projects	250
Value Labs	28/02/2020	Workshop and Internship	25
VOICESNAP SERVICE PVT. LTD.	30/01/2020	Workshop and Internship	200
ENSOLT	09/11/2019	Projects	87
Imarticus Learning Pvt. Ltd	08/12/2019	Workshops, Internships	200
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
460	458.41

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Newly Added
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SAIABRAS	Fully	3.0	2002

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	65993	18984000	2245	1300000	68238	20284000
Reference Books	4500	1670000	55	77000	4555	1747000
e-Books	6800	Nill	Nill	68000	6800	68000
Journals	157	Nill	Nill	273000	157	273000
e-Journals	2	Nill	Nill	864000	2	864000
Digital Database	1	Nill	Nill	14000	1	14000
CD & Video	95	28000	Nill	Nill	95	28000
Weeding (hard & soft)	386	181000	6	1300	392	182300
Others(specify)	5831	Nill	358	Nill	6189	Nill

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.T.P.Rani	Computer Networks-OSI Model	SSEC INTRANET/YOUTUBE	04/03/2020
Dr.T.P.Rani	Computer Networks-Transmission Media	SSEC INTRANET/YOUTUBE	09/04/2020
G.Sudha	Adhoc and Sensor Networks	MOODLE	08/01/2020
S.Usha	Digital Electronics	SSEC INTRANET/YOUTUBE	12/08/2020
S.Usha	Digital Electronics	SSEC INTRANET/YOUTUBE	15/04/2020
Dr M.Suresh Anand	Object Oriented Programming	SSEC INTRANET/YOUTUBEjune-20	16/07/2020
N. Gopinath	Human Computer Interaction-Introduction to HCI	SSEC INTRANET/YOUTUBE	10/06/2020
DR.T.PORSELVI	VARIABLE FREQUENCY DRIVE	SSEC INTRANET/YOUTUBE	04/03/2020
Dr. K. Maran	Strategic Management	SSEC INTRANET	17/07/2019
Mr.R. Premkumar	Nodal Analysis	SSEC INTRANET	05/02/2020

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	1550	25	1550	1	1	30	9	155	10
Added	20	0	20	0	0	0	0	0	0
Total	1570	25	1570	1	1	30	9	155	10

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 FACILITY	https://sairam.edu.in/e-content-facility

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
381	380.11	631	630.83

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. A van is kept ready throughout the day for emergency hospital visit. Banking facility with an ATM center, Stationery store and photo copying center are available within the Campus.The college encourages sports activities and gives importance for students to pursue excellence in sports. The college has all necessary infrastructure for growing talents and developing sports personalities. The sports infrastructure comprises facilities for indoor and

> outdoor games. There are well groomed outdoor play fields for Cricket, Football, Basketball, Volleyball, Athletics etc.

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, Matram and Anandham	222	10746000
Financial Support from Other Sources			
a) National	Government and Non- government schemes	1814	41590235
b)International	IEEE Richard E Merwin, Google Scholarship	3	153232
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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
Coding Skills	21/06/2019	4077	Skill Rack- Pee Cee Castle Software services Ltd., Door No. 9/2, 15th Ward, Five Falls Road, Ilanji, Tenkasi- 627805
Employability Enhancement Skill	19/06/2019	2998	Aspiring Minds Assessments Private Limited, Gurugram, Haryana
Mentoring	19/08/2019	4077	Individual Faculty-in-charge, HOD, Class Coordinators, Mentors
Yoga and Meditation	19/07/2019	1370	1.SKY Trust, 2.H.H Shri Mataji Nirmala Devi Yoga Trust, 3.Isha Yoga Centre, 4.Vaazhga Valamudan
Bridge courses	21/08/2019	1069	Faculty of Science and Humanities

Language lab	24/06/2020	1037	Faculty of English and Professional Trainers
Remedial coaching	14/08/2019	1429	Staff handling the subject
Personal Counselling	07/08/2019	948	1.Dr.Kannan Gireesh, 2.Dr. K. Maran, 3.Dr. V Hemanth Kumar, 4.Dr.B VENKATESWARA PRASAD
Soft skill development	11/07/2019	4077	1.Focus Academy for Career Enhancement 2. ETHNUS 3. PeeCee Castle Software Services Pvt. Ltd.,4. Itech 5. BYTS – Hyderabad 6.Aspiring Minds Assessments Private Limited 7..Six Phrase 8..Pega - Talent Sprint

[View File](#)

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2020	GRE	66	1657	20	52
2020	GATE	75	1478	26	46
2020	UPSC	42	1321	1	23

[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
11	11	6

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed

TCS (Ninja)	652	175	Nill	Nill	Nill

View File

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	3	B.E	EIE	Hochschule Bremen	MS-Electronics Engg
2020	1	B.E	ECE	Massey University/ University of Newzealand	Master of Engineering studies Electronics and Computer Engineering
2020	1	B.E	ECE	Mudra Institute of Communications, Ahmedabad (MICA)	PG Diploma
2020	1	B.E	EEE	University of Adelaide	Master Programme
2020	1	B.E	EEE	Arizona State University	Master of Engineering
2019	1	B.E	CSE	UT Arlington	MS
2019	1	B.E	MECH	Chalmers University of Technology	M.S. in Mechanical Engineering
2019	1	B.Tech	IT	National Institute of Fashion Technology	Masters in Fashion Technology
2019	1	B.E	CIVIL	USC University of Southern California.	M.S
2019	1	B.E	PRODUCTION	Nanyang Technological University, Singapore	M S in Manufacturing systems & Engineering

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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	26
CAT	1
GRE	20
TOFEL	17
Any Other	35

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

Activity	Level	Number of Participants
Founders Trophy(Staff) 35	State	80
Sairam Trophy (School Students) 35	State	1250
Basketball (Men)-Interzonal 35	National	228
Football(Men) 35	National	216
Badminton(Women) 35	State	66
Badminton(Men) 35	State	96
Chess (Women) 35	National	60
Chess (Men) 35	National	90
Karate(Kick Boxing) 35	International	700

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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
2019	Student Leader of the year -PALS	National	Nill	1	E7EC004	T S Srisruthi
2020	2 st Prize in English Block & Tackle	National	Nill	1	E6 ME 022	PREM VINAYAK
2020	Silver	International	2	Nill	SEC19EC029, SEC19IT133	Raja Navis Sajitha, R.Arjun Srinivas
2020	Gold	International	2	Nill	SEC19CS052, SEC19CS112	R.Suvarna Prabha,G.Subramaniam
2019	Bronze	National	5	Nill	SEC19EI0	Sri

						30, SEC19E E094, SEC1 9EE037, E7EC039, SEC19CS008	Haripriya, T.Janani, Sandra Antony, M. Madhumitha , S.R.Ridu varshini
2020	Silver	National	8	Nill		SEC19ME0 65, SEC19M E170, E7EE020, E6CE064, E7CE087, S EC19IT064, E8EI018, E8EE076	Pathini Nimesh, C. Muthuprave en, R.Yath indrakumar , Mohan Aravind, N .Sabaresh, Johnjestin N, Dennis Joel Raj, Harish Srivatson J.K
2020	1 st Prize in Tamil Oratorical	National	Nill	1		E6ME012	RAM DHIWAKAR S
2019	First Runner up- Kalam Book Summary Writing Contest -ICT Academy	National	Nill	1		E7EC004	T S Srisruthi
2020	Largest Bharatanat yam Dance	National	Nill	1		SEC19EC077	Reshmaja K. Ramesh
				View File			

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

Every academic 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 hackathon, technology based competition, 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, startups 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:

520

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

870150

5.4.4 – Meetings/activities organized by Alumni Association :

Report of 20th Alumni meet - 2019-20: 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 2020 was conducted on 18th July 2020 through Online Zoom meet due to the pandemic situation there was a delay in organizing the meet and considering the government rules it was conducted on a virtual platform. In this meet, the huge lot of Alumnus of Sairam Institutions happily participated, shared and cherished their golden, evergreen college day moments. The Alumni President delivered the welcome address to the virtually gathered Alumni. One of our distinguished Alumni Mr. S.K.Ravindran, Etilsalet, UAE honoured the function with his virtual presence and thought provoking speech that instilled the zeal in the gathered minds. He also shared his experience and thanked the college management. There were around 520 alumni enrolled and 240 have participated in the meet. In this Alumni Meet, the Chief Executive Officer of Sairam Group of

Institutions Shri. Sai Prakash Leo Muthu, Principal Prof. A.Rajendra Prasad, Director of Management Studies, Dr.K.Maran, Dean – Networking Prof. T.Sheela, Heads of the departments and faculty members too graced the programme. In this meet, the huge lot of Alumnus of Sairam Institutions happily participated, shared and cherished their golden, evergreen college day moments. The alumni meet concluded with the proposed activities for the forthcoming academic year. The activities include financial help to the students in need, infrastructure development, academic guidance, internship facilities and technical support. The alumni also were interested to support the students for their online internships, to sponsor for the online courses, placement support through career enrichment activities. They were also keen to help students with entrepreneur interest by conducting entrepreneurship awareness camps.

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)

1. We have established a very good practice of participatory management, as a rule, and we follow a decentralized procedure. All the activities in our college are organized by various departments forming many teams, consisting of faculty and non-teaching staff members. 2. We conduct frequent meetings, at least once in a fortnight, among various committees formed and the deliberations of these meetings are shared to all 'stakeholders' of the college. Our top management level, consisting of our Principal, Deans, Head of departments, student club coordinators and other faculty members interact in order to implement best practices for students betterment. We submit here, some samples, about our college activities on Placement and Hackathon activities . The TAP cell is keen in exploring the industrial trend and their expectations from fresh engineering students. All the freshers should be "billable" from day one of their joining the company they get selected into.In every course the faculties are encouraged to conduct Quiz program to enhance students analytical skills and group discussions empower our students for placement and personal life qualities. The training and placement cell introduced many novel training programs from second semester onwards .All activities of the TAP cell are digitalized and we have an exclusive placement portal and exclusive placement coordinators from each department. Every student has been given a user ID and a password to login to the platform and learn and get all communication immediately. TAP cell has introduced "Skill Rack", an exclusive learning platform for all students. They learn, practice and gain points . based on which they are classified as bronze, silver and gold. TAP has a systematic online assessment for all students by "AMCAT", through a series of test with a duration of 2 or 3 hours every year through an exclusive online platform by "Aspiring Minds". The improvement of each student is monitored by mentors and placement facilitators, and the students advised accordingly. A special novel program called "PEGA" certification is introduced by the TAP cell. Up to 100 students are identified after screening test and are permitted to join 'PEGA' certification program. This is completely handled by "Talent Sprint", a vendor who is authorized by PEGA-USA. The students completing the PEGA certification will have exclusive chance to participate in campus hiring done by 20 plus companies using PEGA software with a high compensation. TAP cell has also introduced a special training in C, C, Java for deserving students, with a maximum of 500 students. This is a 6 months program and its feedback is reflected through the campus placement result. The name of the program is "BYTS", done by a third-party vendor from Hyderabad. We are the only college in Chennai, doing this program. Also, TAP cell has signed a MOU with 'Virtusa" to establish a 'Centre of Excellence in JAVA Full Stack. To promote innovation out-of-the-box thinking in young minds, especially engineering students from across

| | India ,Intercollege event coding competition -Hackathons have been conducted regularly. |

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	We had planned to continue our curriculum, as per the norms by adopting the existing regulations (2017), suggested by Anna University, Chennai for the academic year during 2019-2020 in a systematic manner.We constantly updated information from the industry as per the changes in the industry scenario to enrich our curriculum in terms of providing certification courses along with the industries to enhance students domain knowledge in the present scenario .In addition to that we encouraged students to learn through online courses like NPTEL,Swayam,Coursera,EDX,CCNA,PEGA etc. For curriculum development(certification courses), the Board of Studies is constituted by the Chairman accompanied with Industry and academic experts to fill the Gap of present curriculum and industrial requirements.
Teaching and Learning	In the academic year 2019-2020, we had planned for a regular academic activity beginning from June 2019 onwards. Regular academic committees and department committee members were formed, and a regular syllabus was followed based on the 2017 regulations of the Anna University, Chennai. Various online courses namely NPTEL,Swayam,Coursera etc were offered to both students and faculty to update their skills.The teaching-learning process was set into motion and regular assessment tests and model examinations were conducted and the odd semester exams were conducted in a normal mode, and the even semester was conducted through online mode due to the pandemic Covid-19.Besides the classroom activity, we organized industrial visits, guest lectures, seminars and workshops,international and national conference , faculty development programs to be attended by the faculty

	to update and upgrade their knowledge,project and consultancy to be undertaken by the faculty, patent publications to be filed by both the faculty and the students. During September 2019, we received an "Autonomous Institution" status sanction order from the UGC, New Delhi, with effect from the academic year 2019-2020. However, since we were in the middle of an academic year, we decided to proceed with the autonomous status from the next academic year onwards. During the middle of the even semester, during March 2020, the Covid-19 pandemic struck all over the world, and it resulted in suspension of classroom activities. Immediately, with the help of technology, we changed our strategy according to the new developments, and our faculty switched over to teaching-learning by the online mode and completed their syllabus in due course of time by making use of repository in Google Classroom. The examinations were held in the online mode for the even semester for all the students of our college.There is an identified need of innovative learning and teaching methods to improve students' entrepreneurship competencies in order to make connections between engineering and real society.This problem is addressed by innovative student projects and converting project to product leading to the attainment of Entreprenurship goals. Learning with the Reverse Engineering technique make our students perform better in aproblem based exam compared to those who solely practiced by repetition. Taken together, assignments such as Reverse Engineering can easily be incorporated into any course to help students improve their problem solving skills.
Examination and Evaluation	A centralized examination cell is in operation effectively. The performance of the students is keenly monitored in Assessment tests,Model examination and University Examination.Their performance is evaluated through the internal and external mode of examination. The internal examinations are evaluated through appearing in assessment tests, participation in tutorials, assignment, debates, quizzes, presentations, case studies, projects, laboratory works and viva

	voce.The final examination is conducted by the affiliating University, and evaluations methods followed by the University norms. For the final year students,weregularly assess the progress of students project work at various stages and final project viva-voce conducted by the concerned authority external examiners. We assess the internship and in-plant training also, as a part of the curriculum.The internship and in-plant training experience of a student , the faculty team will evaluate every class set of students industry exposure which enables to motivate other students to gain different industry exposures.Regarding internal marks awading method,we take the best two performances out of three, into account for awarding internal marks. In the external examination, a student has to obtain a minimum of 50 marks in each subject and thereafter grades are awarded by the Anna University depending on the students' performance in the written examination. Question paper is set by the subject experts from the Anna University, Chennai. Evaluation of answer scripts is done by a central valuation scheme arranged by Anna University, Chennai at a suitable location. For carrying out the paper evaluation, a Key for the questions asked is prepared by the expert who has set the question paper and is distributed to the examiners for the awarding of marks to the right answers. Grades are then awarded based on the marks obtained.
Research and Development	Our research and development activities can be broadly classified into, several categories like faculty , Faculty and student collaborative, industry-institution collaborative research work with various Government and Non- Government funding agencies to enhance the society development.During this academic year 2019-2020, We obtained several sanctioned funded projects from Government agencies like DST,TNSCST,SERB etc and also from various industries (projects and consultancy services) in Mechanical,Software, Electronics,Electrical and Instrumentation domains.We encourage our Faculty and Students to focus on

	more innovation and technology development through MHRD Institutions Innovation Council(IIC) ,IEDC and EDC to bring out technology oriented product,services and to facilitate obtained patents. Needless to say, that our students were not only innovative, but also hard working in terms of presenting group work as well as individual work in the form of innovative research Projects which were displayed to one and all during the Project Exhibition 2020.The projects were scrutinized by judges who came from outside our institution and those projects which were selected in the top categories were encouraged to proceed for patenting their work for which our management is helpful enough to fund the costs involved, for patenting their work. The new strategy in this academic year was to develop entrepreneurship skill and encourage to start-up in the campus to generate employment opportunities and economic sustainabilities. This idea of becoming an employer rather than job-seeker was encouraged among the students and sufficient training on this were given to the students to equip themselves to become a successful entrepreneur. International collaborative research is engaged in this campus ,our faculty initiating collaborative research with Foreign University faculty in order to enhance quality of research papers.
Library, ICT and Physical Infrastructure / Instrumentation	A library is the heart of an academic institution. Our institution encourages all students and staff members to make the best use of the library that has been carefully built up since the inception of the college. The library is housed in a spacious area of 7750 sq.m., fully computerized and air-conditioned with Reference Section, Magazine Section, Stack Area and Digital Library. Presently 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. Our library follows the open access system and is encouraging students to browse in the stack area. The library subscribes more than 150 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. NPTEL (National Programme on Technology Enhanced Learning) is an initiative taken by the Indian Institute of Technologies of India(IIT)and the Indian Institute of Science (IISc) for creating course content in engineering and science. NPTEL is one of the largest online repositories of engineering course material and one of the most successful multi-institutional projects in the country. The Nptel Local Chapter of our college was started in the year 2017. So far we have appeared for five semesters through NPTEL local Chapter. Based on the performance in the online exam by our college faculty members we got BEST Faculty Performance certificate for Jan-Apr 2019 semester Based on the performance in the online final exam our college local chapter got "A" ranking in the Jan-June 2019 semester In July- Dec 2019 semester our college local chapter ranked as "AA" The implementation of ICT ensures only further progress. It allows students to monitor and manage their own learning, think critically and solve simulated real world problems. It enhances to work collaboratively and adopt a global perspective towards issues and ideas apart from optimizing the delivery of information. Online digital repositories are used. Online courses are recommended. Enhancing the infrastructure facilities , an ambience for advanced learning is always there in the strategic agenda.
Human Resource Management	Our college human resource management has adopted a new strategy in this year 2019-2020, by encouraging students to develop entrepreneurship skills, instead of seeking employment, and to train the students to open up new start-ups for those who graduate from our institution. We also encourage students to go for campus placement jobs and we guide the students to go abroad for higher studies as well. This centre constantly encourages our students and faculty members to involve in research and development activities, presenting papers in national and international

	conferences,text-book, chapter contribution,innovation, start-up, patent publications etc. We religiously organize workshop,refresher and orientation courses, FDP/MDP/QIP for faculty quality enhancement in teaching-learning process.Our non-teaching staff are also encouraged to undergo updation of their skill sets so that they are well equipped to guide the students in their labs and for their own betterment.Various training programs are organized for non-teaching staffs for improving their technical skills and mental well-being. Consultancy work by faculty ,paper publications, text-books or chapters in text-books publications ,are also encouraged to a large extent in our college.
Industry Interaction / Collaboration	Our institute colloborated with various industries and international institutes like the TCS, WIPRO, Infosys, and Cognizant, Xoho, etc., and core companies like the Larsen and Toubro Infotech limited, Hyundai, Mahindra and Mahindra,Rane Brake Linings, Brakes India,City Union Bank, HDFC, etc, for the purpose of sharing colloborative research,consultancy,sharing industry experts, training, curriculum design and development,internship,in-plant training, industrial visits etc. In the academic year 2019-2020, our institution has signed MOU with more than twenty five corporates for various mutual development activities under industry-insitute interaction.We will be introducing Bachelor of Technology program in Computer Science for Business Systems (CSBS) and in AI DS in the next academic year , the curriculum input supported by TCS, Infosys, and Cognizant companies.Our institute has different Centre of Excellence, which is supported by core, software and service oriented organizations for the betterment of student and faculty.Every academic year, twice, our governing council members meet and measures the academic and administrative performance with the support of industry experts.For example,Centre of Excellence for various research areas like Centre for Biofuel research ,Centre for Salesforce etc has been established to provide training on par with the requirement of the industry.

		This Centre entered into a collaboration arrangement to extent the knowledge to the students, Industries and practicing professionals. The vision behind it is to promote and encourage student activities, research projects and relevant courses related to this field. Sri Sairam Engineering College with its vision of being a social partner for the development of nation through its contribution towards fundamental research to innovative newer technology in research and development activities. The R D team of Sri Sairam is committed to excellence in the area of research. The dedicated research team adds its strength and spreads its roots over diverse areas like Manufacturing, Energy, Nuclear Engineering, CAD/CAM, Information Technology, Knowledge Management, Electronics and Communication, Fibre Optics, Computer science and Instrumentation. By knowing the need of research in multi-form and demand in emerging fields, the key ultra-tech disciplines of the future are focused on with thought provoking spirit.
	Admission of Students	Students who shine in their twelfth standard examinations and who aspire for an engineering study are most welcome to our institution for furthering their career prospects. To this effect, our institution had had the benefit of getting very bright students admitted into our college for the past twenty-five years or so. Sairam Institutions in assoication with Tamilnadu State Council for Science and Technology (TNSCST)organizes SAI TECH S2T with the theme Technology Dissemination towards Students,a grand inititative to bring Schools towards technology allows the students to experience the technological innovations before stepping into the institution.We are doing career counseling in a way that it creates awareness and also motivates the students to select the better career. Counseling refers to the process of helping students by providing guidance, moral support, and exploring solutions for the problems being faced.We have established a tradition of bright and enthusiastic students in engineering coming into our fold for higher education, so far. We look for the

keenness of the students' mind to solve any difficult engineering problem, be it mechanical or electrical or in computer science or in information technology or in instrumentation etc. The ability to solve tough mathematical problems is an asset. The ability to imagine and draw an engineering model is also an asset. Students with innovative minds to solve existing problems in a new way is always sought after and we encourage them to participate in several national and sometimes in international competitions also in order to bring out their talent and knowledge. Our management even encourage these bright students to patent their work and get benefitted. Student participation in International Conferences for an invited talk or for a poster presentation abroad, are a part of the innovative student activity in our institution and participation in National and International Hackathon events are encouraged.

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

E-governace area	Details
Planning and Development	Planning and development are carried out in a systematic way by forming committees and frequently discussing the developmental activities of our college. The formation and selection of committee members will be intimated through email and several whatsapp groups are formed for better communication and quick disposal of work allotted. This academic year has seen the completion of our new Library block and is waiting to be inaugurated. New research laboratories for various engineering and science departments are being planned in this academic year in order to establish Research Centers and Centre of Excellence. An 'incubation center 'is being planned in this academic year. An innovation cell has come into existence and students and faculty members can now work round the clock as per their convenience, in order to bring out new innovative design and products. The entrepreneur development cell (EDC), which is already existing in our college has been revamped to cater to the needs of the students and the industry as well. 'Skill Rack' an online platform for practicing programming languages for

	the first-year engineering students also, has been introduced from this year in their regular class time-table itself. This will enable the students to learn more programming languages, other than those existing in their syllabus, to gain domain knowledge in the field of software and hardware practices. Students have been advised to take part in 'Hackathons' in large numbers and groups, and also in national competitions for automobile design, namely, the all-terrain vehicular design competition, besides other events. As on date, 21 clubs for staff/student's active participation is existing in our college and registration for these clubs is done online. Recruitment of new staff members to cater to the needs of the students has been a regular feature of our college and this year also, we have planned to induct qualified faculty to our existing strength so that the teacher student ratio continues to be maintained at 1:15
Administration	The College functions with E-governance system at Government, Society and College level. Even though the college is established in a rural area, the institution tries its best to manage with latest tools of administration in hand. Using Smartphones with social apps, like Gmail and WhatsApp faculty share the notes to students, communicate information, placement news, answer queries etc. It helps to provide a brief notice and reminder of any event, and other important happenings through the college WhatsApp Group for the smooth functioning. The college campus is Wi-Fi enabled, operating with solar cell backup and equipped with CCTV Cameras at every place of need. Edumate (E-Academic process and Progressive Management System) is used for all academic activities through online mode.
Finance and Accounts	The role of computers in maintaining finance and accounts has come as a gift to this department which keeps a record of financial activities through book-entries, all these years. e-governance has become the order of the day and to synchronize their activity with the Head and Trust offices is a challenging

	task. However, this financial year audit report has given an excellent report of our financial practices and has even commended our activity as saying that, never have we seen such wonderful methods to maintain and upkeep of financial records of all transactions, in the colleges audited so far by us.". This was a statement made as a concluding remark by the auditors who came to inspect our financial state of affairs.
Student Admission and Support	In our college, there is a standard and established procedure of admission of students to engineering courses. We have to handover 65 of our total seats to the Anna University for the Government/general counselling process and the remaining 35 of students can be admitted through the management quota system. The general counselling includes those students who will be admitted on merit basis, to be decided from their marks in the school outgoing exams in their 12th standard, namely, in mathematics, physics and chemistry. The general counselling will be conducted by Anna University online. For admission in management quota , the standard procedure is the prospective students should register online in our college website and based on marks and other supporting criteria they will be selected. For getting bright students into our stream, we have the career guidance programme and S2T programs for the school students. there is also a project exposition for the school students in the S2T program. We also provide scholarships to meritorious students, called as Leo Muthu Scholarships. We also admit meritorious, but economically weak students through several educational foundations, like the "Agaram Foundation" and the "Maatram Foundation", to name a few. Here, the entire expenses for the meritorious students and economically weak students, admitted through the merit counselling, are taken care of, for all the four years of their study in our campus, by these foundations.
Examination	Our examination system is one of the silver-linings in a cloud. This system is in place for so many years now and this year became the most challenging

one as the examinations had to be conducted through the online mode for all the students in view of the pandemic, Covid-19. However, we did this successfully, this daunting task by holding exams at different online dates for all the students, giving first preference to the outgoing students. It has produced a highly successful result and we are in the process of maintaining our numero- uno position among all engineering colleges, in terms of Gold medals and pass percentage of marks by our brilliant students. Student attendance and mark statements is governed through online mode.

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
2019	Ms.K.Vaidhegi	-	The Institution of Engineers (India)	4897
2019	Ms.M.Sivaranj ani	-	The Institution of Engineers (India)	4897
2019	Ms. R. Pamila	-	ISTE Membership	550
2019	Mr. J. Jegan Amarnath	CISCO - Conference	-	1500
2019	Dr. S.Samundeswari	MOSICOM 2020- International conference at BITS Pilani,Dubai	-	10064
2019	Dr. E.Priya	International conference on Biomedical Engineering and Biotechnology, Seoul, Republic of Korea	-	68159
2019	Dr.T.Porselvi	"Sensor Based Smart Segregation Dustbin" in Second International	-	64819

Year	Title	Conference		Amount
		Conference (ICIAMR 2019) On Innovation And Advanced Multi Disciplinary Research at PACC, Singapore during 12th and 13th October 2019		
2019	Dr. C.Komathi	MOSICOM 2020- International Conference at Bits Pilani University, Dubai	-	25060
2019	Dr. C. Priya	International Conference at Bali, Indonesia	-	14938
2019	Dr K Maran	International Multidisciplina ry Conference	-	17000
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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)
2019	FDP on A dvancement s in Mecha nical, Civil Production Engineerin g and ICT Teaching Learning Process (Online)	NIL	13/05/2020	26/05/2020	140	Nill
2019	-	CCNA- Advanced Routing Co nfiguratio n using Packet Tracer	26/02/2020	27/02/2020	Nill	7
2019	FDP on Emerging	-	18/11/2019	22/11/2019	30	Nill

2019	trends in Sustainable development in Transportation Engineering					
2019	ISTE Sponsored Five Days FDP On "Renewable Energy Systems".	–	22/07/2019	26/07/2019	45	Nill
2019	FDP on Innovations on teaching pedagogy	–	10/12/2019	14/12/2019	25	Nill
2019	AICTE Sponsored Short Term Training Programme on "Natural Fiber Composites – Recent Technology for Sustainability and Eco-Friendly Environment"	–	24/06/2019	29/06/2019	20	Nill
2019	INTERNATIONAL FACULTY DEVELOPMENT PROGRAM ON 360 DEGREE CLASSROOM MANAGEMENT - TEACHING METHODOLOGY (Online)	–	16/05/2020	22/05/2020	148	Nill
2019	FDP - Data Science using Python	–	06/01/2020	18/01/2020	30	Nill
2019	Workshop - Industrial automation	–	25/09/2019	27/09/2019	69	Nill

| 2019 | Faculty Development Training Program on Working Culture for Profes sionals | - | 11/11/2019 | 16/11/2019 | 25 | Nill |

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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
Refresher Course on Recent Innovations in Electrical, Electronics , Instrumentation , Automation Teaching pedagogy	20	18/05/2020	30/05/2020	14
Refresher course on Advancements in Mechanical, Production and Civil Engineering and ICT in Teaching - Learning Process(Online)	30	13/05/2020	26/05/2020	14
FDP - Data Science and exploratory data analysis with R and Python	4	07/06/2019	20/06/2019	15
Two week Online Refresher course for Management Commerce Faculty E-Learning Resource and Teaching	11	27/04/2020	09/05/2020	14

methodology in Education and Research Development				
FDP on Next Generation Intelligence	2	20/05/2020	25/05/2020	6
FDP on Machine Learning and Data Manipulation using R and SQL	4	30/10/2019	06/11/2019	7
Faculty Orientation Programme on "Study Opportunities Abroad"	1	26/08/2019	26/08/2019	1
FDP on Innovation in teaching pedagogy	1	10/12/2019	14/12/2019	5
Refresher course Recent trends in information, computing,communication and teaching methodology competency	26	04/05/2020	17/05/2020	14
Online STTP on Infrastructure development-possibilities and challenges ahead	9	25/05/2020	29/05/2020	5
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
362	362	414	414

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Free transport facilities. - Cab facilities for Heads of the department and senior faculty. - Medical leave.	Free transport facilities - Medical leave. - Maternity leave. - Marriage gifts with one-week leave. - Special	Leo-Muthu Merit Scholarship for students. - Leo-Muthu Merit Scholarship for centum scorers in Mathematics,

- Maternity leave. - Marriage gifts with one-week leave. - Special study leave to pursue higher education. - Support for the education of the children in the group institutions. - Group insurance. - Fee waiver for teacher's children in the group institutions. - Medical support from group medical institutions. - Subsidiary fare in canteen facilities and hostel facilities. - Housing facilities for staff-Sabbatical leave is provided for staffs

study leave to pursue higher education. - Support for the education of the children in the group institutions. - Group insurance. - Fee waiver for teacher's children in the group institutions. - Medical support from group medical institutions. - Subsidiary fare in canteen facilities and hostel facilities. - Housing facilities for staff-Sabbatical leave is provided for staffs

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 projects. (IV year). - Cash awards to best mini projects (III year)-National level competetions are conducted for the welfare of students-Licence for Coursera online courses is obtained for the benefit of faculty and students-We obtained Licence for conducting Online classes through Zoom in this pandemic scenario-We provide PEGA,CCNA certification courses which will improve the chances of placement with good salary package. Students, who excel in their studies in the semester examinations and getting Gold medals and university ranks, get scholarship awards from the management, every year, for his/her brilliant academic performances. 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.

6.4 – Financial Management and Resource Mobilization

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

The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution. Auditing plays a prominent role in the smooth functioning of the Institution's Financial performance. The internal audit team is instrumental in setting up the financial controls and systems since the year of inception, 1995. It has brought in a methodical and organized approach to evaluate and constantly improve the financial management, devise strategies for compliance with laws and regulations and overall financial control process. The scope of the internal audit programme has encompassed working of various compliances under appropriate laws and rules and regulations framed there under, sufficient systems and procedures are in place for adherence of institutional policies, physical verification of assets, consumables, stores, inventory, spare parts, and other assets, proper books of accounts, vouchers along with supporting documents are maintained, confirmation of balances from debtors, creditors and other parties are obtained periodically at the end of the year and proper systems and procedures are in place for internal control at the various department levels. A well planned schedule of regular academic activities, new ventures, scholarships, functions and extracurricular activities is prepared by the academic team comprising of Management Representatives, Principal, Deans and Heads of Departments at the start of every academic year. This enables preparation of budgets as per the requirements and is open to slight modifications at the start of odd and even semesters. It has been a regular practice that the expenses of the activities are submitted to the Accounts officer at the closure of the ventures and planned activities by the committee allocated for the specific task of closing the accounts. Most of the transactions are through online and through other financial instruments. Internal Audit is performed and the reports are obtained before the conduct of the external audit, after the closure of the accounts. Taking into cognizance these observations, an extensive list of requirements is given for compliance and submissions to the Statutory Auditor for completing the auditing of the financial statements of the Institute and providing a realistic statement through his audit report that the books of accounts reflect a true and fair view of the operational activities and that the books of accounts reflect a true and fair view of the operational activities and the financial position of the Institute for the relevant financial year. External Audit is conducted by the Statutory Auditors after 30th June of the subsequent year. During the Internal Audit, the accounts are regularized, to obtain confirmation for the credit balances, to collect documentary evidences in respect of payments, compliance of TDS, Statutory Formalities and Reconciliation of unit-wise balances with the Control Accounts and Bank Reconciliations. The copy of the audit report is preserved. External Statutory Audit is conducted and the consolidated reports are submitted to the relevant authorities. Chartered Accountant of the Institute conducts regular accounts audit and certifies its Annual Financial statements. All Utilization Certificates are countersigned 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	Funds/ Grnats received in Rs.	Purpose

funding agencies /individuals		
Refer attachment	1649380	Funds/Grants received for Travel grants/Sponsorship/Gift Vouchers/Cash Awards attached-excel file

[View File](#)

6.4.3 – Total corpus fund generated

4781958

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)

1. The parent-teacher association meets at least two times in an academic year in order to take stock of students/wards progress regularly. 2. Counselling Sessions for students who lack consistency in learning and performance, belonging to First Year with the assistance of PTA. Counselling Sessions for students who lack consistency in learning and performance, belonging to First Year with the assistance of PTA 3. Active Involvement of parents in the Department Advisory Board (DAB) 4. Internal Quality Assurance Cell has two parents as board members . 5. Curriculum review meeting is conducted periodically. 6. Social relevant activities supported by the parents. 7. Self and entrepreneurial supporting activities facilitated by the parents. 8. Parents valuable feedback for students counselling and supporting their wards progress.

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

1.Disaster Management and Safety club jointly associated with Petroleum conservation Association , organized 2 days safety workshop for bus drivers on 23/.07.2019 and 24.07.2019. The number of beneficiaries were 160. The outcome was: Enhanced safe driving, avoid accidents and safety for the students as well as reduce the fuel consumption. 2. Disaster Management and Safety club together with Echo and Swacch Bharat club jointly organized cleanup activities in Sairam Farm House on 28.7.2019. The beneficiaries were: 63. The outcome was: Cleanup activities makes our campus plastic free, clean and green. 3. Disaster Management and Safety club and Echo and Swacch Bharat club jointly organized cleaning activities in Chitheri Lake (Somangalam Village) on 15.9.2019. 4. Disaster training Programme for youth by 4th Battalion NDRF - Arakkonam collaboration with Disaster Management and Safety Club of Sri Sairam Engineering College through Nehru Yuva Kendra Sangathan (NYKS) of Chennai from 04.11.2019 to 09.11.2019. The outcome: In the training program, volunteers sensitized about basic concepts of disaster management and rescue etc.

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

1.Formation of Board of Studies to frame autonomous syllabus for every UG / PG programs as per the directives of UGC and the affiliating university, namely Anna University, Chennai. 2.In the new curriculum, around 35 to 45 of the syllabus is focused on Innovation, Skill, Experiment, Value and activity based learning. 3.Membership in institution's Club is mandatory for students. 4.Internship was made as a part of curriculum.

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
2019	50th Anniversary celebration of NSS	24/09/2019	24/09/2019	24/09/2019	228
2019	TEDX Srisairam Engineering College on the theme Plan,Proceed,Proclaim	12/10/2019	12/10/2019	12/10/2019	500
2019	Innovation Day(Dr.Abdul Kalam Birthday)	15/10/2019	15/10/2019	15/10/2019	128
2019	SAITECH School Towards Technology	02/11/2019	02/11/2019	02/11/2019	2250
2019	Six Day FDP on Working Culture for Professionals	11/11/2019	11/11/2019	11/11/2019	30
2020	Innovation Techniques in Consumer Goods Industry	23/01/2020	23/01/2020	23/01/2020	120
2020	Webinar on Markets and Business Development Model	24/02/2020	24/02/2020	24/02/2020	85

2020	Two week Online Refresher course for Management Commerce Faculty E-Learning Resource and Teaching methodology in Education and Research Development	27/04/2020	27/04/2020	27/04/2020	750
2020	Two weeks Online Refresher Course on Recent Trends in Information,Computing,Communication Teaching Methodology Competency	04/05/2020	04/05/2020	17/05/2020	500
2020	Two Weeks Faculty Development Program on Refresher course on Electrical, Electronics, Instrumentation, Automation and Teaching pedagogy(Online)	18/05/2020	18/05/2020	30/05/2020	500

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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
"Entrepreneurship Awareness Camp"	24/06/2019	25/06/2019	35	50

Workshop on " Entrepreneurship and Innovation as Career Opportunity for women"	18/07/2019	19/07/2019	225	60
Program on Sentisation towards Gender Equality	01/08/2019	05/08/2019	300	150
Stress Management Program for Women	19/08/2019	19/08/2019	150	120
Awareness on Rural Women Empowerment	07/09/2019	07/09/2019	33	57
Seminar on Women Empowerment	27/09/2019	27/09/2019	100	150
Self Defence Workshop for women	01/10/2019	01/10/2019	35	50
Awareness on Eradication of Poverty	03/10/2019	03/10/2019	130	50
TEDxSairam 2019	12/10/2019	12/10/2019	60	95
"My Story- Motivational talk by a Successful Women Entrepreneur	24/10/2019	24/10/2019	135	54
Capacity Building in Gender Equity	02/11/2019	02/11/2019	115	90
Women Health awareness Program	17/12/2019	17/12/2020	54	60
Gender Pay Gap Awareness Program	19/12/2019	19/12/2019	33	57
Women Entrepreneurship Awareness Programme	06/01/2020	08/01/2020	40	40
Rally on Women Safety	06/02/2020	06/02/2020	180	140
Awareness Program on	14/02/2020	14/02/2020	390	130

Female Infanticide				
Seminar on Inequality of Women in India	21/02/2020	21/02/2020	182	158
Awareness Program on Malnutrition in Women Children	02/03/2020	02/03/2020	130	120
Sports Day'2020	04/03/2020	04/03/2020	620	1015
International Women's Day Celebration	12/03/2020	12/03/2020	2500	1000

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 – 39.15 Tonnes • Fertilizer Produced - 4422 Kgs 40 of power requirement is met through LEDs Lighting power requirement met through LED bulbs - 70 KWH

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	90
Provision for lift	Yes	30
Ramp/Rails	Yes	10
Braille Software/facilities	Yes	Nill
Rest Rooms	Yes	25
Scribes for examination	Yes	Nill
Special skill development for differently abled students	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	14	24	30/06/2019	29	Swatch Bharat summer internship camp	In this event some major awareness creating activitie	110

						s like Rally, Wall painting and Lake cleaning were conducted	
2019	14	24	13/08/2019	2	Athivarathar Food Distribution	In this event food , arranged by the college for needy public was distributed.	50
2019	14	24	16/08/2019	1	Ullas School Students Training	The Students of 10th standard were trained to face the exams by the NSS volunteers	60
2019	14	24	19/08/2019	1	Tree Plantation	More than 150 tree samplings were planted by NSS Volunteers.	64
2019	14	24	29/08/2019	1	Fit India Movement Awareness (Govt. Of India)	The Awareness about fit India was given by the Price Minster of India to students .	100
2019	14	24	07/09/2019	1	Ullas Can Do Workshop	Many students were trained mentally to face the exams in this	9

						workshop and awards were presented by NSS volunteers to best students.	
2019	14	24	15/09/2019	1	Tree Plantation	More than 200 samplings were planted by the NSS Volunteers in this event.	55
2019	14	24	20/09/2019	8	National Integration Camp (Ministry of Youth and Affairs)	In this event various cultural activities and service activities were performed by the NSS volunteers	2
2019	14	24	20/09/2019	7	National Youth Camp	Activities like trekking , building tent and cultural were done by the NSS Volunteers	4
2019	14	24	21/09/2019	1	Tree Plantation	.More than 100 tree saplings were planted behind the leomuthu stadium by NSS volunteers.	25
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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	01/06/2019	The students were encouraged and sponsored to pursue online courses based on the area of specialisation through Coursera, Edx, etc. The admission team and the faculty made sure of all the clarifications that were raised by the students and the parents including the Identity card, the disciplinary action based on nature of misconduct, warning, restrictions on certain action, violations and anti-ragging enforcement. The students were also involved in community service that fosters integrity towards the intellectual and ethical environment of the institution.
CODE OF CONDUCT – TEACHING STAFF	01/06/2019	The faculty members were encouraged to follow human values and ethics in the polluted environmental scenario and to teach the students to follow ethical standards in the human life and also to pursue online courses based on the area of specialisation and values and ethical related courses through NPTEL, Coursera, Edx, etc. They are also motivated to focus on their respective roles and responsibilities, the teacher shall devote his / her time and energy to develop and improve their academic and professional competence. The teachers shall prepare lectures and Power point presentations, Case studies, notes in pdf and engage classes online and clarify doubts on and off

			the classes. 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. Overall they should seek to manage professional growth continuously through study and research. Every faculty member has to update and maintain an active membership of professional organizations and strive towards excellence.
CODE OF CONDUCT - NON-TEACHING STAFF	01/06/2019		• All the non-teaching staff should carry out their assigned work with complete involvement and honesty. • The staff should remain present in the college, atleast 10 min before the start of college on all working days. • 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. • They should maintain professional ethics in the campus and should maintain proper behavior with the authorities, students, parents and other stake holders. • The staff working in laboratories should keep proper maintenance and cleanliness. • They

	should carryout additional work assigned to them as and when required. • No staff employed in the college shall engage directly or indirectly in any trade or business other than their assigned portfolio. • They should maintain the college details with strict confidentiality and care to be given in maintaining the records and documents.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Safety Awareness Workshop	10/06/2019	11/06/2019	450
Yoga Day celebration	21/06/2019	21/06/2019	3000
Awareness Program on Global Warming	22/07/2019	26/07/2019	330
Tree Plantation	19/08/2019	19/08/2019	64
Program on Fundamental Duties under the constitution of India	26/08/2019	26/08/2019	380
Fit India Movement Awareness (Govt. Of India)	29/08/2019	29/08/2019	100
Teacher's Day Celebration-Human values and Best practices	05/09/2019	05/09/2019	600
Awarnes program on Traffic Safety	06/09/2019	06/09/2019	300
Seminar on Ayuveda and Yoga for Holistic Development	07/09/2019	07/09/2019	450
Tree Plantation	15/09/2019	15/09/2019	55
[View File](#)			

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

1. Natural FIBER Composites-Recent Technology for Sustainability and ECO-Friendly Environment
2. Initiation ceremony Energy Awareness workshop on "Save one unit/Day"
3. Awareness program on Global Warming for the young minds.

4. Discussion On Sustainable Development Goals (SDG) – Innovation And Entrepreneurship
5. Tobacco products are strictly banned within 2 kilometres around the campus
6. Swachh Bharat summer internship camp
7. Most Clean Campus in India.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1 .TITLE OF THE PRACTICE: Digital Learning – Instructional Practice / Technology- Enhanced Educational Strategies OBJECTIVES OF THE PRACTICE: • To develop effective self-directed learning skills. • To make the teaching learning process more interesting and to improve student performance in their academics. • To give hands-on experience and in-depth knowledge by using lecture videos to the students from their first year. • To sharpen critical thinking skills, which are the basis for the development of analytic reasoning. • To use the advanced technology in the teaching learning process. • To post assignments, questions, readings, and grades as well as ways to interact with the students through forums or chats. THE CONTEXT:. Students are changing, and those once effective teaching methods are becoming stale. Faculty, should find a new way to engage students. Hence, Online classes is evolved to provide theory knowledge and hands-on experience to all the students with an appropriate schedule. This supplements teaching and learning in traditional classroom environments as they can provide new opportunities for enriching existing curriculum through creative, authentic and/or flexible, nonlinear learning experiences. It provides space for participation, collaboration, distribution, dispersion of expertise, and relatedness. It helps in share and search for knowledge which contributes to informal learning. One of the biggest challenges in online education is the lack of interaction between students where as google class room try to provide more opportunities for communication. Online course programs like Coursera, NASSCOM, NPTEL and Udemy helps the students to enrich their knowledge. THE PRACTICE: This programme is designed in such a way that, lecture will be taken through PowerPoint / video presentation by professors through google meet. Faculties post assignments, questions, relevant articles, research and current knowledge and many more. The link will be sent to each student by e-mail and WhatsApp. The students access the virtual classroom on a very regular basis which encourages outside the classroom learning. For online courses, there will be a lecture video which will be taken by well renowned professors. After completing the course, exam will be conducted and the person who score higher marks will be given certificates and the mentor will also be getting the certificate . EVIDENCE OF SUCCESS: Reports are generated through the exams conducted. Multiple tests are conducted and the progress of the students are tracked with the help of these reports. The improvement of the students can be traced and if there are no improvements, the students are helped in the areas that they are weak at, as per the report. This enables the students to follow a planned and defined path to achieve their goals . The person who is performing well in online course will be appreciated and rewarded by the college. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: The major resource required is experienced faculty members, good content to interact students, updated systems with good internet connectivity. Students are provided with licence for doing online course at free of cost. Students should have proper internet connection to attend the sessions without interruption. 2. TITLE OF THE PRACTICE: - Plastic Free Green Campus OBJECTIVES OF THE PRACTICE: • To inculcate Environmental awareness in students • To make Environmental consciousness as part the daily life • To bring a change in attitude towards environmental protection • To make the campus plastic free, green, and litre free • Effective use of waste management THE CONTEXT:. For the

past few decades the world has realised the importance of environmental protection and we are witnessing a paradigm shift in almost all discourses towards a better, less polluted, green environment as the pressing need of the hour. Environmental deterioration has reached such an alarming proportion that the only solution is a fundamental shift in attitude. This is where the role of students as the future citizens and the ambassadors of change come in handy. Our college wanted to tap this potential of students and create in them heightened awareness for environmental protection. THE PRACTICE: A green protocol is implemented in the campus and Green protocol statement is fixed in all the class rooms and other relevant places. Plastic is banned in the campus and steel vessels, glasses, green leaves etc are used. Use of plastic water bottles is not completely banned but reduced to the maximum extent. Effective waste management system is also implemented by collecting solid waste, bio waste and electronic waste separately. EVIDENCE OF SUCCESS: Campus has become cleaner, litre free and plastic free. There is heightened awareness in students, which is evident in their participation in a number of extension activities related to environment like Tree Plantation, Cleaning activities under NSS, activities under Eco and swachh Bharath club etc. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: Additional cost needed for the implementation of green protocol caused initial problems. Though everyone is aware of the environmental crisis most of them consider it as a distant phenomenon. So implementation of the programme was little bit difficult in the beginning but awareness classes and activities were conducted thru Eco and swatch Bharath club to create more awareness among student community.

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-PRACTICES20.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

INSTITUTIONAL DISTINCTIVENESS The institution is keen to bring about changes in the current market trend in the engineering education, as the receptivity is not quite encouraging, we have the objective of bringing the current twelfth standard school out goers to instil the scope for engineering courses, to elaborate the engineering specialization to the aspiring young minds, to conduct the orientation program to discuss with industry experts. These objectives are achieved through programs like Diploma to Degree (D2D), School to Degree (S2D) orientation program, Lets Make Engineering Simple (LMES) orientation, and training program. One major challenging issue in the current education scenario is the slowdown in the engineering admission in general. The advances in the particular fields of science and technology are growing and talented graduates are lacking in the job market. The need for the hour is the engineering graduates with a mix of strong technical and professional skills to face new age requirements. The program emphasizes on the congregation of school out goers to take-up their career in the engineering and technology stream. The potential engineers are given an eye-opener program to interact with the industry stalwarts and the expertise education counsellors to give the orientation about the engineering and technology-related jobs, advance studies and research opportunities for the engineering aspirants in the national and international perspective. The program also stresses the schools in the suburban as well as rural areas and brings awareness to the latest courses that are available in different branches of engineering. The students were encouraged with the hands-on experience projects and the same were exhibited in the college venue, where thousands of youth ardently participated and shared their knowledge. The entire program was a rich knowledge sharing experience.

The success of the program lies in the increase of engineering aspirants to take up their courses in different specialization of engineering and technological courses and pave the way to success in the engineering job market. Inviting the subject expertise and faculty members from the respective schools and appointment of the evaluator for the projects requires efficient planning and approval in advance from the respective authorities. These activities of community development through nurturing the students set us ahead to reach wider masses and provide quality education to all the deserved. Autonomous status helps us to introduce new curriculum with subjects to meet industry needs and value added programs. Internships made mandatory for all undergraduate students. Students are also engaged with life skill management programs through various club activities. Digital learning is a type of learning that is accompanied by technology or by instructional practice that makes effective use of technology. It encompasses the application of a wide spectrum of practices including: blended and virtual learning. Institution also has the practice of engaging students through google classroom webex and zoom. Students are provided with opportunity of doing certificate courses through NPTEL, COURSERA and NASSCOM.

Provide the weblink of the institution
https://sairam.edu.in/wp-content/uploads/2018/08/INSTITUTIONAL-DISTINCTIVENESS20.pdf

8.Future Plans of Actions for Next Academic Year

1. To increase more number of innovative projects and start ups. 2. To enhance students placement with higher package in dream corporate. 3. Implementation of EOMS (ISO 21001:2018). 4. To increase the number of collaborative research and consultancy with industries. 5. To increase more number of patent filing, publishing and grant. 6. To stabilize the faculty strength on par with the expectation of industry requirements.