



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SREE RAMA ENGINEERING COLLEGE

**SREE RAMA ENGINEERING COLLEGE, OPP. LIC TRAINING CENTRE,
KARAKAMBADI ROAD, VENKATAPURAM, RENIGUNTA, RAMI REDDY
NAGAR, MANGALAM, TIRUPATHI, CHITTOOR**

517507

www.sreerama.ac.in/srec/

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Sri Mannem Rami Reddy garu, the founder of Sree Rama Educational Society started Sree Rama Engineering College (SREC) with an aim to impart quality education to the student community of backward region of Rayalaseema in the year 2008. His outstanding personality, acumen and magnificent vision have made him a benevolent patron of the institutions.

SREC fosters a vision of educational transformation in keeping pace with the times. It emphasizes a symbiotic relationship among the students, faculty, academic curriculum and industries. The young institution offers a holistic approach to technical education, personality development and soft skills.

SREC is located in a sprawling campus of 10.01 acres surrounded by the exhilarating nature, away from the din of crowd habitant with pleasant, calm, serene ambience of environment which is conducive for the study of professional courses and personality development. The zeal in promoting technical education for rural literacy and continuous good results of this institution fetched an overwhelming response from aspirants of engineering education. Institution is affiliated to Jawaharlal Nehru Technological University Ananthapur, Ananthapuramu.

The institution offers undergraduate and post graduate programmes - B.Tech., in Five branches, M.Tech., in four specializations and MBA program. The present intake strength at first year level is 480 in B.Tech, 72 in M.Tech. and 120 in MBA.

Vision

Sree Rama Engineering College strives to be one of the best educational institutions in the country by transforming the students into multifaceted individuals with a penchant for academic excellence in the field of Engineering & Management with moral & ethical values and moulding them as an empowered citizens to meet the global requirements.

Mission

- To be a student-centric campus with innovative, creative learning by a collaborative approach with all the stakeholders for offering an industry specific course apart from the regular curriculum.
- To create a conducive environment for students towards research, innovation with state-of-the-art infrastructure facilities.
- To develop global leaders with human & ethical values by continuous mentoring and nurturing them to acquire their dreams

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Good visionary management to take the institution to highest levels of quality.
- Well defined organizational structure with functional statutory bodies, respective cells and committees for visualization of strategies
- Location of the institution
- Good relation among Principal and Staff
- Well-developed infrastructure
- Good Sports facilities
- Good support for Extra and Co-curricular activities
- Good campus placements
- Placement and training cell grooms the students to be industry ready through training on communication, soft skills and special technical training
- The students are motivated to participate in in-plant training, internships, industrial projects, paper presentations, workshops and seminars.
- Offering value added programs & certificate courses to students in all departments
- Industry specific add-on training programs
- Qualified, dedicated, knowledgeable and cooperative faculty members
- Strictly adhere to academic schedule
- Ragging free campus
- Automated system in the library is incorporated for distribution of books, Journals and other resources such as e-services are also upgraded. Digital Library is provided for easy access of information
- Great focus on holistic development of students that goes beyond mere classroom teaching and also in encouraging them to be active participants in social work and community development activities
- The institute has Memorandum of Understanding (MoU) with various organizations that include ICT Academy, Code Thantra, Data Point etc.
- Effective mentoring system for close monitoring and counselling with mentor-mentee ratio of 1: 17
- Student Counseling and Guidance system
- Various clubs and chapters are constituted to facilitate co-curricular and extension/outreach activities like IEEE, ISTE etc.
- Green campus
- ISO 9001:2015 Quality management system certified institution
- Low students' dropout rate
- Extensional activities through Red Cross, NSS,
- Wi-fi enabled campus
- Abundant trust of parents, alumni and Employers and Visionary management team

Institutional Weakness

- The institute has yet to receive funded projects, standard publications, patents and consultancy
- Consultancy activities and research funding.
- Majority of students are from rural areas with regional language (Telugu) as the medium of instruction in school
- Lack of enthusiasm even among meritorious students to pursue higher studies
- No residential facility for Faculty and staff
- Inability to attract major MNCs for campus selections on a consistent basis
- Sustained effort to reach 100% placements
- Limited comprehensive Academic ERP System
- Industry-Institute interaction

Institutional Opportunity

- Locational advantage for strengthening academia-industry linkages
- Involve more faculty members in research through incentives
- Establish stronger relationships with R&D organizations
- To undertake R&D projects with funding from Government and Private Sectors.
- To undertake consultancy assignments.
- To improve employability of the students
- Use its alumni base for institutional growth

Institutional Challenge

- Maintaining intake at the approved level.
- Attracting major and Core companies for campus recruitments
- Inflation and rising prices being not met by fee structure
- Innovations in teaching pedagogy on par with global standards
- To establish linkages with National / International Organizations / Institutes
- Vast academic syllabus and rigid academic schedule
- Huge delay by the Government in reimbursing the tuition fee for economically and socially weaker sections.
- Delayed admissions by government policies
- Quality of student intake in certain departments are challenging due to change in personal preferences

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Sree Rama Engineering College is affiliated to JNTUA Ananthapuramu. The Institute follows JNTUA Curriculum for all UG and PG programs. SREC prepares its own Event Calendar under the Ambit of Academic Calendar by JNTUA which mentions the details of the month wise activity with Internal Examination dates in adherence with the academic calendar given by JNTUA, SREC schedules our CIE during our Ist and IInd schedule of Instructions which Includes Quizzes, MCQ's and presentation by students, once the tests are completed calculation of CO-PO/PSO attainments are arrived, CIE is also done for practical examinations, Project work, Internships. The laboratory rubrics is followed in case of Laboratory examinations.

Institute has a well-planned, documented, and structured mechanism for implementation and finding gaps in the curriculum for necessary action to ensure effective curriculum delivery. Curriculum enrichment is achieved through Add-on/ Value-Added Courses imparting transferable and life skills. These courses are designed based on the recent developments and the feedback received from the stakeholders. The focus is on providing technical knowledge and soft skills development. Institute has the provision various committee activities which contribute to sensitizing students to cross-cutting issues like Gender, Environmental Sustainability, Human Values, and Professional Ethics for the development of Creative and Divergent competencies. Institute takes structured feedback from the stakeholders and the same is analyzed and corrective measures are taken for improvement and the same is communicated to the affiliated university.

Teaching-learning and Evaluation

Including both UG and PG students, the average enrollment rate for the past five years is 67.34%. Students are admitted to the college in accordance with the rules and regulations of the Andhra Pradesh State Government. The institution maintains full-time faculty student ratio as per AICTE norms and for the current academic year the Student Teacher ratio is 1:12. SREC employs a teaching strategy that emphasizes education delivery using a student-centric, outcome-based approach. Sincere efforts are made to meet the needs of both advanced and slow learners.

Students are insisted to develop and enhance the learning experience through the student centric methods such as experiential learning, participative learning and problem solving methods. The institution is equipped with modern ICT tools to improve an effective teaching learning process. The institution has a good and sound mentoring system to solve both academic and personal issues of the students and the ratio of student to mentor is 1:17.

The institute recruits well qualified and experienced faculty as per norms. The courses are assigned to the faculty based on their specializations. Innovative processes in Teaching and learning like ICT tools and modern pedagogical techniques are adopted by the faculty.

The periodic internal assessments are conducted to assess the student's performance. The students' grievances with respect to external examinations are redressed through the centralized exam cell of the institution as per the university norms. Any discrepancies or issues in internal assessment are solved by the concerned faculty and Head of the Department. A set of PEOs, POs and PSOs are formulated for every program based on the 'outcome-based education' approach. Students are educated on POs, PSOs, PEOs (also displayed in website). The institution systematically checks for attainment of outcomes and reviews the Teaching- Learning strategies.

Research, Innovations and Extension

The Institution has adequate infrastructure like a state of the art library, laboratories, and internet facilities to undertake research activities. Laboratories are with the latest and sophisticated instruments which are used for research activities. The Library has a large collection of books and journals for supporting research. Computing facilities with the internet are made available for students and faculty for supplementing the research activity.

The Institute Innovation Council strives to create a vibrant innovation ecosystem on the campus and provides a forum for scouting ideation and Pre-incubation of prototypes.

An Entrepreneurship Development Cell is established to create an entrepreneurial ecosystem which provides a forum for students to translate an idea into a fundable technology business. Incubation support has been offered to the students and alumni who are interested to start their own ventures on campus.

An industry Institute Interaction cell has been constituted to bridge the gap between industry and academia. Various industry-led activities and MoUs have been helping the students to make them industry-ready. For the holistic development of students NSS Unit is established which motivate the students towards community development and infuse a sense of social responsibility. Various activities that are being conducted help the students to understand the problems faced by the society and enable them to find solutions. Students and faculty are actively involved in community development and awareness program.

Infrastructure and Learning Resources

The college is spread over 10.01 acres of land with a built up area of 18310 sq.m., satisfying the requirements of AICTE. The college has established good infrastructure for academic activities, administrative processes, support facilities, library and computing facilities to facilitate exemplary student learning outcomes, enhanced student employability. Also the Institution is constantly upgrading physical infrastructure to provide the best facilities for existing and new programs. The sponsoring society allocates funds in this regard based on the budgetary proposals. Adequate and separate facilities such as common rooms, wash/rest rooms are provided for women faculty and girl students. The Institution has a strong work force for maintenance and repairs of the equipment. Qualified and experienced staffs are available in the Institution for maintenance, repairs and regular up-keep of electrical, plumbing, sanitary, gardening and civil works.

The Institution takes care of all physical, academic, IT and other facilities with effective maintenance support allocating appropriate budget for optimum utilization of the resources. Regular maintenance and upkeep of the infrastructure facilities and equipment is done through AMCs and by in-house staff and technicians. Outside experts are hired as and when required.

Other amenities such as dispensary, canteen, waiting halls for boys and girls, placement and training Centre, play grounds, shuttle and volley ball courts are available for the benefit of the students. Facilities such as communication facilities, transport, uninterrupted electricity and mineral water supply facilitates the student life.

Student Support and Progression

The economically and socially challenged students are provided with financial assistance by State and Central Government Agencies based on economic criteria. The college takes utmost care for arranging such scholarships. The college has a cross section of students who have been benefited by different scholarships and free-ships provided by the government.

The college has regularly been organizing several capacity enhancement activities involving internal resources and also by inviting external experts. The capability enhancement and development schemes include skill development courses on communication skills, soft skills, and technical skills and structured CRT programs. Co-curricular and Extracurricular activities are also embedded into the system for an overall development of a student. The college has a transparent mechanism for timely redressal of student grievances through Anti-ragging, Internal Complaints Committee and Grievance Redressal Committees to minimize grievances in the campus. The college is providing good placement opportunities for the students. An active student involvement is there in all academic and administrative committees of the institution and there is considerable participation and secured few awards in sports activities in various tournaments and competitions organized in different parts of the country.

There is a registered Alumni Association which contributes significantly to the development of the institution. Alumni Meet is being organized every year. Alumni are supporting the institution in the form of expert lectures, internships, placement and other activities.

Governance, Leadership and Management

The Vision and Mission of the Institution are in tune with the objectives and policies of Higher Education in India. The Institution follows a participatory governance model where in delegation and decentralization of authority to competent functionaries and committees is made for effective and efficient management, enhance stakeholder engagement and satisfaction.

The Institution has a strategic plan for its development. The future requirements of infrastructure, human resources, finance are envisaged at the meetings of the Governing Body, which formulates the action plan. Regular meetings of all the stakeholders are held, recorded and the resolutions are placed before the Governing Body for perusal. The Governing Body meets periodically to discuss on planning and execution of various academic and administrative activities.

The other statutory bodies also meet and discuss the implementation of these solutions passed. The Management, Principal, Director and Heads of Departments constantly interact and motivate members of faculty, administrative and supporting staff on issues relating to academic progress, administrative transparency and quality measures that are being implemented in the Institution.

The Principal, Director, HODs and faculty members are actively involved in executing the action plans and policies for fulfilment of the Vision and Mission of the institution. Various committees have been constituted with senior faculty members as conveners in the college and entrusted with the responsibility of implementing the programs and policies and ensure these committees function effectively for achieving the goals of the institution. Internal Quality Assurance Cell (IQAC) plays a crucial role in implementation of institution's quality plans. Academic and Administrative units work in coordination, to achieve quality.

Institutional Values and Best Practices

Institutional Values and Social responsibilities are practiced by the Institute through systematic channels. Gender equity programs are arranged regularly where Lecture sessions and Dedicated workshops are organized through Women Empowerment Cell and Women Protection Cell. Initiatives are taken for environmental consciousness for sustainability in terms of energy-saving through the installation of LED lights, usage of Solar panels as Renewable energy, Green landscaping, offering courses on Environment Engineering, etc. Various audits such as energy, green, and environment are conducted for the Institution.

Promotion of awareness about social issues, National values, and Human values are practiced through NSS. Apart from courses offered in the Curriculum on Human Values and Ethics, the student Training and Placement cell also participates in thoroughly nurturing professional ethics through the training of students.

Best practices of the Institute are mainly focused on Outreach activities through NSS. Meticulous efforts are taken for years for a smooth transition of traditional Teaching-Learning processes to activity-based learning. Implementation of Flipped Classrooms, Project-based courses, Project centric courses, and other innovative approaches are carried out for ensuring desired Outcomes. Institute's distinctiveness is with the strong Learner - Centric approach to generating competent Professionals and responsible Global citizens, who are sensitized towards the needs of the Society. In a Progressive environment, SREC offers a right blend of an appropriate toolset, a Professional skill set, and a Motivated mindset for its learners to excel in their professional carrier.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SREE RAMA ENGINEERING COLLEGE
Address	Sree Rama Engineering College, Opp. LIC Training Centre, Karakambadi Road, Venkatapuram, Renigunta, Rami Reddy Nagar, Mangalam, Tirupathi, Chittoor
City	TIRUPATI
State	Andhra Pradesh
Pin	517507
Website	www.sreerama.ac.in/srec/

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	K. Jayachandra	0877-2233699	9492658105	-	principal.4c@jntua.ac.in
IQAC / CIQA coordinator	A. Muni Sankar	0877-2236699	9963063239	-	naac.co-ordinator@sreerama.ac.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
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State	University name	Document
Andhra Pradesh	Jawaharlal Nehru Technological University, Anantpur	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	03-07-2022	12	

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Sree Rama Engineering College, Opp. LIC Training Centre, Karakambadi Road, Venkatapuram, Renigunta, Rami Reddy Nagar, Mangalam, Tirupathi, Chittoor	Rural	10.01	18310

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Civil Engineering, CIVIL ENGINEERING	48	As per Guidelines Specified by APSCHE	English	30	1
UG	BTech,Computer Science And Engineering,COMPUTER SCIENCE AND ENGINEERING	48	As per Guidelines Specified by APSCHE	English	180	180
UG	BTech,Computer Science And Engineering,ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	48	As per Guidelines Specified by APSCHE	English	60	60
UG	BTech,Electrical And Electronics Engineering,ELECTRICAL AND ELECTRONICS ENGINEERING	48	As per Guidelines Specified by APSCHE	English	30	3
UG	BTech,Electronics And Communication Engineering, ELECTRONICS AND COMMUNICATION ENGINEERING	48	As per Guidelines Specified by APSCHE	English	180	133
PG	Mtech,Civil	24	As per	English	18	9

	Engineering, STRUCTURAL ENGINEERING		Guidelines Specified by APSCHE			
PG	Mtech,Computer Science And Engineering,COMPUTER SCIENCE AND ENGINEERING	24	As per Guidelines Specified by APSCHE	English	18	6
PG	Mtech,Electronics And Communication Engineering, VLSI DESIGN	24	As per Guidelines Specified by APSCHE	English	18	0
PG	Mtech,Electronics And Communication Engineering, EMBEDDED SYSTEMS	24	As per Guidelines Specified by APSCHE	English	9	3
PG	MBA,Mba,MBA	24	As per Guidelines Specified by APSCHE	English	120	51

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	19				30				90			
Recruited	15	4	0	19	24	6	0	30	52	38	0	90
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	20				29				90			
Recruited	15	5	0	20	24	5	0	29	52	38	0	90
Yet to Recruit	0				0				0			

Non-Teaching Staff						
	Male		Female		Others	Total
Sanctioned by the UGC /University State Government						53
Recruited	31		22		0	53
Yet to Recruit						0
Sanctioned by the Management/Society or Other Authorized Bodies						53
Recruited	31		22		0	53
Yet to Recruit						0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				23
Recruited	17	6	0	23
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				23
Recruited	17	6	0	23
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	14	5	0	4	2	0	0	0	0	25
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	1	0	0	21	4	0	51	37	0	114
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	399	0	0	0	399
	Female	0	0	0	0	0
	Others	0	0	0	0	0
PG	Male	69	0	0	0	69
	Female	0	0	0	0	0
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years						
Category		Year 1	Year 2	Year 3	Year 4	
SC	Male	54	25	23	27	
	Female	20	30	22	19	
	Others	0	0	0	0	
ST	Male	13	13	9	11	
	Female	14	7	6	5	
	Others	0	0	0	0	
OBC	Male	95	98	49	48	
	Female	78	74	61	17	
	Others	0	0	0	0	
General	Male	42	60	33	40	
	Female	64	75	58	53	
	Others	0	0	0	0	
Others	Male	0	0	0	0	
	Female	0	0	0	0	
	Others	0	0	0	0	
Total		380	382	261	220	

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>Sree Rama Engineering College (SREC) adheres to the National Education Policy's (NEP) goals by offering top-notch instruction to support the development of our nation's human resources into global citizens. SREC encourages a multidisciplinary approach in both its academic and extracurricular activities so that students can learn about and experiment with various courses from various fields of study. In this approach, in addition to the study of Science, Technology, Engineering, and Mathematics, the prescribed curriculum from JNTUA includes some courses on humanities, and language, such as Management Science, Managerial Economics, and Financial Accountancy, etc. The main views of NEP, such as diversity for all curricula and pedagogy with technology advancements in teaching and learning, supporting rational decision-making and innovation, critical thinking, and creativity, were brought up in a conversation among the faculty members. Students are urged to complete projects that are interdisciplinary or cross-disciplinary. The Institute Innovation Council help students acquire transdisciplinary abilities. Students are also urged to join teams from diverse academic fields to take part in activities like hackathons. Since SREC is affiliated with JNTUA, Anantapuramu it is necessary to follow the curriculum in accordance with the CBCS guidelines established by the university. College will definitely think in providing more Multidisciplinary /interdisciplinary direction, once it becomes autonomous status.</p>
2. Academic bank of credits (ABC):	<p>SREC is already registered on National Academic Depository (www.nad.digilocker.gov.in), all the students were registered in the NAD. Training sessions would be scheduled for faculty members on how to use this facility enabling seamless integration of all stakeholders, we are affiliated to JNTUA and we identify the gaps in curriculum provided by JNTUA and try to enhance the same by encouraging the students to join online courses in NPTEL, Swayam, etc., we also have Add-on/ value added courses to bridge the gap, Reference the location, skill sets of the students. Faculty members try to develop Add-on/ Value added courses to enhance the employability of the students, that can be in any form like theory, practical, project work or Internship.</p>

<p>3. Skill development:</p>	<p>Numerous skill-oriented courses have been added to the curriculum by our affiliated university in response to the growing need for skilled labour in both public and private sector companies. Our college is following both the letter and the spirit of the curriculum set forth by our affiliated institution. For accelerating skill development, add-on programmes and curriculum expansion are essential. With the assistance of highly qualified professionals and resource persons (outside and in house faculty), SREC has carried out personality development, skill development, and life skills-based activities. SREC has a specific plan to follow: To develop workplace - related skills and attitudes through internship and on-the job training. To focus on inclusion of good practices and innovations in teaching-learning Facilitating horizontal mobility of vocational students To collaborate with industries for imparting practical skills and hands-on experience and design industry-relevant courses To introduce new learning methods with ICT Tools - Massive Open Online Courses (MOOC) and flipped classroom for training and empowering teachers Developing and implementing a holistic assessment and evaluation system. To measure the achievements of learning outcomes by outcome-based education system for 360-degree assessment and evaluation of students.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>In the higher education system, we have been estranged from our knowledge history for a few decades. In order to do this, we must re-engage with regional languages, the language in which our knowledge is rooted. New textbooks, curricula, and multimedia content that can be taught in classrooms both on- and off-line must be developed. SREC is organizing International Yoga day, Traditional day, Ugadi and Sankranti festivals every year. International Women's day and other important days related to cultural heritage are organized every year. Imbibing and practicing this knowledge will be the key trait of aspiring leaders of the future we believe. College is now stimulating events on Indian Knowledge System to the students so that they know the importance of what's right, with a logical framework for making ethical decisions. As our college is affiliated to JNTUA, Anantapuramu and is mandatory to implement the curriculum as per the Choice Based Credit System (CBCS) prescribed by</p>

	<p>it. As the SREC is situated in a rural area, students with lack of communication skills in English are getting admitted. Hence our faculty is in the habit of using bilingual mode where ever necessary particularly while explaining concepts to enrich their level of understating. More efforts will be made in the direction even in the years to come.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>The institute has effectively implemented the Outcome Based Education (OBE). The vision, mission, PO, PSO & CO of various programs are framed to support OBE. The PSO's are prepared by the departments for their respective program. The course outcomes are prepared for each course offered by selecting an action verb using Bloom's Taxonomy by the affiliating university. The PO, PSO, CO are published at: • Institute website • Department website • Departmental notice board • IQAC chamber • Principal & HOD's chamber, faculty rooms • Class room, seminar hall, corridor • Library • Course file, laboratory file, project file • Laboratory notice board To sum up, learning outcome of the programs and courses are discussed with students at the beginning of the courses and the PO, PSO and CO's are incorporated in the curriculum for display on university and college website which can be accessed by all the stakeholders namely students, employer and alumni.</p>
<p>6. Distance education/online education:</p>	<p>As the college is affiliated to JNTUA, Ananthapuramu, our college has implemented the online courses prescribed as part of the curriculum. Our students are pursuing online courses through online mode through National Schemes like SWAYAM NPTEL Course Era, Udemy etc. The credits obtained through these online courses are being considered for the award of their final degree. Our college is encouraging faculty members to take online classes after the college hours to enrich knowledge among students. Our college has offered full support in their endeavor to provide education at the doorsteps of students. During COVID-19 pandemic our college switched over to virtual mode of teaching through various applications viz Google Meet, Google Classrooms, Canvas, kahoot etc. This institution is already prepared, especially during COVID-19 pandemic situations and teaching learning process through different online modes. Our college is not approved to run the course on distance mode,</p>

hence we are not offering any course on distance mode.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes, Electoral Literacy Club (ELC) has been set up in the College. The primary objective of ELC is to sensitize the student community about democratic rights which includes casting votes in elections.
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Yes.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	Prior to the setting up of Electoral Literacy Club (ELC), NSS cell was conducting the electoral literacy related activities. Voter awareness program was conducted by our students during the previous general election time. Republic day, Independence day, Constitution day and National voter's day are being conducted regularly to sensitize the students about democracy and the importance of Vote in democracy.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.	Voter awareness program was conducted by our students during the previous general election time. Republic day, Independence day, Constitution day and National voter's day are being conducted regularly to sensitize the students about democracy and the importance of Vote in democracy.
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	The 2nd, 3rd and 4th year students who crossed 18 years of age are enrolled as voters. And the students admitted into first year B.Tech, upon the attainment of 18 years age, will be guided to enroll as voters.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1709	1495	1285	1277	1192

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 282

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
140	146	180	165	158

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
384.55	86.47	155.60	154.17	160.10

File Description	Document
Upload Supporting Document	View Document

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Sree Rama Engineering College (SREC) approved by AICTE and affiliated to Jawaharlal Nehru Technological University, Anantapur, follows strictly the curriculum and regulations prescribed by the university. This curriculum is revised periodically by the university Board of Studies. The university publishes the academic calendar for both the semesters. Academic calendar provides details regarding date of commencement of academic session, duration of semester, period of internal assessments and semester end examinations in an academic year.

SREC adheres strictly to the academic calendar pertaining to curriculum, regulations and Continuous Internal Evaluation as published by JNTUA University. In addition, the institution and departments design their own academic calendars in tune with JNTUA Academic calendar. In the beginning of every semester academic calendar is framed by the Institution in accordance with the academic calendar of JNTUA, Ananthapuramu. The allocation of each course to the faculty members is based on their willingness and finalized by HoD on the basis of faculty's technical skill, competency level, experience, students' feedback and academic performance. The faculty member will prepare lesson plan and mode of delivery in line with the schedule of the academic calendar.

Academic calendar is prepared by a team of senior Faculty members of the Institution in consultation with Principal and HoDs. In accordance with the Institution academic calendar, the HoDs of concerned departments prepare the academic calendar of the department by incorporating the various academic, co-curricular activities and meetings to be organized in the department like faculty meeting with HOD etc. 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 and at all locations.

Schedule for CIE tests /exams is announced and displayed in advance by Principal. The College has an Exam Cell (EC) comprising of a senior faculty member and a team of teaching staff. The EC holds the responsibility for all exam related activities. This is done through coordinated efforts of the faculty members. The question papers are set to test various cognitive levels of the student as per Bloom's Taxonomy. A detailed scheme of evaluation is prepared for every course prior to start of evaluation of the answer scripts.

A timely evaluation of answer scripts for all courses is ensured as per the directions of Principal. The answer scripts are issued to the students to verify the scheme of evaluation with the marks awarded by the course handling faculty members. Complete transparency is ensured while returning the answer books to the students and the key with scheme of valuation is informed to the students. Finally the marks are entered in the institution ECAP portal by the faculty member to display the performance of students

in the internal assessment test. The entire evaluation system is smoothly managed by Exam Cell with internal test result analysis.

File Description	Document
Upload Additional information	View Document

1.2 Academic Flexibility

1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response: 66

File Description	Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	View Document
Institutional data in the prescribed format	View Document

1.2.2

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 99.57

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1709	1465	1285	1277	1192

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Response:

In order to integrate the cross cutting issues relevant to Gender, SREC has constituted various committees such as Women Empowerment Cell and Grievance Redressal committee. These committees are formed to promote gender equity and also deal with related issues of safety and security of female students, women staff and faculties and employees. Various programmes like "Elimination of Violence against Women", "International Day of the Girl Child", "Gender Equality Day", "The role of Mother in our Society" events were organized through Women Empowerment Cell.

In order to integrate the cross cutting issues relevant to environment and sustainability, JNTUA University has included the following different types of courses in the curriculum to develop awareness among students about environment and Sustainability.

Universal Human Values; Environmental Engineering – I; Environmental Engineering Lab; Environmental Engineering Lab; Socially Relevant Project; Constitution of India; English Language Skills; Research Methodology; Socially Relevant Project; Environmental Engineering; Environmental Engineering Laboratory; Universal Human Values; Environmental Science; Soft skills; Universal Human Values; Soft Skills; Environmental Science. List of courses along with detailed syllabus is attached.

Many Projects are undertaken by final year students relating to environmental issues like climate change, water pollution, air pollution, rain water harvesting, green concrete etc. Sustainability issues such as use of natural resources in building construction, materials, energy conservation etc. are also dealt with projects. List of projects are attached.

In order to sensitize students about the environment and sustainability issues, a number of activities such as seminars, workshops, guest lectures, industry and field visits were organized for students of all programmes. Environment Day, Earth Day, World Ozone Day, World Water Day are celebrated every year, where students actively participate. Workshops and seminars on various aspects of environment sustainability are also organized periodically.

In order to integrate the cross cutting issues relevant to human values and professional ethics, JNTUA University has included different types of courses in the curriculum. This creates awareness on business ethics and human values among students. As an integral part of student engagement in social activities the college also mandates that all students enrol as NSS Volunteers. It aims at inculcating values, ethics and socially-responsible qualities. Students organize awareness campaigns and Health check-up camps at the adopted villages.

File Description	Document
Upload Additional information	View Document

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 42.07

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 719

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System**1.4.1**

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response: A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 67.34

2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2021-22	2020-21	2019-20	2018-19	2017-18
601	525	408	461	399

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
663	708	762	720	702

File Description

Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 54.92

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2021-22	2020-21	2019-20	2018-19	2017-18
169	162	155	150	90

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
248	262	284	266	262

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	View Document

2.2 Student Teacher Ratio

2.2.1

**Student – Full time Teacher Ratio
(Data for the latest completed academic year)**

Response: 12.21

2.3 Teaching- Learning Process

2.3.1

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

Sree Rama Engineering College follows various student centric methods to enhance Teaching-Learning, which include: Lectures, class presentations, Tutorials, Laboratory experiments, written assignments, case studies etc., Apart from these, departments conduct a number of activities like seminars, debates on current issues, group discussions and quizzes through Professional bodies. These activities develop the stage courage, expression skills, thinking abilities, organizational skills, leadership qualities etc., among students. Student's enthusiasm, involvement and willingness to participate makes the teaching-learning process more student-centric.

Experiential learning:

- Guest/Expert Lectures by experts from industry and institutions, are arranged for students to enhance their knowledge in various emerging topics.
- LMS tools like Canvas, Google Classroom, Moodle etc., are used based on the level of perseverance to enhance students' self-teaching-learning activity.
- Workshops conducted on emerging technologies and tools such as LabView and MATLAB
- Field trips, Internships and Industrial Visits are organized to enhance students' learning experiences.

Participative Learning:

- Students are actively involved in the development of Projects and Innovative Solutions for Real-Time Systems by encouraging students to participate in Smart India Hackathon.
- Peer level Tutoring -Recognizing the efficacy of peer learning, as well as the capability of those students with good communication skills batches, are formed among the students and transfer of knowledge through such student team members, is encouraged and facilitated.
- Students' professional body activities are conducted at regular intervals to promote the participative learning of students.
- Professional bodies like ISTE, CSI, IETE, ISET, IEEE, HMA, Research Stars etc. are available in the institution and hosts various activities or events which are organized by the students. Institution helps in improving their leadership qualities while participation by the students in similar events arranged in other colleges improves their interpersonal skills.

Problem Solving Learning:

It is a teaching method in which complex real-world problems promote student learning of the concepts and principles. It can promote the development of critical thinking, problem-solving abilities, and communication skills. It can also provide opportunities for working in groups, get oriented towards research and life-long learning.

Assignments and quizzes: Assignments and quizzes are conducted after completion of each unit.

Case Study Analysis and Discussion: The open ended problems are presented in form of case studies. It helps students feel connected to life.

Think Pair Share: It is a collaborative strategy commonly implemented in classrooms.

File Description	Document
Upload Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response: 100

2.4.1.1 Number of sanctioned posts year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
140	146	180	165	158

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	View Document

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response: 11.91

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
23	18	19	17	17

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

As SREC is affiliated to JNTUA, Ananthapur, it follows the university norms and academic regulations. The regulations include internal and external assessment procedures as well as minimum attendance requirement for end semester examinations. The newly admitted students as well as parents are familiarized with continual assessment procedure in the orientation programme.

JNTUA R-20 Regulations:

Continuous Internal Evaluation:

- For theory subjects, during the semester, there shall be two midterm examinations. Each midterm examination shall be evaluated for 30 marks of which 10 marks for objective paper with 20 objective type questions (20 minutes), 15 marks for subjective paper (90 minutes) and 5 marks for assignment.
- Objective paper shall be set for maximum of 20 bits for 10 marks. Subjective paper shall contain 3 either or type questions (totally six questions from 1 to 6) of which student has to answer one from each either-or type question. Each question carries 5 marks.

Final mid semester marks shall be arrived at by considering the marks secured by the student in both the mid examinations with 80% weightage given to the better mid exam and 20% to the other.

For practical courses, there shall be a continuous evaluation during the semester for 30 sessional marks and end examination shall be for 70 marks. Day-to-day work in the laboratory shall be evaluated for 15 marks by the concerned laboratory teacher based on the regularity/record/viva and 15 marks for the internal test. The end examination shall be conducted by the concerned laboratory teacher and a senior expert in the subject from the same department.

The project report shall be evaluated with an external examiner. The total marks for project work 200

marks and distribution shall be 60 marks for internal and 140 marks for external evaluation. The supervisor assesses the student for 30 marks.

SREC ensures that there is complete transparency in the internal examination related grievances. The internal examination schedules are prepared as per the academic calendar and are informed to the students well in advance.

The internal examination answer sheets are evaluated by course handling faculty within three days from date of the examination. The assessed internal test papers are shown to the students for self-assessment.

The general grievances expressed by the students with regard to internal examinations are:

- Discrepancy in totaling of the marks
- Wrong posting in mark sheets
- Discrepancy in totaling of aggregate internal marks
- Wrong options in objective question paper

Often, some of the issues such as discrepancies in evaluation or totaling, the students bring it to the notice of the faculty that is resolved immediately. Any student who is still not satisfied with the assessment and award of marks may approach the concerned HOD. The HOD may intervene and seek opinion of another faculty handled the course.

The institute follows transparent assessment system by displaying the students' performance in the respective departmental notice boards. If the student is still dissatisfied, he/she can represent his/her grievance to the Principal for necessary action.

File Description	Document
Upload Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

A successful outcome-based curriculum involves aligning the individual Course Outcome (CO) with the intended Program Outcomes (POs) and with Program Specific Outcomes (PSOs). The CO-PO mapping paves the way to examining the extent to which the outcomes are being addressed and assessed in the curriculum.

Each department has defined its own PEOs and PSOs in alignment with Program Outcomes described by NBA.

Three to Six Course outcomes of each course are formed by the JNTUA university and department faculty members will map the COs with PSO and PO. PO, PSO & COs are displayed in the website and that too department wise. The department committee consisting of the subject experts and Head of the department will conduct meeting and the faculty members will put forth the course outcomes for their subjects and fine tune them before the beginning of each semester.

The COs are included in the logbooks and entered in the intranet portal of the institution along with mapping of COs with POs and PSOs. COs are disseminated to the students on the introductory classes of each course.

Also COs are recalled by the faculty members during classes before the beginning of each unit in the subject. Course Outcomes are specified in the descriptive test question papers.

File Description	Document
Upload Additional information	View Document

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

The process of attainment of COs, POs and PSOs starts from writing appropriate COs for each course of the program from first year to fourth year in a four-year engineering degree program. The Course

Outcomes are written by the respective faculty member using action verbs of learning levels suggested by Revised Bloom's Taxonomy. Then, a correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high). A mapping matrix is prepared in this regard for every course in the program including the elective subjects. The written course outcomes and their mapping with POs are reviewed by IQAC before they are finalized.

In the Outcome Based Education (OBE), assessment is done through one or more than one processes, carried out by the institution that identify, collect and prepare data to evaluate the achievement/attainment of Course Outcomes (COs).

Assessment tools are categorized in two methods, to assess the Course Outcomes (COs).

They are:

1. Direct Assessment Methods and 2. Indirect Assessment Methods.

Direct Assessment Methods:

- Two Internal/midterm Assessment Tests
- Day- to- Day Lab evaluations
- Tutorials and Assignments
- Project work for final year students
- Seminar for third year students
- CVV
- Semester-End Examination

Target levels or Rubrics for attainment of Course Outcomes (COs) are set by the Department Academic Committee. After the course is delivered and examination results are announced, actual attainment of COs are determined through Faculty Course Assessment Reports (FCARs). If the attainment is not reached the target, then the course coordinator will submit the action plan to attain the target level in the forthcoming year.

The IQAC and HOD continuously monitor to ensure the attainment targets for all the courses in the department. If the attainment is reached for a course then the target level is increased for the next offering of the course or by planning suitable improvements in the teaching-learning process, to increase the actual attainment, so as to reach the desired target.

File Description	Document
Upload Additional information	View Document

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response: 84.46

2.6.3.1 Number of final year students who passed the university examination year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
335	277	223	271	204

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
405	305	255	329	257

File Description	Document
Institutional data in the prescribed format	View Document
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response: 3.96

File Description	Document
Upload database of all students on roll as per data template	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 0

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	0	0	0

File Description

Document

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

SREC has created an ecosystem for promoting innovation, entrepreneurship and other initiatives like creation and transfer of knowledge by collaborative action of all departments in a multidisciplinary approach, As part of this initiative, National level students technical symposium termed as “Avishkaar” were conducted every year as enthusiasm towards presentation of different trending topics results in innovation and its practice. Different entrepreneurship activities are conducted for nurturing innovative ideas from the students. Faculty is encouraged to enhance their research activities and make publications in reputed journals. Some of the faculty members have published books which serve as textbooks for syllabus of few subjects as a part of initiative for knowledge creation and transfer. The main aim of SREC is to promote creative thinking of the students and utilize their innovative ideas for the benefit of society keeping in view of the importance of technology. With a combined action plan of all departments, every initiative to encourage the participation of students in various technical exhibitions is taken to nurture their technical expertise. Every year add-on courses and industrial visits were organized for students. The students of SREC has participated in Smart India Hackthon and other events organized by premiere institutions .

Patent Published by Faculty:

S. No.	Name of the Faculty	Title of the Patent	Patent Application No.	Patent Filed date	Patent published date	Status
1.	Dr. M. Reddi Babu	Silicon coated nanoparticles for a solar cell composition	202341000517A	04.01.2023	06.01.2023	Published
1.	Dr. M. Reddi babu	Nanochip and Biosensor based precision farming	202341005697	28.01.2023	03.02.2023	Published
1.	Dr. B. Lalitha	A Data Recovery system for IOT environment and method thereof	202241050478	04.09.2022	09.09.2022	Published
1.	Dr. A. Muni Sankar	Methods and systems for providing integrated solutions to IoT based power grids	202121043296A	24.09.2021	29.10.2021	Published

File Description	Document
Upload Additional information	View Document

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 33

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
7	5	7	7	7

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.41

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
38	40	37	0	0

File Description	Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.3.2

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.06

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
9	8	0	0	0

File Description	Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.4 Extension Activities

3.4.1

Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

The institution has been organizing a good number of extension activities that are carried out in the neighbourhood community. SREC encourages the students to interact with the neighbouring communities to explore the opportunities for involvement in social work. It helps in developing interpersonal relationships, leadership qualities, organizing skills, understanding the life of under privileged people, help society in times of need, and inculcate moral and human values among the students.

The co-curricular, extracurricular, and relevant extension activities are planned in such a way that the students have ample opportunities to expose themselves to societal issues thereby promoting them to extend their domain knowledge and practical skills on a real-time basis.

The institution has been organizing the following activities for the holistic development of students.

National Service Scheme: The activities about community service under the scheme promote the students' attitudinal development in acquiring social skills such as empathy, respect, and teamwork.

Health camps: The students get the knowledge of different ailments, conditions and have the possibility of identifying a problem, formulating a problem, in making devices or computation tools or innovative methods for diagnosis and/or cure.

Tree plantations and environmental issues: The importance of man co-existing with nature and the need for a sustained approach to preserve the ecosystem becomes a serious challenge to engineers too besides policymakers and other scientists. The development of new technologies, systems, and products in compliance with environmental standards is the need of the day.

Digital literacy: The students get enough opportunity to identify the gaps between technology development and end-user application. This entails the students to create solutions tailor-made to the need of the customers and clients

Hygiene and cleanliness: Pollution and untidy environs are the places where we breed communicable diseases as well project a bad picture to the people who are interested to collaborate with. This becomes an important dimension for engineers to innovate tools, devices, and methods to sustain a clean

environment.

Outreach activities: The students and the faculty of the departments actively engage with the college neighbourhood to transfer the domain knowledge to the development of society. It is perceived as an opportunity to identify needs besides mere knowledge transfer. World water awareness program is also organized to bring about awareness of water conservation and minimization of water wastages, for the benefit of the neighbourhood communities. International Yoga day is celebrated for the mental and health benefits and its sustainability to human beings. Swachh Bharath, blood donation camps, health check-up camps, flood relief camps, Off-Line/Online electoral registration process campaigns, etc. are also organized to make the neighbourhood community aware of government initiatives and also to make them adopt a good lifestyle.

All the activities are planned and conducted in such a way that they become relevant to the program domain and contribute to the students' holistic development. JNTUA R19 regulations has introduced Socially Relevant Project to the students and the students of Sree Rama Engineering College has completed the Socially Relevant Project.

File Description	Document
Upload Additional information	View Document

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Sree Rama Engineering College has received the following awards from various agencies as listed below

S.No.	Name of the Activity	Name of the Award	Awarding Agency	Year
1	AICTE FIT India Challenge 2021-22	AICTE FIT INDIA Challenge in Category – III	AICTE	2021-22
2	The Institution has successfully formed the Swachhta Action Plan Committee and constituted the working groups Post COVID-19 for Sanitation & Hygiene, Waste Management, Water	Recognized Swachhta Action Plan Institution	Mahatma Gandhi National Council of Rural Education Department of Higher Education, Ministry of Education Government of India	2020-21

	Management, Energy Management and Greenery			
3	75 crore Surya Namaskar	75 crore Surya Namaskar	Government of India	2021-22
4	Distribution of Food, Lemon and Coconuts for the needy people	Appreciation award	Rastra Kavula Kalakarula Vruddasramam (Old Age Home), Punganur, Chittoor District	2021-22, 2020-21, 2019-20, 2018-19, 2017-18

File Description	Document
Upload Additional information	View Document

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 44

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
16	3	7	9	9

File Description	Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 10

File Description	Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

Sree Rama Engineering College has excellent infrastructural facilities spread over 10.01 Acres of land with 18310 Sq.mts built up area. The Institution has 49 laboratories, 37 classrooms, 7 tutorial rooms, 2 Seminar Halls, 1 Drawing Hall, 3 Workshops and 1 Auditorium as per the AICTE guidelines. All the classrooms, seminar halls and many of the Laboratories are equipped with ICT facilities. All the laboratories have prescribed equipment as per JNTUA Curriculum from basic tools to advanced research oriented equipment and are well maintained.

Computer laboratories have up to-date PCs with installed licensed software as well as open source software. 3.19:1 Student Computer Ratio is being maintained in the institute. The resources of each department are shared by all the other departments in case of necessity. SREC has a Computer centre, comprising 11 computer labs with about 390 computers. All the departments make use of computer labs to conduct tests like online test, aptitude test and so on.

Classroom Facilities: The Institution is provided with ventilated eco-friendly classroom facilities. Each class is provided with black and green board and stage with a sufficient number of LED lights and fans. The Classrooms have LCD projector and Wi-Fi Connection for ICT Based Learning.

Laboratory Facilities: Institute has modern, state of the art, well - equipped laboratories with the latest equipment and required software for the entire programme. For safety first aid kit, rubber mats, earthing and fire-fighting equipment is installed. Labs are suitably designed to accommodate and run heavy machinery. In all laboratories, elaborative charts are available for teaching and learning activities including instructions about Do's and Don'ts' in the laboratory premises. Additional Experiments beyond the prescribed JNTUA curriculum are carried out in most of the labs to fulfill the curriculum gaps. Multiple power supplies like UPS, ECO Genset and EB power are suitably provided for all the lab spaces.

Computing Facilities: SREC provides hi-configured computer facilities with state of the art computer lab and research centre. A high speed optical fibre network enables students to access a wide range of services across the campus including all computer labs. The Institute has 840 MBPS internet connectivity throughout the campus which facilitates the students to enhance their knowledge on par with industry requirements.

General Infrastructure: The academic infrastructure is complemented with Chairman's Lounge, Principal chambers, Administrative office, Examination Cell, IQAC Cell, Institute Innovation Council, Training and Placement office, HoD and faculty cabins, central stores, canteen, First Aid and Sick room, girls and boys common rooms, Alumni cell, NSS office, conference room, Meditation Hall, yoga center and a full-fledged canteen.

SPORTS AND GAMES FACILITIES: Quality physical education programs are needed to increase the physical competence, health-related fitness and self-responsibility. The sports department is headed by a full time Physical director who coordinates all the sports activities. The Institution has 5 acres playground for outdoor sports like Athletics, Cricket, Hockey, Football, Volleyball, Basketball indoor stadium with shuttle badminton court, table tennis, chess, and carom are available to promote sports and cultural events. College teams are taking part in JNTUA Zonal level competitions and other intercollegiate competitions. Sports event competitions are conducted in interdepartmental level in an academic year and the winners and participants are awarded in Annual college Day celebration to encourage them.

File Description	Document
Upload Additional information	View Document

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 10.79

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
62.6	4.7	6.9	21.4	5.9

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

The Library of SREC is the focal point of all user community. The primary objective of the library is to support the educational and research programmes of the Institute by providing physical and on-line access to information, consistence with the present and the anticipated academic needs.

The Library has a carpet area of 558 Sq Mtrs. The library is well equipped with a reading capacity of 150 readers and is also Wi-Fi enabled. Library users have easy access to photocopying facilities. The library Housekeeping operations are fully automated i.e. counter Service, Issues and returns, Technical Service: Classification and Catalogiung (OPAC) by using the Library Software AUTOLIB developed by AutoLib Software Systems Chennai Tamilnadu. Generation of Barcodes to the books by using barcode software. The Faculty, Non-Teaching Staff, and Students of Sree Rama Engineering College are issued a single barcode for Library Membership cum College Identity card. The users of the library can use the same Identity card for borrowing books.

The Library has various Text Books, Reference Books, e-books, Journals, Magazines, e-journals, NPTEL video lessons related to Engineering and allied subjects. Library has a collection of fascinating books which includes Encyclopaedia, Hand books, Dictionaries, GATE and competitive examination books and videos that support the content beyond syllabus. The library has a huge collection of 25,400 volumes and around 4950 Titles.

The library subscribes NPTEL (National Programme on Technology Enhanced Learning) (Open source online video lectures); E-Books: 103678; E-Journals:13148

The Digital Library has installed around 20 systems for providing digital services and also made provision for students to refer previous semester question papers to prepare for their semester examinations.

File Description	Document
Upload Additional information	View Document

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

The Institute is committed to providing state-of-the-art IT infrastructure and services. With the growth of users, IT services and increasing internet bandwidth demand, the institution has scaled up the switching capabilities and implemented latest managed through optical fibre cables and Wi-Fi access. The Institute has high-end core switches and servers. The upgradation of computer systems is taken up on periodically. The printers and scanners are also upgraded with new additions to the laboratories, office, library and departments. The college annually purchases/upgrades and replaces or adds a fleet of computers, hardware's, etc as per the requirements. The IT infrastructure is continually upgraded.

The bandwidth has been progressively increased from 16 Mbps to 840 MBPS over a period of 14 years to suit the demands. For ease of access, all blocks have been enabled with Wi-Fi. All the seminar halls have been installed with LCD projectors. Biometric scanner based attendance capturing system is upgraded for faculty members.

Description on IT facilities:

The IT facilities available in our college can be summarized as follows,

LAN Facility:

There are 27 data network switches (Giga byte) and 24 CCTV cameras.840 MBPS of internet connectivity is shared across the campus. Server configurations in data center There are 01 servers with Xeon E-5 version-2, 16 GB RAM, 1.0 TB hard drive, which are served as Domain Controller, student biometric server, faculty biometric server and applications servers. Back up device-2TB for critical server back up Work station 535 desktops are provided to all department labs with configuration of Intel core i3, i5 (4th and 8th generation) 4GB and 8GB RAM, 320 GB and 500 GB, 750 GB and 1 TB hard disks with LAN connectivity.

Software:

Windows 2012, 2016, 2019 server, TP Link Firewall, Micro tek router board and also use open source operating systems such as Fedora, Ubuntu.

Printers:

11 Laser jet printers, 1 Xerox centers, 6 Xerox Machines (Print and Scan) and 7 scanners are provided across the campus for academic and administrative purposes.

Updates and up gradation:

Updates are maintained regularly through WSUS (Windows server Update service) and windows defender anti viruses, Windows OS firewall are updated through cloud portal.

Wi-Fi Facility:

9 Extendable Wi-Fi access points are placed in various places like library, corridor, Labs, Hostels, Canteen and Outdoor. Wi-Fi access is provided to all the students which is monitored and controlled by windows server at the IT department for secure content access. All access points are routed to a Wi-Fi controller in the Data center where configuration and updates are maintained in a centralized fashion.

File Description	Document
Upload Additional information	View Document

4.3.2

Student – Computer ratio (Data for the latest completed academic year)

Response: 3.19

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 535

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 81.26

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
248.3	81.52	148.61	132.77	153.35

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 69.23

5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1332	851	990	851	793

File Description

Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

1. Soft skills

2. Language and communication skills

3. Life skills (Yoga, physical fitness, health and hygiene)

4. ICT/computing skills

Response: A. All of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	View Document
Institutional data in the prescribed format	View Document

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 100

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1709	1495	1285	1277	1192

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4

The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

- 1.Implementation of guidelines of statutory/regulatory bodies**
- 2.Organisation wide awareness and undertakings on policies with zero tolerance**
- 3.Mechanisms for submission of online/offline students' grievances**
- 4.Timely redressal of the grievances through appropriate committees**

Response: A. All of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	View Document
Proof for Implementation of guidelines of statutory/regulatory bodies	View Document
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 53.81

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
194	141	136	155	129

5.2.1.2 Number of outgoing students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
361	272	228	305	237

File Description	Document
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	View Document
Institutional data in the prescribed format	View Document

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 1.63

5.2.2.1 Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)

2021-22	2020-21	2019-20	2018-19	2017-18
9	3	0	0	1

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

5.3.1

Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 9

5.3.1.1 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 wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
2	3	3	0	1

File Description	Document
list and links to e-copies of award letters and certificates	View Document
Institutional data in the prescribed format	View Document

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 22.8

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
24	18	26	21	25

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1

There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

SREC has a registered Alumni Association in the name of “Sree Rama Engineering College Alumni Association” with Registration No. 257 of 2022, The Registrar of Societies, Sri Balaji Registration District, Andhra Pradesh.

The Office bearers of the association are:

- 1.Mr. Aravind Kumar Reddy Mannem, President (Director, SRET)
- 2.Dr. Jayachandra Kuncha, Vice President (Principal, SVET)
- 3.Ms. Yogitha. B, Secretary (Assistant Professor, Dept. of ECE)
- 4.B. Bala Krishna, Treasurer (Associate Professor, Dept. of CE)
- 5.G. Niharika, Joint Secretery (Assistant professor, Dept. of ECE)

Alumni of our college are invited during various occasions and organize an interaction session with students. During Alumni interaction, our alumni offer their support to our students in building a bridge between college life and career life. The fresher graduates are made proactive to face the current challenges of competitive professional world.

These alumni interactions at regular intervals create a bridge between our alumni and our next generation engineering students. It helps in creating an opportunity for alumni, current students and faculty to interact and bond. Alumni members focus on discussing about industry trends, opportunities and also develop synergistic plans to achieve their vision

Alumni Contribution to SREC

- Sharing their industrial expertise and technology updates through guest lectures to provide job ready skills to the students.
- Participation in student interactions when Alumni from India and abroad visit their home town.
- Providing references for student placements.
- Endorsing the institute and recommending it to their relatives and friends.
- Suggestions to improve the effectiveness of the curriculum.
- Improving institute industry interaction by bringing industrial experts to interact with our students.
- Providing employment opportunities to the students in alumni enterprises.
- Giving career counseling to develop awareness and confidence in students.
- Donating books to the library to meet the academic needs of the students.
- Creating awareness about startups and entrepreneurship.
- Motivating the students with their success stories, challenges faced and coping with setbacks.
- Contributing towards the welfare of the Alumni members

File Description	Document
Upload Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

The governance of the institution is inspired by the vision statement and guided by the mission statement and evolves a perspective plan to govern and manage its affairs.

Vision:

Sree Rama Engineering College strives to be one of the best educational institutions in the country by transforming the students into multifaceted individuals with a penchant for academic excellence in the field of Engineering & Management with moral & ethical values and moulding them as an empowered citizens to meet the global requirements

Mission:

- To be a student-centric campus with innovative, creative learning by a collaborative approach with all the stakeholders for offering an industry specific course apart from the regular curriculum.
- To create a conducive environment for students towards research, innovation with state-of-the-art infrastructure facilities.
- To develop global leaders with human & ethical values by continuous mentoring and nurturing them to acquire their dreams

Organization Chart:

<http://sreerama.ac.in/src/wp-content/uploads/2023/06/Organization-Chart.pdf>

The Governing body, constituted as per the norms, is the Principal Executive Body of the Institution monitors the operations of the institution. All activities of the Institution are approved for implementation and also thoroughly reviewed and evaluated by governing body. The principal of the institution is the member secretary of the governing body.

The institution is practicing decentralization and participative management in all its activities. The Governing body is the highest decision-making body which formulates/ amends rules and regulations, policies, and delegates powers, responsibilities to various Committees, Principal, Director, Heads of the Departments [HoDs], and provides necessary support for the overall development of the institution.

The Principal is the Head of the Institution and is empowered with sufficient authority and powers for

smooth functioning of day-to-day activities. All the departments of the college function under the direct supervision of the Principal. Heads of the Departments (HODs) look after the day-to-day activities and functions of various departments. The Principal, as a representative of the college, guides all Director, HODs, faculty members and other staff in all academic and administrative matters.

The Principal, Director, HODs and faculty members are actively involved in executing the action plans and policies for fulfilment of the Vision and Mission of the institution. To achieve this, different committees have been constituted with senior faculty members as conveners in the college and entrusted with the responsibility of implementing the programs and policies and ensure these committees function effectively for achieving the goals of the institution.

The college has an Internal Quality Assurance Cell (IQAC), which meets at regular intervals and plays a crucial role in implementation of institution's quality plans.

File Description	Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

Organizational Structure:

<http://sreerama.ac.in/srec/wp-content/uploads/2023/06/Organization-Chart.pdf>

SREC has a well-defined organization structure. The Management reviews and evaluates the academic progress, administrative processes and co-curricular and extension activities of the College.

The Governing Body steers the organization's management systems, their implementation and continuous improvement. IQAC reviews the academic and administrative functioning of the College. Finance Committee approves proposals for the development of infrastructure and scholarships, on the recommendations of the IQAC.

The Principal is responsible for the functioning and growth including administrative, academic, co curricular and extra-curricular activities of the college. IQAC of the college is involved in developing a quality system for conscious, programmed action to improve the academic and administrative performance of the College.

At the department level, the Heads of the departments are wholly responsible for coordinating all

departmental academic activities. Faculties are accountable / responsible for the academic and curricular development of the students. Staff members of the departments are made as members of various committees. Students are involved as active members of the committees.

Functions of Various bodies/Committees: For effective functioning of college activities, many committees are identified. Every committee consists of a chairperson/Convener, staff and student members. The functioning of every committee in the Institution is well defined. All Chairpersons/Conveners report to the Principal who monitor the effective functioning of these committees.

Service rules: All the staffs are oriented about the Service rules available in the institution. Faculties are educated about conditions of service, and responsibilities, discharge of duties, increments, kinds of Leave, code of conduct, financial support for attending FDP/workshops/conferences, incentive for achieving academic excellence, publication of papers in reputed journals, grants received for projects from funding agencies, revenue generated through consultancy and others.

Recruitment: The qualification, teaching experience and other eligibility for recruitment is as prescribed by state Government / UGC / AICTE/affiliating University. Selection of the candidate shall be by a selection committee.

Promotion: Promotion is on the basis of performance in the Institution, and is based on availability of vacancies. All policies and conditions are clearly stated in the Administrative and service Manual of the Institution.

Grievance Redressal Mechanism: Sree Rama Engineering College address genuine complaints, issues and difficulties of the Stakeholders at individual as well as at college level. Students are encouraged to use the Suggestion/ Feedback methods (both Off line and On line) to express constructive suggestions and grievances. Grievance redressal committee resolves complaints/ grievances with sensitivity and confidentiality by meeting at regular intervals or as and when required.

File Description	Document
Provide Link for Additional information	View Document

6.2.2

Institution implements e-governance in its operations

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

Teaching Staff:

1. Eligible for 15 days of Casual Leave per annum.
2. Eligible for 15 days of vacation leave at the end of every academic year
3. Eligible for 10 days Medical leave/Special Leaves
4. Entitled for Earned Leaves as per norms
5. Eligible for Academic leave for pursuing higher studies
6. Financial support is extended for attending seminars / paper presentations / workshops etc.,
7. MOU with Sankalpa Hospital
8. Covered under Group Medical Insurance scheme
9. Free transport facility is provided in college buses to commute to the college
10. Subsidized canteen facility in the institutions' canteen.
11. Tution Fee reimbursement/concession to the children
12. Interest free Salary advance for purchase of Laptops, Vehicles etc.

Non-Teaching Staff:

1. Eligible for 15 days of Casual Leave per annum.
2. Eligible for 7 days of vacation leave at the end of every academic year
3. Eligible for 10 days Medical leave/Special Leaves
4. Entitled for Earned Leaves as per norms
5. Eligible for Academic leave for pursuing higher studies
6. Financial support is extended for attending workshops
7. ESI
8. MOU with Sankalpa Hospital
9. Free transport facility is provided in college buses to commute to the college

10. Subsidized canteen facility in the institutions' canteen.
11. Tution Fee reimbursement/concession to the children
12. Covered under Employee Provident Fund
13. Interest free Salary advance for purchase of Vehicles etc.

SREC uses a transparent Performance Appraisal System for teaching staff which includes evaluation of each faculty based on the following metrics

- Teaching, Learning and Evaluation
- Administrative work
- Student Activities
- Professional Upgradation
- Research Activities

The Self-appraisal forms are evaluated and necessary action is taken on the faculty.

File Description	Document
Upload Additional information	View Document

6.3.2

Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 9.89

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
20	20	14	19	5

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	View Document
Audited statement of account highlighting the financial support to teachers to attend conferences / workshop s and towards membership fee for professional bodies	View Document

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response: 50.31

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
184	119	123	59	79

6.3.3.2 Number of non-teaching staff year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
76	76	76	52	52

File Description	Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document

6.4 Financial Management and Resource Mobilization

6.4.1

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

The College being a self-financing institution, the source of funds is mainly from the Tuition fee paid by different category of students admitted to the institution. In case of shortage of funds during the expansion or renovation of buildings, purchase of major equipment, SRET always supports by providing required finance to the institution.

SREC managed by Sree Rama Educational Trust (SRET) ensures that both internal and external audits are conducted on all the financial transactions of the institution to make sure that all the transactions are done in a systematic and orderly manner without any deviation from the laid down financial policies and procedures.

SRET has also appointed a reputed agency, G. Ravindra Reddy & Co. Chartered Accountant for conducting external audit in the institution. This external audit team functions in coordination with the Principal and HoDs of the institution and conducts a detailed audit on all the financial transactions quarterly and submits the audited Income and Expenditure statement and also Balance Sheet once in a financial year.

The aim and objective of External audit is to ensure that all the financial transactions are carried out within the set policies and procedures of the trust. This way the audits ensure that all the financial functions are carried out in the interest of the institute and are directed towards the prosperity and development of the institute.

File Description	Document
Upload Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

IQAC Contribute, Monitor and Evaluate the Teaching and learning processes. Feedback from the stakeholders (students, alumni, Employers, research organizations). Monitoring of course files, lecture schedules, course plans by random sampling verification of mid test analysis. Arrangement of special classes for weak students during evening hours. Identify the new processes and recommending the same for improving the quality.

The following innovative processes are adopted by the institution in teaching and learning:

- Promoting the usage of ICT.
- Implementing OBE.
- Mapping course outcomes/instructional objectives and program educational objectives.
- Arranging training on pedagogy and assessing its impact on teaching-learning.
- Arranging training on latest technologies.
- Conducting FDP programs on emerging technologies.
- Course coordinators for a section are nominated. His/her responsibilities include-Monitoring the teaching learning process of each subject in that semester, monitoring the schedules and helping the teacher of a subject on delivery methods after consulting internal/external experts in that subject.

Besides regular classroom learning and innovative teaching methods like:

- Guest lectures on advanced topics by the Eminent Academicians and industry experts.
- Conducting seminars by students.
- Faculty development through subject based workshops, orientation programs, seminars and conference programs, technology based workshops etc.
- Field trips and industrial visits etc.
- The programs are designed by outcome based approach.

Encouraging faculty for online certification courses (NPTEL, MOOCS, etc):

184 faculty members and 210 students have got NPTEL, Course Era, Udemy, MOOCS etc. course completion certificates for various courses during Assessment period.

File Description	Document
Provide Link for Additional information	View Document

6.5.2**Quality assurance initiatives of the institution include:**

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
- 2.Academic and Administrative Audit (AAA) and follow-up action taken**
- 3.Collaborative quality initiatives with other institution(s)**
- 4.Participation in NIRF and other recognized rankings**
- 5.Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

Response: A. Any 4 or more of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	View Document
NIRF report, AAA report and details on follow up actions	View Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	View Document
Link to Minute of IQAC meetings, hosted on HEI website	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

Measures initiated and practiced by SREC for the gender equity during the last five years are as detailed below:

- 24 x 7 CCTV cameras are installed at critical locations both inside and immediate outside the campus, to keep a vigil.
- Deployment of security guards at prominent locations in the campus, for instant reach out.
- First-aid kits in all the departments and Fire extinguishers installed at important points
- Separate toilets for ladies and common rooms for girl students
- Display of Emergency contact numbers of the designated contacts personnel for quick response under emergencies.
- Thorough monitoring and security surveillance till the last woman employee/ girl student leaves the campus after the daily college work/duties.
- Boys are sensitized on the appropriate behavioral aspects towards the other gender/s, at the time of their orientation, soon after their admissions to the college.
- **Women Empowerment Cell** undertakes issues pertaining to girl students and women staff of the institution, for need-based redressal and counseling.
- Each class has a girl student as a representative who shall report to the concerned HoD of any untoward gender issues.
- Admissions are made by the affiliating university, following the rule of 33% reservation for girl students.
- The Professional societies conduct awareness and empowerment programs on gender issues, for both the girls and boys.
- The institution celebrates events such as International womens' day and other days of gender related significance.
- Girl students are counseled periodically by the women faculty on gender related problems.
- Self-defense training classes are conducted for all girl students
- Awareness camps are arranged on the policy of anti-sexual harassment, gender discrimination and the internal complaint process, as per the statutory law/s.

The institution organizes special events annually to commemorate the birth and death anniversaries of Indian luminaries besides some events of national importance like Independence Day, Republic Day to respect our nation and its great personalities. The institute celebrates these days to remember the events or contribution of our leaders in building the Republic nation.

- National Girl Child Day on 23rd January
- National Voters Day on 25th January
- Republic Day on 26th January
- National Science Day on 28th February
- International Women's Day on 8th March
- Blood Donation Day on 19th March
- World Water Day on 26th March
- National Technology Day on 11th May
- The World Environment Day on 5th June
- International Yoga Day on 21st June
- Independence Day on August 15th every year to celebrate freedom
- The Teachers' Day on 5th September
- Engineers Day on 15th September
- National Students Day on 15th October
- National Mathematics Day on 22nd December

File Description	Document
Upload Additional information	View Document

7.1.2

The Institution has facilities and initiatives for

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and nondegradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

Response: A. 4 or All of the above

File Description	Document
Policy document on the green campus/plastic free campus.	View Document
Geo-tagged photographs/videos of the facilities.	View Document
Circulars and report of activities for the implementation of the initiatives document	View Document

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

Response: A. All of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	View Document
Policy document on environment and energy usage Certificate from the auditing agency	View Document
Green audit/environmental audit report from recognized bodies	View Document
Certificates of the awards received from recognized agency (if any).	View Document

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

It is the duty of every citizen of the country to preserve the old culture of India, harmony and equilibrium has to be maintained. Every citizen of the country should believe in common brotherhood and try to maintain communal harmony. Keeping the above in mind, SREC provides an inclusive environment for everyone, with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Different sports and cultural activities are organized every year inside the college to promote harmony towards each other. Commemorative days like, Women's day, Yoga day, Independence day, Republic day, Teachers day along with many regional festivals like Sankranthi, Diwali, Vinayaka Chavthi, Ugadhi are celebrated in the college. This establishes positive interaction among people of different racial and cultural backgrounds.

There are different grievance redressal cells in the institute like Student grievance redressal cell, Internal Complaints Committee which deal with grievances without considering anyone's racial or cultural background. Institute has code of ethics for students and a separate code of ethics for teachers and other employees which are to be meticulously followed by all.

SREC undertakes several initiatives by organizing various activities to sensitize students and employees to the constitutional obligations towards Values, Rights, Duties and responsibilities of the citizens. Constitution day is celebrated in the campus by inviting eminent personalities who are well versed with

the Indian constitution, to address staff and students. They narrate the fundamental rights, Duties, Values and responsibilities of citizens as stated in Constitution of India. Management representatives also address the gathering and appeal to all to remember the struggle of freedom and respect the National Flag and National Anthem. Our constitution provides for human dignity, equality, Social justice, Human rights and freedom, Rule of law, equity and respect and superiority of constitution in the national life. The whole country is governed on the basis of the rights and duties enshrined in the Constitution of India. A course on professional ethics and constitution has been introduced at UG level for all engineering disciplines to create awareness and sensitizing the students and employees to constitutional obligation. As a part of strengthening the democratic values every year Republic day is celebrated on 26th Jan by organizing activities highlighting the importance of Indian Constitution. Similarly Constitution day also would be celebrated on 26th Nov every year. Independence Day is also celebrated every year on 15th August to highlight the struggle for freedom and importance of the Indian constitution.

File Description	Document
Upload Additional information	View Document

7.2 Best Practices

7.2.1

Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

- Title of the Practice:** Student involvement in Extension and Outreach community service activities through NSS in nearby adopted villages

Objectives of the Practice:

- To develop leadership and community development attitude among the students.
- To generate awareness into society towards Environment, Health and ethical responsibilities among the villagers
- To develop interactive network with the community to serve the nation
- To sensitize students for paying back to society

The Context

The institute conducts its NSS activities throughout the academic session as a team work of NSS volunteers under the active guidance and leadership of program officer. The Extension activities of the College inculcates the spirit of voluntary work among students through sustained community interaction. It is a link between the campus and the community, college and village, knowledge and action. The NSS unit commit the student youth to work practically and enthusiastically in the adopted villages by involving them as NSS volunteers with the purpose of inculcating awareness in rural community

regarding education, prevention of disease. Moreover, a wide range of activities like Cleanliness, Personal Health, Plantation, Practice of “Yoga”, awareness Campaign are organized during special camps in the nearby villages.

The Practice

The college annually organizes number of extension and outreach activities with primary focus on the development of personality of students through community services. Activities like NSS special camp, awareness rallies, cleanliness drive, blood donation camp, health checkup camp, plantation in the college and at the NSS special camp site are organized by the college. Health checkup camp and Yoga training is conducted in NSS camp for the students and villagers.

- N.S.S. volunteers donate their labour for village cleanliness and institutional premises.
- Blood donation camps and Health check-up camps are arranged under the aegis of various hospitals in around Tirupathi.

Evidence of Success

Through these activities, students are motivated and get an opportunity to do social work and develop sense of nationality and has imparted values such as charity, selflessness and discipline. Special camps and rallies on social issues expose the students to the need of the community and various activities involve them in the problem solving process. Medical health checkup and blood donation camp create among the volunteers a sense of social responsibility, residential camps build a competency for group living and community sharing. The volunteers involve in different activities also acquire leadership qualities leading to national and social harmony. These events helped the college, staff and students connect with the rural people and helped in creating a good rapport between the people and the college.

Problems Encountered and Resources Required

Though N.S.S. volunteers are committed to work for the cause of community and society, yet it is very difficult for them to live up to the high expectations of the people. Participation of the villagers was comparatively less during day time owing to their engagement in agricultural activities.

They come across some practical problems while performing various awareness campaigns. One such common problem is that some villagers are reluctant to cooperate with the volunteers and adamant about their notions.

2. Title of the Practice: Student Centric Effective Teaching-Learning Process

Objectives of the Practice:

- To create a student-centric learning environment
- Changing the traditional mode of teaching learning to innovative methods
- Making effective use of ICT

The Context

The problems like COVID -19 pandemic created lot of challenges in front of educational institutes. The

teaching learning process became tough and challenging these days. Student centric teaching learning approach include identifying the types of learners and dealing with them accordingly, modifying the existing modes of teaching by making them more flexible, rich in variety, interactive, experiential, practical and inclusive of technology.

The Practice

Information & Communications Technology (ICT) enabled teaching methodologies are being followed by the faculty members in class rooms as a complementary tool for conventional teaching methods. The use of multimedia teaching aids like, LCD projectors and internet enabled computer systems are usually employed in class room.

Different Stages are adopted in using ICT Methodology which are enlisted below:

- Students are informed in the beginning of the session about their programme outcomes, programme specific outcomes and course outcomes in different ways such as college website, departmental notice boards and classroom interactions. And also through Canvas tool.
- Students are identified as slow and advanced learners and strategies are adopted accordingly. These learner types are identified through personal interaction and mentor mentee interactions and class tests. Tutorials and extra classes are held for the slow learners to bring them at par with other students, whereas advanced learners are assigned tasks such as project works, field work, assignments, presentations and seminars to promote them. Moderate types of learners are encouraged to improve their skills and fall in the category of advanced learners.
- In order to make teaching learning more interesting and interactive, emphasis is given on involving ICT in teaching learning. Through Canvas tool students are provided e learning resources in the form of e-notes, e-assignments and presentations. Students are informed about various web resources they can consult for better learning.

Evidence of Success

Canvas tool has become a best practice in the delivery of academic classes during the lockdown time. It also made communication between teachers and students much easier in terms of assignments, quizzes, and tests. As a result of this strategy students were able to progress their courses without delay. This practice has resulted in a marked increase in the pass percentage of students, who interact and actively take part in the lecture session.

Problems Encountered and Resources Required

- Adapting to the new method of teaching and creation of digital content was the challenging task for the faculty members which they have completed successfully.
- Student participation at the beginning of the course is less and at last after mentoring students have turned up.

File Description	Document
Best practices as hosted on the Institutional website	View Document

7.3 Institutional Distinctiveness

7.3.1

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

The Institutions vision is to be one of the best educational institutions in the country by transforming the students into multifaceted individuals with a penchant for academic excellence in the field of Engineering & Management with moral & ethical values and moulding them as an empowered citizens to meet the global requirements.

SREC emphasizes on Outcome Based Education (OBE) and Experiential Learning. The Institution regularly monitors the attainments of COs, POs and PSOs of all the programs and appropriate actions are taken based on the identified weaknesses, through a well-structured Evaluation mechanism, for ushering need-based improvement. Special programs for slow and advanced learners were being organized. Special focus is given for bridging the gap between Industry and Academia through internships and industrial visits.

A variety of teaching and learning techniques (ICT) are employed to impart knowledge and skills to students. The campus facilities are continuously augmented and strengthened. The institution adopts JNTUA regulations for evaluation of students through internal and external assessments.

Following are the methods adopted to transform the academic environment:

- Changing the teaching methodology by encouraging the faculty to use power point presentation where ever required.
- Extensive use of online – content and other Video lectures to support the Class – room teaching.
- Students are encouraged to present poster and oral paper presentations.

Counseling system:

- Every Faculty member is allotted 10 to 17 students to whom one acts as a counselor. The counselor identifies the academic and personal problems of his/her ward.
- The wards are encouraged to participate both in curricular and extra- curricular activities.
- Each department arranges guest lecturers periodically addressed by the eminent persons from Industry, Academic and Research Institutions.

SREC has created an ecosystem for innovation & incubation, research, Entrepreneurship, and community orientation by providing the infrastructure, mentoring network, seed support, and shared resources. An Innovation Cell was established in the college to foster the culture of innovation among faculty and the students. The Cell aims to encourage, inspire, and nurture young students by innovation with new ideas and transform them into prototypes. Institution Innovation Council (IIC) has been established at SREC by the MHRD Innovation Cell (MIC), Ministry of HRD, Govt. of India, to foster the culture of Innovation among Higher Education Institutions.

As a special thrust, societal development is also instilled on a large scale into the students through the active NSS unit which undertakes various services to inculcate social values. Throughout the year, the NSS unit undertakes a plethora of events ranging from cleanliness drives, tree plantation drives, Blood donation drives, waste management drives, gender equity, field visits and many more.

Quality education is complemented with an ever-enhanced infrastructure. The college constantly augments its infrastructure, catering to the needs of all levels of academic programmes. The infrastructure is upgraded with palatial buildings of architectural excellence along with class rooms, lab facilities, books in the library, sports gadgets, auditoriums and green initiatives. Being a co-educational institution, the infrastructure caters to the needs of both male and female students simultaneously, ensuring a gender- friendly ambiance.

The Library has a carpet area of 558 Sq Mtrs. The library is well equipped with a reading capacity of 150 readers and is also Wi-Fi enabled. Library users have easy access to photocopying facilities. The library Housekeeping operations are fully automated i.e. counter Service, Issues and returns, Technical Service: Classification and Cataloguing (OPAC) by using the Library Software AUTOLIB developed by AutoLib Software Systems Chennai Tamilnadu. Generation of Barcodes to the books by using barcode software. The Students of Sree Rama Engineering College are issued a single barcode for Library Membership cum College Identity card. The users of the library can use the same Identity card for borrowing books.

The Library has various Text Books, Reference Books, e-books, Journals, Magazines, e-journals, NPTEL video lessons related to Engineering and allied subjects. Library has a collection of fascinating books which includes Encyclopaedia, Hand books, Dictionaries, GATE and competitive examination books and videos that support the content beyond syllabus. The library has a huge collection of 25,402 volumes and around 4,950 Titles.

Students and teachers are encouraged to register for online courses offered by NPTEL and the college is one of the active centres. In addition to teaching and research, the college grooms its students with societal responsibility.

5. CONCLUSION

Additional Information :

The institution follows the following procedures in order to cultivate the abilities and skills of youth with quality technical education and inspire them to be self-disciplined with competence to confront the challenges of globalization: Soft-skills and personality development training yields professionals who are prepared for the workplace. Encourage students to engage in extracurricular and co-curricular activities. To enhance their teaching abilities, faculty training in contemporary instructional approaches. Encourage the faculty to submit papers for publication to national and international journals and conferences. Create and development of a green environment. Pay attention to how applications and technology are changing. Give chances, systems, and resources for ongoing improvement.

Concluding Remarks :

Institute has a well-framed Vision and Mission, considering the needs of society. Best Academics, Infrastructure, Laboratories, Industry-interaction, Self-learning, and Co-curricular and Extra-curricular activities are some of the special features which cater to the comprehensive development of the students. The Governance comprises of Governing Body, Internal Quality Assurance Cell and various Institute level committees. These all play a significant role in the evolutionary reforms towards positioning the Institute in the preferred list of all stakeholders. The Institute promotes the culture of delegation of powers through strategic policies. The Principal of the Institute is assisted by HODs, Administrative Head, Section in-charges, and Coordinators of various committees in the decision-making process at the Institute. Institute executes strategic planning from time to time for producing quality engineers and the overall growth of the Institute. Institute has well established Organizational structure to execute the smooth functioning of Administrative and Academic processes. SREC has deployed e-governance in all the areas of academic processes to ensure better Academic planning and monitoring. Institute regularly conducts training for Staff and Faculty members for implementation of quality procedures. External audit by various agencies like AICTE, JNTUA, ISO, and Internal audit is undertaken periodically to improve institutional activities.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p>Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)</p> <p>Answer before DVV Verification : 78 Answer After DVV Verification :66</p>																				
1.2.2	<p><i>Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</i></p> <p>1.2.2.1. Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>1709</td> <td>1465</td> <td>1285</td> <td>1277</td> <td>1192</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>1709</td> <td>1465</td> <td>1285</td> <td>1277</td> <td>1192</td> </tr> </tbody> </table> <p>Remark : as per the documents</p>	2021-22	2020-21	2019-20	2018-19	2017-18	1709	1465	1285	1277	1192	2021-22	2020-21	2019-20	2018-19	2017-18	1709	1465	1285	1277	1192
2021-22	2020-21	2019-20	2018-19	2017-18																	
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2021-22	2020-21	2019-20	2018-19	2017-18																	
1709	1465	1285	1277	1192																	
2.4.1	<p>Percentage of full-time teachers against sanctioned posts during the last five years</p> <p>2.4.1.1. Number of sanctioned posts year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>140</td> <td>146</td> <td>180</td> <td>166</td> <td>159</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>140</td> <td>146</td> <td>180</td> <td>165</td> <td>158</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	140	146	180	166	159	2021-22	2020-21	2019-20	2018-19	2017-18	140	146	180	165	158
2021-22	2020-21	2019-20	2018-19	2017-18																	
140	146	180	166	159																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
140	146	180	165	158																	
3.2.2	<p><i>Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years</i></p> <p>3.2.2.1. Total number of workshops/seminars/conferences including programs conducted on</p>																				

Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
7	5	5	5	5

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
7	5	7	7	7

Remark : as per the documents

3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years**3.3.1.1. Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
48	43	39	8	9

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
38	40	37	0	0

Remark : Other papers are not published in the UGC CARE Journals or Scopus or WoS

3.4.3 Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.**3.4.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
16	3	7	7	7

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
16	3	7	9	9

Remark : as per the documents

3.5.1 **Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.**

Answer before DVV Verification :

Answer After DVV Verification :10

Remark : Out of 12 only 10 can be considered since 2 MoUs are signed after March 2022

4.4.1 **Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)**

4.4.1.1. **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
330.31	82.54	150.31	135.56	156.85

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
248.3	81.52	148.61	132.77	153.35

Remark : as per the documents

5.2.1 **Percentage of placement of outgoing students and students progressing to higher education during the last five years**

5.2.1.1. **Number of outgoing students placed and / or progressed to higher education year wise during the last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
194	141	136	155	129

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
194	141	136	155	129

5.2.1.2. **Number of outgoing students year wise during the last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18

405	305	255	329	257
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Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
361	272	228	305	237

Remark : as per the documents

6.3.3 **Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years**

6.3.3.1. Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
184	119	124	25	79

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
184	119	123	59	79

6.3.3.2. Number of non-teaching staff year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
76	76	76	52	52

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
76	76	76	52	52

Remark : as per the documents

2.Extended Profile Deviations

ID	Extended Questions					
1.2	Number of teaching staff / full time teachers year wise during the last five years					
	Answer before DVV Verification:					
	<table border="1"> <tr> <td>2021-22</td> <td>2020-21</td> <td>2019-20</td> <td>2018-19</td> <td>2017-18</td> </tr> </table>	2021-22	2020-21	2019-20	2018-19	2017-18
2021-22	2020-21	2019-20	2018-19	2017-18		

140	146	180	166	159
-----	-----	-----	-----	-----

Answer After DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
140	146	180	165	158

2.1 **Expenditure excluding salary component year wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
384.55	86.47	155.60	153.08	160.10

Answer After DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
384.55	86.47	155.60	154.17	160.10