



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY

NO. 146 / 4B1, AMARAVATHI VILLAGE, AMARAVATHIPUDUR POST,
KARAIKUDI TALUK, SIVAGANGAI DISTRICT, PIN CODE - 630301,
TAMILNADU
630301
www.srirajaraajan.in

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

July 2023

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Sri Raaja Raajan college of Engineering and Technology was established by Sri Muthumari Charitable and Educational Trust in the year 2010 with a view to create an Engineering Degree Institute to fulfill the long felt public need of an Institute of Excellence in Karaikudi. The founder of the institution was Dr. S.Subbiah, Former Vice-chancellor, Alagappa University, Karaikudi. Sri Muthumari Charitable and Educational Trust is assisted by the Governing and Advisory Council in matters of Policy, Planning and Development of the Institutions.

- SRRCET is located at Amaravathipurur, - midway between Karaikudi and Devakottai, Sivagangai District.
- The campus area has 13.47 acres of 1,50,000 sq.ft. and a built-up area of 14000 sq.m. A sufficient number of classrooms and laboratories with all facilities as prescribed by AICTE/ affiliating university
- SRRCET lays stress on providing quality education and maintaining high degree of discipline to meet the demands of the people
- SRRCET has SIX UG Programs and ONE PG Programs in the most coveted disciplines considering both industrial need and public preference. These courses would lead to award of the Degree of Bachelor of Engineering (B. E.) and Master of Engineering (M.E.)
- SRRCET is approved by AICTE and is affiliated to Anna University, Chennai.
- Very good Infrastructure and the institution is surrounded by a lush green environment and ecofriendly practices in the campus.
- Strong Industry Institute Interaction.
- Separate hostels for boys and girls.
- Transport facility to nearby towns and villages
- Excellent placement opportunities for students

Vision

- To function as a center of excellence with world-class instructional and infrastructural facilities to realize the vision of producing highly disciplined, talented students to serve humanity in unparalleled style.

Mission

To produce exceptionally competent professionals through personalized teaching and graduates who are ethically upright and educationally bright to render service of global standards.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Very good Infrastructure and the institution is surrounded by a lush green environment.

- Qualified and dedicated faculty members with good teamwork.
- 6 Nos. of Patents have been granted to our Faculty members.
- Progressive and Committed Management with Clear Vision, Mission, Goals and Objectives.
- Strong Industry Institute Interaction.
- MOUs with Industry and reputed Institutes for curriculum enrichment, placement, offering value added courses, etc.
- College produced many University Ranks in Mechanical, Civil and Computer Science Engineering Departments.
- Separate hostels for boys and girls.
- Transport facility to nearby towns and villages.
- Proactive Internal Quality Assurance Cell (IQAC) to ensure quality in the Teaching learning process.
- Excellent placement opportunities for students as the number of companies recruiting are increasing year by year.
- Constituted various clubs to facilitate co-curricular and extension/outreach activities In-house. Newsletters and magazines are published regularly
- Facilities are available for various indoor and outdoor games and sports. Financial support is provided to participate and won medals in State, National and International level events.
- Green Initiatives and clean Initiatives.
- Awards for Extension and service to society through NSS, RRC, Rotaract Club and YRC. Constant Endeavor to upgrade quality.
- Financial support provided to the students by the Management to do innovative /Social relevance projects.
- Management scholarship given to meritorious and economically poor students.
- Ecofriendly practices in the campus.

Institutional Weakness

- Lack of interest among students towards higher studies/research
- Departments yet to get recognition as research center
- As the Institute is located in rural area, not able to do more consultancy service for revenue generation.
- Not having full residential facilities for Staff.
- There is no adequate public transport facility available for the College campus.

Institutional Opportunity

- Tie-up with research laboratories to promote knowledge
- Initiate ‘Start-ups’ within the Campus.
- Strong Alumni Association
- Scope for industry tie-ups -offering courses by updating Curriculum - Setting up Multi-Disciplinary Research Centers.
- Increased focus on higher education: - The govt. of India focusing more on higher education to provide quality education for UG and PG courses.

- Digitalization: - Digitalization will present a huge opportunity for educational institutions in terms of saving costs as well as reaching out to more students.
- E-learning platform: - Investment in e-learning and starting of Massive Online Open Courses (MOOCs) is an opportunity waiting to be harnessed for quality education and to generate resources.
- Programs in the recent emerging specialization.

Institutional Challenge

- To enhance Faculty/ Student exchange programs with reputed National/ International Organizations.
- To attract more research funding from DST/ DIT/ UGC/ AICTE/ DRDO/ ISRO etc.
- Coping and adapting with rapidly changing technologies without compromising the fundamentals.
- Language barrier for Tamil medium students coming from government schools, located in nearby backward districts (Sivagangai, Ramanathapuram and Pudukottai).

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Sri Raaja Raajan College of Engineering and Technology(SRR CET) strongly believes that providing right learning opportunity for students will make them industry-ready engineers.

- The Institute follows the curriculum prescribed by Anna University.
- The curriculum is implemented through preparation as well as critical thought by the teachers concerned. CBCS and Elective Systems were introduced in all UG programs from the academic year 2017-18.
- The institution encourages the faculty members to keep themselves updated in their knowledge by offering faculty development programs and workshops.
- The Academic calendar of the institute reflects University's academic calendar and includes curricular, co-curricular, and extracurricular activities.
- Academic-Calendar and Teaching-plans are strictly followed and are audited regularly. A well-defined mechanism for planning, execution and monitoring of curriculum and value-added courses to enhance the skills of students towards industry expectations and competitive examinations. An institution is sensitive to gender, environmental issues, human values and professional ethics and conducts different programs
- Allotment of subjects including open electives is done by the HOD based on the faculty expertise and preference obtained as per preference given to students and faculty.
- The Faculty Preparation Program (FPP) which consists of a detailed lesson plan is prepared by focusing on Outcome Based Education. For each course Question Bank, Manual, is prepared which is scrutinized at the department level and then approved by IQAC. University has introduced courses on professional ethics and Environmental science.
- Departmental activities are scheduled which include Industrial visits, In-plant training, Guest Lectures, Project competitions, Seminars, conferences, Placement and Training and Association activities.
- Compulsory Internship and Field Projects.
- The IQAC monitors and assists the faculty members in effective curriculum delivery.
- The feedback received from the students and stakeholders is carefully analyzed and discussed and appropriate actions are initiated. Curricular gaps are identified and communicated to University.

Teaching-learning and Evaluation

- Admission process for different programs through Tamil Nadu Engineering Admission (TNEA) Counselling by the State Government of Tamil Nadu.
- The admission process ensures the inclusion of students from all categories through social reservations defined by the State Government of TN.
- By the entry-level Induction /Bridge courses programs for the newly joined students.
- The institute has a Learning Management System and a good reservoir of e-learning materials. The excellent mentor-mentee system of the institute takes care of academic and stress-related issues.
- The utilization of Teaching gadgets and other innovative methods by the faculty and students year by year. Additional support for advanced learners. Student-centric learning environment that promotes independent, interactive and collaborative learning. Encouragement and support for all co-curricular and extracurricular activities to nurture critical thinking, creativity and scientific temper. Well-qualified, committed faculty with 15 PhD holders.
- The institution has brought several reforms in the examination system which comprises Continuous Formative Assessments and Summative Examinations conducted at the end of the semester.
- The system is fool-proof and transparent. The examination section is automated. Students are also educated on POs, PSOs, and PEOs (also displayed on the website).
- The institution systematically checks for the attainment of outcomes and reviews the Teaching-Learning strategies.
- Alumni association with the active contribution of alumni in enhancing the teaching-learning process.
- Five UG Programs (Civil, CSE, ME, ECE, EEE) and one PG program (M.E. CSE) are affiliated to Anna University.

Research, Innovations and Extension

- The institution has a dedicated team of researchers. A senior faculty member in each department has been nominated as the research coordinator.
- Faculty members and undergraduate students are provided with adequate resources to pursue research in their respective fields of interest.
- Students are encouraged to take up research projects under the supervision of the faculty members.
- The college provides state of art facilities for carrying out research projects through future tech labs.
- Each Future Tech lab is guided by +academic mentors and focuses on intellectual property development.
- The faculty members pursuing research are encouraged by providing them with the required equipment, books, financial assistance for conferences/journals, e-resources, computer facilities, Wi-Fi etc.
- The college provides incentives to the faculty for their research contribution. Research meeting is convened to discuss proposals for funding agencies.
- The faculty members who do not possess a PhD degree are advised to register for research work. Research papers have been published in the SCOPUS Indexed reputed journals during the last five years
- More than 200 industrial training programs such as internships, field trips, and on-job training have been organized. 25 performing collaboration activities (MOUs) have been signed with reputed firms.
- Faculty members and students are actively involved in Institutional Social Responsibility activities through structured forums like NSS, YRC, RRC, Rotaract Club and Societies and programs/activities conducted by Govt. Organizations.
- Many recognition and awards are received for various extension activities from State / National /

International level agencies and NGOs.

- Numerous activities have been organized in the near past, such as tree plantations, the adoption of villages, and having a residential camp for building a rapport.

Infrastructure and Learning Resources

- The state-of-art infrastructure augments the learning environment. It is a significant impact on the institution.
- The Management of Institutions is committed to enhancing the infrastructure as and when needed which promotes a good teaching-learning environment.
- The campus area has 13.47 acres of 1,50,000 sq.ft. and a built-up area of 14000 sq.m. A sufficient number of classrooms and laboratories with all facilities as prescribed by AICTE/ affiliating university
- Future tech lab is a unique facility provided by the management for augmenting research and training activities.
- Classrooms and Seminar Halls are equipped with ICT facilities.
- Multipurpose Indoor auditorium for conducting cultural programmes and sports activities,
- College and Hostels are Wi-Fi enabled. High-speed Internet connection with 50 Mbps Leased Line.
- The college has licensed and open-source software in various departments.
- The Library has a collection of more than 13010 Volumes and around 3205 Titles and 376 print Journals, 112 E-journals, and 132 E-Books.
- Digital Library is equipped with 15 Systems; users can access e-resources. Faculty and students can access the facilities beyond office working hours. Excellent power backup through generators
- Wide and spacious playground exclusively for boys and girls
- Excellent campus maintenance. Adequate financial allocations are made for internal maintenance work of all infrastructures and maintenance of greenery.

Student Support and Progression

- Institution puts in relentless efforts for the all-round development of students. Students Clubs, NSS, RRC and YRC, Games and Sports Committees actively organize Technical & Cultural Fests, Social activities, and co-curricular activities.
- Adequate representation is given to students in all academic/administrative committees and students are involved in the decision-making process.
- More than 90 % of the students avail scholarships & free shipping from the Government as well as the institution.
- Guidance for competitive examination, soft skills training, Life skills, ICT/Computing Skills Yoga and meditation classes are initiatives for student all-round development.
- More than 40 Add-on, Diploma / Certificate / Short term courses are offered to all students to enhance their skills and capabilities. Industrial tie-ups with reputed companies are done to carry out value-added programs in the past 5 years.
- Grievance Redressal Committee and Anti-Ragging Committee, Internal complaints committee help the students to address the issues if any. Dean/Student Affairs and counselors for each department look after the issues of the students.
- The institution has a good placement record and on an average 75% of the students are placed on

campus. More than 15% of students opt for higher education in prestigious institutions and 10% of students have become entrepreneurs.

- Students who are appearing for the competitive examinations are all qualified. Department-level clubs/Associations to encourage students in cultural activities.
- More than 50 sports/cultural activities/competitions are organized in the institution every year.
- The Alumni association contributes actively to the growth of the institution with the active contribution of alumni in enhancing teaching learning process and placement training activities.

Governance, Leadership and Management

- The institution has an effective and transparent governing system in tune with the Vision and Mission of the Institution.
- The organizational structure of the institution and decentralization is clearly defined on the campus. The Governing Body conducts periodical meetings that analyses the progress of the institution and recommend improvements.
- The Management has constant touch with the Principal, Dean, Director-IQAC and Administrative Officer to maintain cordial rapport to discuss the infrastructural needs, development, administration and appointments.
- The Principal is the Academic and Administrative head of the Institution and is responsible for the implementation of the Vision and Mission of the college.
- Institution/departments have a clear perspective/ strategic plan and it is deployed effectively. Each functional body is clearly defined with service rules and procedures. The institution has well-defined procedures for recruitment and promotion.
- The institution has implemented e-governance in all the areas of administration, examination process and academics.
- Various bodies/ cells/ committees are working effectively and regular meetings are called for the discussion and minutes are recorded.
- HODs organize Career Guidance Programmes, Workshops, Value added Courses, Symposium, Social relevance activities, Seminars and Conferences to enrich the knowledge and showcase the talents of students.
- More than 75% of teachers benefited from financial support for attending conferences/ workshops and towards membership fees of professional bodies during the last 5 years.
- More than 50 professional development/ administrative training programs organized on the campus for the benefit of teaching and non-teaching staff during the last 5 years.
- More than 60% of teachers benefited from attending professional development programs.
- The institution has implemented various welfare measures for teaching and non-teaching staff to keep them comfortable.
- The Institution follows rigorous Quality Assurance processes that pave the way for ensuring academic excellence.
- The IQAC is responsible for the effective implementation of Quality processes.
- IQAC is conducting a quarterly meeting and organizing collaborative quality initiatives.
- IQAC conducts the Academic and Administrative Audit and based on the observation of the report, quality recommendations are given.

Institutional Values and Best Practices

SRRCET is committed to maintain a culture of innovation, creativity, hard work, perseverance and excellence.

- The motto of our institution is '*Live to Learn and Learn to Serve*', which can contribute immensely to the progress and development of our nation. The main focus is on the holistic development of the students in an eco-friendly campus.
- The efforts to evolve new ideas and strategies in line with the Vision and Mission of the institute made the institute distinctive in the region.
- Strategic support for Ideation and Innovation of students to do many Innovative Projects is a Best Practice followed in the Institute.
- The Uniqueness of our Institute is that around 90% of students are getting Government Scholarships. Apart from Government scholarship, the Management also providing financial support to meet the expenses of Hostel, Transport, etc.
- The institute takes pride in being located in a verdant green campus.
- The college has taken some significant measures in energy conservation, waste management, rainwater harvesting and tapping unconventional energy sources.
- Sensor-based energy conservation is done to avoid unwanted usage of electricity and steps are initiated by the institution for the management of degradable and non-degradable wastes and water conservation.
- One Academic block is established as Green Building.
- Various schemes like the elevation of the underprivileged sections of society, Management scholarships to the meritorious students, financial aid to the poor students without any discrimination of caste, creed or gender, women empowerment programs, financial aid to do projects for students, counselling for students and social awareness programs in collaboration with various governmental agencies are being implemented.
- The best practices are oriented towards the quest for excellence and with concrete efforts, this can bring a change in the life of the whole institution as well as the stakeholders.
- As an Engineering study by our Civil students to the Society, an analysis is done on "Mineral content in Water" by taking water samples from different locations of Sivagangai District and the report is shared to the district authorities for further purification action.
- Various training programmes, Industry connected value-added programmes are being organized continuously to make students industry ready and to get placed in reputed companies.
- Through service and cultural clubs, various events are conducted to ensure gender equity and sensitization in cross-cutting issues.
- The SRRCET clubs also celebrate national and international commemorative days and organize events and celebrate festivals regularly.
- This will make students excel in logical thinking, team building skills and leadership skills.
- The future Tech lab of SRRCET provides an excellent ecosystem for research and development for faculty members and students.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Address	No. 146 / 4B1, Amaravathi Village, Amaravathipudur Post, Karaikudi Taluk, Sivagangai District, Pin Code - 630301, Tamilnadu
City	Amaravathiputhur Karaikudi
State	Tamil Nadu
Pin	630301
Website	www.sriraajaraajan.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	A. Elango	04565-234230	7373711343	04565-32613 2	srrcet2010@gmail.com
IQAC / CIQA coordinator	M. Vadivambal	04565-	9952965932	-	sisilcsesrrcet@gmail.com

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
Tamil Nadu	Anna University	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	No. 146 / 4B1, Amaravathi Village, Amaravathipudur Post, Karaikudi Taluk, Sivagangai District, Pin Code - 630301, Tamilnadu	Rural	13	14000

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	BE,B E Civil Engineering	48	HSC	English	60	19
UG	BE,B E Mechanical Engineering	48	HSC	English	60	46
UG	BE,B E Electrical And Electronics Engineering	48	HSC	English	30	20
UG	BE,B E Electronics And Communication Engineering	48	HSC	English	60	53
UG	BE,B E Computer Science And Engineering	48	HSC	English	60	60
UG	BTech,B Tech Agricultural Engineering	48	HSC	English	30	21
PG	ME,M E Computer Science And Engineering	24	BE	English	24	14

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	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	2				5				72			
Recruited	2	0	0	2	5	0	0	5	28	44	0	72
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				30
Recruited	7	23	0	30
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				11
Recruited	5	6	0	11
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.	2	0	0	3	0	0	3	5	0	13
M.Phil.	0	0	0	0	0	0	1	13	0	14
PG	0	0	0	0	0	0	24	23	0	47
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
	1	1	0	2	

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	310	0	0	0	310
	Female	232	0	0	0	232
	Others	0	0	0	0	0
PG	Male	0	0	0	0	0
	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	26	19	30	53
	Female	27	23	19	53
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	1	0	0	0
	Others	0	0	0	0
OBC	Male	25	41	42	124
	Female	31	23	13	48
	Others	0	0	0	0
General	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		110	106	104	278

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>Our institution has the vision of setting a benchmark for the education providers in the field of Engineering and Technology and providing quality technical education that fosters the spirit of learning and research through an innovative synergistic model of education that promotes academic excellence, scientific pursuit, and professionalism. The institution is keen on promoting a multidisciplinary approach among the student community thereby facilitating young minds to solve day-to-day societal problems. SET (Science, Engineering and Technology) Club has been actively undertaking a lot of student activities for integrating humanities and science with Engineering and Technologies. It develops a multidisciplinary approach among young minds by applying the concepts of Science and Engineering. The club plans events such as a workshop, guest lecture, project expo, etc. at the beginning of every academic year. Being a non-autonomous institution, we follow the curriculum and syllabi offered by the affiliating university viz. Anna University, Chennai. The university offers non-credit mandatory courses that emphasize general health, mind, history & culture, nation-building, gender equality and industrial safety in the minds of students. The university offers credit courses on human values & ethics, environmental science and sustainability, internship and project work towards the attainment of a holistic and multidisciplinary education. The institution has 6 Research Centers viz. Centre for Robotics, Centre for Cyber Security and Cloud Computing, Centre for Artificial Intelligence, Centre for Electric Vehicle & Energy, Centre for Image Processing, and Centre for IoT. Since most of today's challenges need solutions incorporating multidisciplinary research, we encourage students to take up projects in these centers based on their interests but employ the multidisciplinary approach through knowledge sharing with fellow students. Many students presented their innovative ideas in the exhibitions organized by the college.</p>
2. Academic bank of credits (ABC):	<p>Our institution is going to apply for registration with the Academic Bank of Credits from statutory authorities such as Governing Council, Academic Council and university authorities. We encourage the students to learn and earn credits through the online modes in SWAYAM. Our faculty members are also</p>

	<p>encouraged to register for on-line courses which are considered equivalent to FDPs. The institution has been encouraging the faculty members to prepare the course material, assignments, quizzes, etc. in MOODLE. In this way, the institution promotes digital learning and assessment.</p>
3. Skill development:	<p>The institution is imparting knowledge on Cyber Security, Artificial Intelligence, IoT, CNC technology, EV technology, etc. to the students through Jairam Skill Development Centre (approved by Bharathidasan University). Through this initiative, students could get trained in recent technologies viz. AI, Cyber security, Robotics etc. That facilitate them to become industry ready at the time of their graduation. MOU was signed with IECD-Bharathidasan University on 2020 and offers Certificate, Diploma and Short term courses. Capacity building and soft skills-oriented training are provided to the students.</p>
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	<p>Being a non-autonomous institution, our institution offers non-credit mandatory courses that emphasize on Constitution of India and its culture, nation building. The institution emphasizes the bilingual mode of teaching by the faculty members specially to teach Tamil medium students from a rural background and pay individual attention during tutorial sessions and performance enhancement classes. The institution conducts several awareness programmes for the students on the environment, sustainability, energy conservation, ancient knowledge, arts, culture and tradition of our country through the clubs such as Fusion Club, Tamil Mandram and Fine Arts.</p>
5. Focus on Outcome based education (OBE):	<p>Our institution has been following OBE for teaching, learning, evaluation and continuous improvement. Our UG programmes viz. B.E. Computer Science and Engineering, B.E. Civil Engineering, B.E. Electronics and Communication Engineering, B.E. Electrical and Electronics Engineering and B.E. Mechanical Engineering B.Tech Agricultural Engineering (2022-23 Academic Year) are approved by AICTE and affiliated to Anna University. The academic calendar is prepared before the commencement of classwork, every semester. Faculty members prepare a lesson plan keeping in view the syllabi offered by the university and the expected course outcomes</p>

	<p>(COs). COs are suitably framed by the course coordinator for each course, based on the syllabus and objectives of the course. COs are mapped with POs and PSOs. Questions in the internal assessment and assignments are framed such that the assessment of the entire COs is properly made. Based on the performance of students and the target fixed for the attainment of each CO, an assessment of the attainment of COs is computed. If the target is not achieved, then suitable corrective action such as changing the pattern of delivery of courses and assessments will be taken by the faculty members. Similarly, an assessment is made based on the performance of students in the external end-semester examination. Then the assessment of the attainment of POs and PSOs is made through all the courses as well as activities through mini projects, case studies, seminars and workshops, etc. The Department Advisory Board (DAB) and Program Assessment Committee (PAC) scrutinize this process and suggest suitable measures periodically such as fixing revised targets for POs, and PSOs and conducting more student-centric activities, thereby facilitating continuous improvement of the programmes offered by each department. It is found each program offered by our institution is found to progress successfully through this closed-loop monitoring.</p>
6. Distance education/online education:	<p>The institution supports online learning and assessment through Google Classrooms and Zoom apart from traditional teaching. Classroom teaching and learning sessions videos are captured through Impacts. Faculty members could go through the videos captured, and make corrections and additions to their lectures. They could share the material with the students for enhanced learning. Some faculty members have also presented video lectures on YouTube. The institution is also planning to offer certificate courses through online for professionals and value-added courses for our students in the recent areas of AI, IoT, Data Science, Cloud Computing, etc. to meet the future challenges of society.</p>

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been	In Our Institution, Electoral Literacy Club has been
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<p>set up in the College?</p>	<p>formed.</p>
<p>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?</p>	<p>The Office Bearers of ELC are given below: The Faculty Coordinator is Prof. V. Mahalingamsuresh. The students' Coordinator is Mr.P.Sethupathi Our ELC is highly functional and organizes various awareness programs on Electoral Process.</p>
<p>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.</p>	<p>Commemorative Day on "Obligation Right" is being organized to create awareness of Voting Rights.</p>
<p>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.</p>	<p>The list of socially relevant projects carried out by Our Students are listed below: 1. Various awareness programs on voting rights, and voting procedures were conducted by NSS in nearby adopted villages. 2. A program was organized in collaboration with Puthia Thalaimurai TV channel on electoral rights during 2019 parliament election.</p>
<p>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.</p>	<p>It is to state that all Students who have attained the age of 18 have been motivated to enroll as voters and special camps are being organized for enrollment.</p>

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
593	560	668	843	947

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: 74

File Description	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
74	70	74	74	74

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
215.7	174.5	214.5	211.4	210.8

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:

Response:

Sri Raaja Raajan College of Engineering and Technology is affiliated to Anna University, Chennai and has an insignificant role in curriculum designing and development. The university formulates and revises the curriculum once in four years. Also, the implementation will be well documented to have effective monitoring of the curriculum delivery at various levels

Curriculum Analysis:

The Anna University (AU) curriculum is a blend of Humanities, Basic Science, Basic engineering, Core Courses, Elective courses, Projects and Seminars. etc. The Institute also follows the AICTE model curriculum and the courses prescribed by AICTE not covered by AU are offered as Value added courses or addressed through topics beyond the curriculum or Gaps in the curriculum.

Adherence to the Academic Calendar

All the academic activities for the forthcoming semester are planned well in advance and circulated to the faculty members and students through the academic calendar. At the beginning of each semester, the academic calendar is approved by the Principal and circulated to all faculty members and students.

The academic calendar provides the commencement of the classes, last working day, duration of the semester, schedule of Internal Assessment Tests / Model Examination, End Semester Examinations, online feedback, General Counselling, Annual Day, Sports Day and Holidays. Based on the academic calendar the department plans the Seminars, Conferences, Workshops, Guest lectures and Industrial Visits. If there is any deviation in the schedule due to unavoidable reasons, then the event may be conducted with the approval of the HoD and Principal at a later date.

Curriculum Delivery Plan and Implementation

Course Allocation:

Before the commencement of every semester, the course competency matrix is formulated. The course allocation is done based on the choice/expertise of the faculty members by the HoD. For each course, a subject expert is identified as a course coordinator.

Faculty Preparation Program and Course File:

Faculty Preparation Program (FPP) is prepared by the faculty members based on the course allocated to them. They prepare a detailed lesson plan, handouts, assignments questions, question bank, answer keys, previous year university question papers and quiz questions. FPP is reviewed by the course coordinator and it is approved by the IQAC Coordinator, Head of the Department and the Principal. At the end of the semester, in addition to the contents present in the FPP, Internal Assessment Tests and Model Exam question papers, answer keys, sample answer scripts, student's marks, sample assignments, action taken for the slow learners, content beyond the syllabus, log book faculty members use various pedagogical methods for effective teaching and learning processes like Conventional Learning, ICT Based Learning, etc.,

File Description	Document
Upload Additional information	View 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: 45

File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Other Upload Files

1	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: 57.93

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
447	349	355	456	485

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:

Response:

Being Anna University, Chennai affiliated institute, the curriculum prescribed by the university is followed. Crosscutting issues relevant to ethics, environment and sustainability etc., are integrated into the AU curriculum across all UG programs. The Gender, Human Values. The Crosscutting issues like Gender equality, Environment and Sustainability, Human Values and Professional Ethics are well integrated into the Curriculum prescribed by AU, and listed below:

Program Name	Core Course Name	Integration to	
Civil	Environmental Science Engineering	Environment	
EEE	Human Rights	Human Values and Gender	
EEE, MECH, CSE	Total Quality Management	Professional Ethics	
EEE, MECH	Principles of Management	Professional Ethics	
ECE	Professional Ethics in Engineering	Professional Ethics	
CSE	Intellectual Property Rights	Human Values	
MECH	Planning and Cost Estimation	Sustainability	

Professional Ethics and Human values

Because of promoting professional ethics among engineering graduates, the AU has introduced professional ethics as an elective course. Even though it is in the academic curriculum the college takes efforts to integrate ethical and human values through extracurricular activities such as personality development, yoga, meditation etc.

The institute is organizing various programmes under NSS, YRC and RRC to inculcate human values

among students. Different activities like guest lectures, seminars and workshops relating to professional ethics and human values have been organized for students.

Apart from this, industrial visits are arranged for the students to know about the work culture and practices in the industries. Every year, in summer and winter vacations, the students are encouraged to undergo internships and training in leading organizations.

Gender

The institute understands the importance of Gender equality and thus maintains a 55:45 ratio of women to men in the workforce in both teaching and 70:30 in non-teaching. Also, as per the admission analysis girl to boy student ratio is 35:65.

Institute has organized various workshops and invited talks on Woman Empowerment, Laws for Women, the Role of Women in Nature Conservation, The Sexual Harassment of Women in the Workplace, etc.

Environment and Sustainability

One block on the campus is established as Green building. Digitizing the regular activities is encouraged. The usage of plastics is avoided inside the campus..Mini Marathon was conducted to insist the public avoid plastics. Students are motivated to do more projects related to environmental issues and find solutions to them. A clean and Green environment is made inside the college campus. The students of NSS has been involved in Tree Plantation, Maintenance of garden under Green campus initiative. Through NSS and Rotaract clubs, health and hygiene camps are organized to create awareness among the public in rural areas. Students are motivated to develop projects which can help to reduce air pollution and sustain a pollution-free environment. An Eco Air Cooler project was done by our Civil Engineering students using Mud pot in place of Electric operated conventional AC. The mud-pot, which effectively cools the microspace around us instead of the whole room, thus reducing the energy consumption as a whole. Vetiver shutters are provided in the windows of Green Building, which acts as a natural cooler for the rooms

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

Response: 70.32

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

Response: 417

File Description	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
Action taken report on the feedback analysis	View Document
Provide Links for any other relevant document to support the claim (if any)	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: 52.07

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
189	91	87	148	266

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
300	300	300	300	300

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
Provide Links for any other relevant document to support the claim (if any)	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: 75.46

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
189	91	87	148	266

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
207	207	207	207	207

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
Provide Links for any other relevant document to support the claim (if any)	View Document

2.2 Student Teacher Ratio**2.2.1 Student – Full time Teacher Ratio
(Data for the latest completed academic year)****Response:** 8.01**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:****Response:**

Our institution takes an effort in teaching the learning process towards a student-centric approach by adopting various suitable learning methodologies to facilitate lifelong learning.

Experiential Learning:

- Every student is made to have an experiential learning path through each curriculum imparted in theory and practical subjects based on Bloom's taxonomy level.
- Every semester departments organize Industrial Visits and arrange Internships in a company to gain exposure to industrial practices.
- Students are encouraged to participate in internal/external college workshops, National conferences/International conferences etc.
- Students are made to carry out mini Projects and main projects to have more experiential learning
- Value-added courses and workshops are organized to gain hands-on experience in the latest technologies.
- Guest lectures by eminent industry experts are arranged to facilitate students to acquire real-time knowledge of recent technologies.
- Internal Quality Assurance Cell (IQAC) is built to ensure quality education at the institutional level through continuous reviews and periodic meetings.

Participative learning:

- Students use LMS (Learning Management Systems) platform for accessing online Lecture Tutorials.
- To improve existing instructional methods by exposing students to real-world situations through role-play learning.
- Students are encouraged to participate in national and international level competitions, conferences, seminars and workshops within and outside the college.
- Students are motivated to participate in various competitions , Swatch Bharath projects, and Professional Society Events where students can explore their ideas and innovation towards awards and achievements.
- Seminars, Industrial visits and Guest Lectures influence them to understand the concepts and the subsequent process implementation in the appropriate way.
- Innovative Project Cell (IPC) helps the students towards ideation and implementation.
- Through various club activities, the spirit of teamwork and social responsibility is instilled among students.
- Project work in collaboration with industry conducted by students helps them acquire practical knowledge and enhance their knowledge through interaction with industrialists/scientists.
- To acquire knowledge of recent technologies, students enroll themselves in different research centers.

Problem-Solving Methodologies:

- Tutorial classes form a part of the course delivery to inculcate problem-solving skills among the students to supplement the regular teaching-learning process.
- The problem-solving ability is further emphasized by incorporating questions on case studies in the internal assessment tests and model exams and involving them to solve the problem posed by the industry.
- Free Internet access in the library and Wi-Fi facilities on campus promote the habit of self-learning and discussion among the students.
- In addition to general aptitude and logical reasoning classes, second and third-year students are offered value-added programs which improve their problem-solving skills.

- Programming contests are conducted on monthly basis to help students improve their programming skills.

File Description	Document
Provide Link for 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
74	70	74	74	74

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	View Document
Provide Links for any other relevant document to support the claim (if any)	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: 17.76

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
13	13	13	13	13

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
Provide Links for any other relevant document to support the claim (if any)	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:

Response:

The Examination Cell is an important part of academic work.

- Formation of exam committee Members - HOD & Principal.
- Circulars, Guideline, Office Order, and Notification received by Anna University are dispatched to all departments with the Principal's signature
- Distribution of consolidated mark sheet, Provisional and Degree Certificates to students.

Conduct of Internal Assessment Test / Model Examination (UG)

- Conduction of two Internal Assessment Tests and Model Exam for the UG programme as per the academic calendar.
- The subjects handling faculty are directed to prepare question papers (2 sets - Unit Tests & 3 sets - IAT) as per IQAC.
- The question paper selection process will be done by the Dean of Academics and the principal.
- Preparation of Invigilation duty, Hall & Seating arrangements
- Formation of Monitoring / Enquiry committee for the examinations.
- Process of central valuation and overall result analysis.
- Assessment mark entry in the University web portal will be done periodically.

Procedure for Conducting University Practicals / Viva Voce Examinations

- Chief Superintendent for conducting practical examinations appointed by the Principal.
- Conducting University practical examination for each semester, a circular is sent to all HODs for the details of internal examiners and the Zonal office appoints the external examiner for each

practical lab/viva voce.

- The practical examinations are conducted batch-wise. The External / Internal examiner set the question papers, value the answer scripts and award marks.
- The mark statements are prepared and signed by both the examiners and it is sealed in separate covers along with question paper and handed over to the Exam Cell.
- The External and internal examiners conduct the viva voce for the project as per university protocol.

Conduct University Theory Examinations

- Candidates are permitted to appear for the semester examination after they registered for the examination in all courses according to Anna University regulations.
- The list of students who opted for elective subjects is uploaded to the University web portal after Principal approval.
- Odd semester during November / December.
- Even semester during April / May.
- The Chief Superintendent is appointed by the Principal.
- The examination schedule and fees circular are displayed in Notice boards.
- Anna University Representative from neighbouring colleges is appointed by the Zonal office.
- Question papers are issued by the University in sealed covers and opened at least 10 minutes before the scheduled time by CS & AUR.
- Invigilation duty, Hall & Seating arrangements and hall ticket distribution - by the Exam Cell as per University requirements.
- The sealed covers are handed over to the Zonal office by the Chief Superintendent through University Representative.
- Any malpractice of the candidate is booked and reported by the hall superintendent to the Chief Superintendent/COE.
- The University releases a circular to inform the commencement of central valuation.

Students Grievances:

- Grievances identified in internal examinations for the student are rectified by CS and the Principal.
- Grievances identified regarding the Anna University Examination such as applying photocopy, revaluation and review process for the results they obtained, and other grievances like the correction in the grade sheet (DOB, printing mistakes, duplicate grade sheet, etc.) are rectified by COE of Anna University.

File Description	Document
Provide Link for 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:**Response:**

The Process has outlined the learning objectives for each of its academic programmes and courses in great detail. The goals of Outcome Based Education (OBE) following extensive consultation with all the faculty members. COs are straightforward declarations that outline the fundamental and enduring discipline knowledge, the skills students should have, and the level of learning expected at the end of a course. The course outcomes are provided by the university and each course in the program consists of five to six-course outcomes by considering the POs and PSOs of our department. They are specified and communicated. Finally, they are discussed in the meeting course-wise and approved. Students are also educated and provided with the detailed syllabus and course outcomes in each course and the assessment strategy for each course.

Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes are made aware through the following procedures.

- POs and PSOs are approved by the Department Advisory Board. POs and PSOs are available on the Institute website.
- POs and PSOs are displayed in corridors, classrooms, Department offices, Laboratories and the Department library of the campus for staff, students and public view.
- During the department review meeting the attainment of COs, POs and PSOs is reviewed, among faculty members.
- At the first course committee meeting the corresponding faculty members discuss the assessing methods of each course outcome and prepare the mapping with the POs and PSOs
- In the remaining 2-course committee meetings the co-attainment level is checked and coaching portions would be decided.
- The Pos and PSO's relevant feedback has been collected from the parents during Parents Teachers Meeting.
- The outcomes are elaborately discussed and derived by the course committee members. Even though the COs is given by Anna University along with the syllabus, if necessary, the COs are modified and reframed by the course committee members. The program advisory Committee analyses course outcomes and their mapping with program outcomes and program-specific outcomes done for each course by the course handlers along with one subject area expert. Course Outcomes (COs) are finalized at the Department Advisory Board meeting (DAB). COs are communicated to the students during the introduction class itself. COs along with lesson plans are printed and issued to the students during the first class. During the class committee meetings, the Cos attainment levels are discussed and the measured outcomes of the course are also focused on. During the commencement of each unit and after the completion of the unit, the course outcomes evaluating methods are reviewed.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2 Attainment of POs and COs are evaluated. Explain with evidence in a maximum of 500 words**Response:****Response:**

The Process has outlined the learning objectives for each of its academic programmes and courses in great detail. The goals of Outcome Based Education (OBE) following extensive consultation with all the faculty members. COs are straightforward declarations that outline the fundamental and enduring discipline knowledge, the skills students should have, and the level of learning expected at the end of a course. The course outcomes are provided by the university and each course in the program consists of five to six-course outcomes by considering the POs and PSOs of our department. They are specified and communicated. Finally, they are discussed in the meeting course-wise and approved. Students are also educated and provided with the detailed syllabus and course outcomes in each course and the assessment strategy for each course.

Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes are made aware through the following procedures.

- POs and PSOs are approved by the Department Advisory Board. POs and PSOs are available on the Institute website.
- POs and PSOs are displayed in corridors, classrooms, Department offices, Laboratories and the Department library of the campus for staff, students and public view.
- During the department review meeting the attainment of COs, POs and PSOs is reviewed, among faculty members.
- At the first course committee meeting the corresponding faculty members discuss the assessing methods of each course outcome and prepare the mapping with the POs and PSOs
- In the remaining 2-course committee meetings the co-attainment level is checked and coaching portions would be decided.
- The Pos and PSO's relevant feedback has been collected from the parents during Parents Teachers Meeting.
- The outcomes are elaborately discussed and derived by the course committee members. Even though the COs is given by Anna University along with the syllabus, if necessary, the COs are modified and reframed by the course committee members. The program advisory Committee analyses course outcomes and their mapping with program outcomes and program-specific outcomes done for each course by the course handlers along with one subject area expert. Course Outcomes (COs) are finalized at the Department Advisory Board meeting (DAB). COs are communicated to the students during the introduction class itself. COs along with lesson plans are printed and issued to the students during the first class. During the class committee meetings, the Cos attainment levels are discussed and the measured outcomes of the course are also focused on. During the commencement of each unit and after the completion of the unit, the course outcomes evaluating methods are reviewed.

- **Attainment of Course Outcomes**

Assessment is carried out by the department periodically to identify, collect, analyze and evaluate the data towards the achievement of Course Outcomes (CO). For the calculation of

CO attainment, data from various theory Courses, lab Courses and project Courses are taken into consideration. For all the courses, 20% weightage is given for Internal Assessment and 80% weightage for External Assessment. The process for course outcome assessment is depicted in mentioned Figure

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

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

Response: 89.09

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
120	218	188	211	202

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
136	231	206	247	234

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
Provide Links for any other relevant document to support the claim (if any)	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.9

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: 3.14

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
1.8	0.99	0.35	0	0

File Description

Document

Upload supporting document

[View 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:

Response:

SRRCET has established the knowledge generation, and transfer ecosystem including an Incubation Centre through the various centres. To achieve the goal, to become an entrepreneurship start-up and ideation hub, SRRCET has signed the MOUs with various firms, to conduct various skill development programs, in turn, achieve the goal to make the students an entrepreneur. Through innovative ideas and suggestions for solving pressing issues, the academic and research capabilities of SRRCET continuously contribute to the Innovation Ecosystem and inspire students to become entrepreneurs. SRRCET provides the space to do start-up and rendering help in terms of sharing the labs free of cost. As well as initiated, incubation and pre-incubation facilities for faculty-driven start-ups and student/Alumni/Public start-ups. In the way to achieve the goal of entrepreneurship, SRRCET continuously organizes guest lectures, seminars and workshops, and motivational talks for students, faculty and alumni to promote Entrepreneurial Culture. It provides a platform for students to develop innovative products with global recognition and generate business opportunities and also to generate revenues through consultancy work and student start-ups.

SRRCET expects the outcome in terms of valuable publications, patents and policy of creating the types of

equipment under the banner of Make in SRRCET. Entrepreneurs introduce innovative technologies for starting a business opportunity to either work for themselves or they can help support and develop an entrepreneur's business. Entrepreneurs are not only able to generate an income for themselves but they also employ other individuals in their business operations through SRRCET.

Therefore, people who did not have a job before will have a chance to have a career. Increased competition in an economy is advantageous because firms and individuals will source methods to better improve their operations. The new business formation of entrepreneurs with high-growth ambitions and innovation will push established firms to increase their productivity and enhance their performance. Higher earnings due to entrepreneurship can help boost national income.

Providing shared workspace:

We provide the shared workspace to our Incubates on the campus itself.

Mentoring:

A faculty member of SRRCET mentors closely monitors the product development of the incubated company.

Incubation Space:

We provide furnished air-conditioned space to our Incubates. Besides this, we also have our Seminar/Conference Halls.

Library and Documentation:

The Incubates through our centre can have access to the library of SRRCET free of cost. To fully operationalize the goal to achieve valuable publication, patent and consultancy work SRRCET is been facilitated with the six research centres to achieve the specific goal.

Innovative Project Cell

Students have been actively involved in the area of finding new innovation as part to full fill their academic credentials through their projects under the banner of Innovative Project Cell (IPC).

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: 44

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
08	10	09	10	07

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:** 0.76**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
14	5	10	12	15

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	View Document
Link to re-directing to journal source-cite website in case of digital journals	View Document
Links to the papers published in journals listed in UGC CARE list or	View 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:** 0.08**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
2	0	1	1	2

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:****Response:**

Sri Raaja Raajan College of Engineering and Technology is an active participant in conducting various holistic extension activities programs for their students and the nearby villages. SRR CET has the following active clubs and NSS to nurture and create social, holistic development among mankind. The notable clubs which serve and fulfil the task of holistic development across mankind are Rotaract, YRC, RRC and Women Empowerment Cell.

In a line with the above, SRR CET has conducted the following NSS programmes in nearby villages:

- Temple Renovation carried out at Kotturpuram Village.
- Village cleaning of sadayankaddu.
- Health camps and awareness programs conducted on the usage of plastic waste at Kotturpuram Village.
- Blood camp at Anbu Ramachandra hospital, Devakottai.
- Donated food and dresses for Annai Saradha special school, Devakottai.
- Village Cleaning camp at kallupatti
- Blood donation camp at Narumugai Hospital, Devakottai.
- Temple Renovation carried out at kandadevi temple, Devakottai.
- Dengue awareness Programme in GHSS, vishalankottai.
- Agricultural awareness programme in GHSS, vishalankottai.

- Awareness of tuberculosis visited patient in Government TB hospital Amaravathipudur.
- Village cleaning of Amaravathiputhur.
- Provided Rice bags for affected people in Rameswaram, during CORONA pandemic.
- Rs. 1 Lakh given to CM relief Fund during CORONA pandemic.
- Eye Camp and Blood Donation camps have been organized in nearby villages.
- Tree Plantation has been done 8 times during the 5 -year period.
- Drug Awareness Rally has been organized in Amaravathiputhur.
- Road Safety Programme has been organized in Amaravathiputhur.

Our Civil students have done analysis on “Mineral content in Water” by taking water samples from different locations of Sivagangai District and the report is shared to the district authorities for further purification action.

Impact:

The above activities done by our students has created awareness about the Drug effects, Safety and Health to the near-by village people. Also timely contribution during COVID has really helped the needy people during CORONA pandemic. The other Impact to our students includes:

1. Sense of Commitment
2. Involvement of Citizen
3. Collaborative Effort
4. Prospect to be a part of the community
5. Leadership potential

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

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

Response:

Response:

We at Sri Raaja Raajan College of Engineering and Technology (SRR CET) have not only scored great accolades in academics alone but in the view to create a holistic environment, through extension activities our clubs are anticipating various social awareness programs in the name of extension activities.

Rotaract, YRC,RRC and NSS give exposure to all sets of student domains in various events and initiations to achieve and learn the inline concepts related to conceptualizing, planning and execution. The main objective behind this join movement was that built youth leadership with the futuristic process, secondly develop responsible youth for the future – engaging in national building, thirdly skilling and training of youth, and finally, be the voice of young India.

During COVID pandemic period, Rice bags were issued to villages in Aranthangi and Ramanathapuram Districts, through NSS.

Also Rs. 1 Lakh was given to Chief Minister’s Relief Fund. Blood Donation Camp was Organised by our YRC team. Also our NSS team was awarded with **Best NSS Award 2022**, for the activities performed to nearby villages.

Intellectual property rights are concerned as robust and enforced, to safeguard families and consumers. Informed customer decisions concerning the security, dependability, and efficiency of their transactions are made possible by strong and sound IP rights.

Almost all the students of SRRCET have taken the pledge to possibly reduce the conventional way of power production in the view to curb the usage of fossil fuels in such a way, becoming an entrepreneur by installing solar plants for various applications.

By developing new goods and services as well as encouraging new employment for humankind, SRRCET eventually accelerates economic growth through various means. Therefore, it makes sense to see the public policy that promotes and supports entrepreneurship as crucial for economic growth.

Benefits of Awards and Recognitions:

- Increase motivation
- Show appreciation
- Encourage friendly competition
- Improve productivity

Create a positive environment

File Description	Document
Upload Additional information	View Document
Provide Link for 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: 94

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
20	14	20	20	20

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View 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
Provide Links for any other relevant document to support the claim (if any)	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: 26

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View 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:

Response:

Academic Wings

Sri Raaja Raajan College of Engineering and Technology is stretched over an area of 13.47 acres in a green, clean, neat and spacious environment. It is a fully self-contained campus with requisite infrastructure based on AICTE norms. James Watt Block (Green Building), Faraday's Block, M.Vishveshwarya Block, S.P.Chakravarti Block, and Sundar Pitchai Block form the major academic wings with modernized classrooms and ICT facilities, laboratories, seminar halls, meeting rooms/board rooms, tutorial rooms that are adequate to provide a good learning ambience to students. To nurture learning, a wide array of sophisticated equipment is available in all the laboratories.

Research Centres

To organize and motivate co-curricular and extra-curricular activities the campus has seminar hall and Multipurpose Indoor Auditorium. To foster research activities, the institute has channelized and formed 6 research centres in various domains. They are the Centre for Robotics, Centre for Cyber Security and Cloud Computing, Centre for Artificial Intelligence, Centre for Electric Vehicle & Energy, Centre for Image Processing and Centre for IoT.

Internet connection

The college has a dedicated 50 Mbps leased line connectivity from BSNL and Do communication for providing uninterrupted internet services to the systems. There is a separate server room which provides all network connectivity, and administrative services throughout the campus. The entire campus is Wi-Fi enabled with secure login mechanisms.

Central Library

To inculcate the habit of reading, the central library has a wide collection of books, magazines, and journals in the central library. It has been automated. Apart from the textbooks and reference books that are specified in the syllabus, books related to recent technologies and advancements in all fields of engineering, books for personality development, books to prepare for GATE exams, and TOEFL, GRE, and GMAT exams are also available. To patronize the spirit of perpetual learning a digital library is

functioning inside the central library. The students can access e-books, e-journals NPTEL videos in this digital library.

Miscellaneous facilities

The Amenities and facilities also include a well-maintained lawn, ramp, garden, health care centre, first aid facilities, fire extinguishers, sanitary napkin vending machines. The campus also has CCTV surveillance at all strategic locations, generators and RO water purifiers. The spacious and well-maintained canteen provides delicious and hygienic food. The entrepreneurship development cell, innovative project cell, and Training and placement cell provide consistent support and motivation to the students for their self-development.

Recreation facilities

The institute has excellent sports facilities for both indoor and outdoor games. It includes a cricket ground, football ground, volleyball court, basketball, hand ball, badminton court, table tennis court, and facility to play throw ball, chess and carom. Yoga Centre and Fitness Centre are available with all the essential equipment to do gymnasium and yoga. All the dimensions of these play areas are as per the national and international standards. The hostel provides a homely environment for the hostellers.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

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

Response: 4.95

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
0	50.3	0	0	0.5

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:

Response:

The institute has well equipped, spacious library with a carpet area of 4256 sq. ft. with a rich collection of engineering books including national and international journals, periodicals, and magazines in Mathematics & Sciences, Engineering and Technology, Humanities and Management ranging from printed books, e-books to back volumes and CDs\DVDs. The Central Library subscribes to national and international journals in print and e-Journals. The reading room facility is available for students. The reading room is 1000 sq.ft. with a seating capacity of 100 students. It has about 5305 titles, more than 13010 Volumes, 47 National Journals, 12 International Journals and 23 Magazines 583 Back volumes along with 5 newspapers, 132 E-books and 112 E-journals.

ILMS –Library Automation (DigitalLib)

The main objectives of our library automation are to provide a quality service to readers and to establish an efficient book storage system. The library is fully automated with Integrated Library Management System (ILMS). The institute always strives to provide the latest and best collection of books, journals, and online resources to students.

Scanning Technology: Central Library is using Systems Applications and Products software for Library automation and has implemented bar-coded scanning. All the books are bar-coded and bar-code laser scanners are used at the circulation counter for book transactions. After entering the details regarding the books/journals into the database, barcodes are printed on the adhesive labels according to the accession number of the book/journal. The polyester barcode label has been pasted on the lower bottom of the title page and the last page of the book. User ID contains the bar-coded library reference number of the staff and students.

Circulation Control: Students can check the availability of books by searching through titles or authors. Students can also access physically the stack area. The entry is made in Library Management System software through student login and the book is registered and issued. As per the regulation of statutory and affiliating authorities, textbooks and reference books are made available in the library.

Subscription to e-resources

The college Central library has various institutional memberships for e-resources and e-Journals. The Institute has a membership for National Digital Library (NDL, DelNet and INFLIBNET) Active local chapter and a Digital Library with a 50 Mbps leased line connected to computers in the library. Faculty Publications, Patents and Student publications are accessible in the library. NPTEL video courses, the Swayam Programme and other E-Learning resources initiated by the Government of India.

Usage of Library

We can generate and print more reports like books issued and return reports, book reports categorized by accession number, author, subject, department, supplier and publisher, title, and availability. Monthly reports and Yearly report facilities are also available in the Integrated Library management system (DigitalLib). The average users of Library per day are 250.

File Description	Document
Upload Additional information	View Document
Provide Link for 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:

Response:

Computing Resources

Sri Raaja Raajan Cillege of Engineering and Technology has excellent IT facilities for students and faculty. 210 computer systems are available on the campus with a LAN connection. The highly configured system available is Lenovo i7processor with 16 GB RAM and 1 TB HDD. There are 2 servers available in the server room to provide network connectivity in the campus.

Wi-Fi and Internet

Internet facility is provided through BSNL and Do Communication with a bandwidth of 50 Mbps. By estimating the volume of data transmission, the bandwidth will be further increased during an ad hoc situation. For essential services, BSNL service as a backup with 50 Mbps is available. The computers in the different blocks are interconnected with LAN through switches. The entire campus including the hostel block has various Wi-Fi access points to access educational resources through the Internet and intranet service.

E-Services

LMS is effectively used as a Learning Management System by faculty and students for the teaching-learning process. Class notes and assignments are uploaded in LMS. Attendance maintenance is done in LMS. The college website provides all the essential information for the stakeholders. In case of emergency, Google Classroom is used for the teaching-learning process. In an ad hoc situation, the class notes, and assignments are uploaded to Google Classroom. A bulk SMS facility is also available to communicate an important message to all students and faculty. Training programmes to upgrade the programming skills and coding skills of students and faculty are periodically organized. To organize Webinars and alumni talk series collaboratively and comprehensively through ZOOM rooms. Faculty creates videos on important topics in a subject and they are uploaded to the college YouTube link. To provide solutions to industrial problems,

Updating the IT facilities

Based on the gradual increase in the intake of students, the number of systems in all the laboratories are updated. As per the AICTE norms, the student-to-computer ratio is maintained at 4:1. To carry out research and project activities, highly configured i7 systems are provided in the future tech research centres on the campus. Based on the requirements, necessary software and hardware devices, computer systems and peripheral devices are purchased. To nurture the students to learn advanced technologies like virtual reality, essential accessories are provided.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

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

Response: 3.21

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

Response: 185

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
Provide Links for any other relevant document to support the claim (if any)	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: 18.11

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
34.2	39.5	20.2	30.6	61.5

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: 76.71

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
471	453	491	629	726

File Description	Document
Year-wise list of beneficiary students in each scheme duly signed by the competent authority.	View Document
Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).	View Document
Upload policy document of the HEI for award of scholarship and freeships.	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	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
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	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: 20.13

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
105	94	165	188	175

File Description	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
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: 97.11

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
121	90	173	142	45

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
132	92	173	144	47

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	View 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
Provide Links for any other relevant document to support the claim (if any)	View Document

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

Response: 29.41

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
1	0	1	2	1

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

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: 41

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
7	3	7	13	11

File Description	Document
Upload supporting document	View 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: 8.4

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
07	07	10	11	07

File Description	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:

Response:

The role of Alumni at Sri Raaja Raajan College of Engineering and Technology is very vital and the Institute has very good rapport with the industry and alumni from its inception. The Prime objective is to

enrol all alumni as members of the association and facilitate the active participation of the alumni in appropriate activities, events, and initiatives of the Institute. The SRRCET Alumni Association (SRRCETAA) is a registered body aims to link the alumni to the institution, develop synergistic plans to support the institution and achieve its vision, and enable the institute to add value to all its stakeholders. The Institute established an alumni cell in 2015 to maintain a good linkage between the institute and alumni. Regular Alumni meetings and Interaction with alumni are done frequently by conducting various webinars, seminars and guest lectures. The alumni association helps in building a network of alumni and helps in being in touch with the corporate world. Every year Alumni meeting is hosted by the Alumni association and supported by the Management where the alumni from different branches are invited to share their views and suggestions on the scope of their course and also to create awareness about the professional world. This paves an opportunity for the alumni to meet other alumni and cherish their past experiences and moments. The Alumni Association provides an avenue for sharing their intellectual, career and professional experience not only with the teachers but also with the present students. The following are the activities carried out with the help of Alumni.

Curriculum Enrichment: Alumni are involved in curricular gap identification and the development of value-added course modules. The webinars are being taken on technical topics by alumni.

Interactive Sessions: The alumni association helps in holding interactive sessions to motivate current students about employability and educational opportunities abroad. They share their opinions on social network Industry connect: The alumni who are entrepreneurs arrange industrial visits to the students and provide inputs on how to start a new venture to turn them into job providers. The Alumni extend their support for student internships.

Mentorship: Alumni can play an active role in voluntary programs like mentoring students in their areas of expertise. To utilize the rich experiences of old students of the college for the benefit. To assist the students in securing suitable jobs.

Placements/ References: The alumni network of a college is one of the biggest sources of placement opportunities for students. Alumni can help students in referring to companies and get placed at their respective organizations. Alumni will be a recruiter in reputed companies in which he will be guiding students to get placed.

Generosity: The association also plays a significant role in contributing scholarships to deserving students. Another activity of the Alumni is they donate trees for making the institute's environment green. Major visible additional activity of the alumni is by providing donations to the college.

Administration: Alumni are members of IQAC and provide inputs for imparting quality systems adaptive to recent trends and requirements of the industry.

File Description	Document
Provide Link for 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:

Response:

Vision Statement

- To function as a center of excellence with world-class instructional and infrastructural facilities to realize the vision of producing highly disciplined, talented students to serve humanity in unparalleled style.

Mission Statement

- To produce exceptionally competent professionals through personalized teaching and graduates who are ethically upright and educationally bright to render service of global standards.

Nature of Governance

The College Governing Council (CGC) is an integral part which steers the institution towards academic excellence with a holistic approach. The governance of the Institution is reflective of effective leadership in tune with the vision and mission statements. The established policies in the Institute ensure the integrity and effectiveness of the governance and administration. The Institute believes in shared leadership and a participative decision-making approach. This reflects the decentralization of its operations and the delegation of the necessary authorities and responsibilities. Such delegations follow a systematized organizational structure which laid down job responsibilities. SRR CET-CGC encourages participative management by involving faculty members in taking decisions. So, various verticals have been formulated for the effective functioning of the institute. Each vertical has independent heads taking decisions in line with institute policies and regulatory requirements in consultation with the Principal/Management. The committees are as follows.

- College Governing Council,
- Grievance Redressal Cell,
- Internal Compliance Committee,
- Anti-Ragging Committee
- IQAC Exam cell,
- Counselling Cell,
- Programme Assessment Committee,
- Training and Placement Cell
- Co-curricular and extra-curricular clubs
- Innovative project cell,

- Budget Review Committee,
- R&D cell,
- Women Empowerment cell

Perspective Plans:

A 360-degree perspective plan has been developed by an IQAC which considers important factors i.e. structure, mechanisms and stakeholders within the system. This strategic plan will act as the guideline for the decentralized committees and those decentralized committees have to work towards the attainment of the laid out plan. The entire process is based on a participative approach wherein the decentralized committees, faculty members, and other stakeholders are involved in the development of plans and their efficient execution. The summary is as follows

1. Enhance engagement with Society
2. Diverse Student learning environment
3. Enhance engagement with Industry
4. Improve internal support systems
5. Enhance alumni engagement
6. Develop a clean and green campus
7. Enhance Research Culture
8. Academic Autonomy and Industry-Oriented Curriculum

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:

Response:

Institutional bodies

Various institutional bodies for the efficient and effective functioning of the institutes are

- College Governing Council,
- Grievance Redressal cell,
- Internal Compliance Committee,
- Anti-Ragging Committee,
- IQAC,
- Exam cell,
- Counselling Cell,
- Programme Assessment Committee,
- Training and Placement Cell,
- Co-curricular and extra-curricular clubs,
- Innovative project cell,
- Budget Review Committee,
- R&D cell,
- Women Empowerment cell.

Administrative setup

The organizational chart and functioning of various administrative roles attached

Deployment of institutional Strategic Plan

The strategic plan deployed under 8 verticals as follows

S.No.	Strategic Plan	Sub Plans
1	Enhance engagement with Society	NSS, YRC, Various Clubs,
2	Enhance engagement with Society	ICT-based TL, Value Added courses, MOOC Certification
3	Enhance engagement with Industry	Guest Lectures, Internship, MOUs, Industrial Projects, Industry Support, etc.
4	Improve internal support systems	MIS, LMS, Effective Implementation of Moodle's, etc.
5	Enhance alumni engagement	Registered Alumni Association, Alumni Meet, Alumni Contributions, etc.
6	Develop a cleaner and greener campus	Solar, LED, All types of Waste Management, Green Landscaping campus

7	Enhance Research Culture	R&D Policy, Paper in Scopus/ reputed Journals and Advanced Centres for Research / Future Tech Labs.
8	Academic Autonomy and Industry-Oriented Curriculum	ISO Certification, AISHE, Skill development Courses having Industry oriented Curriculum

One Activity Successfully Implemented Based on the Strategic Plan - Case Study – Problem Box - Industry Institute Interaction:

Strategic Plan:

We understand that we have to make the students industry-ready engineers. Problem Box is one through which the industries posted their problems and SRR CET students and staff solve the same, also can have a strong relationship between various companies and institutes and make the people industry-ready. This has shown promising results in both the quality and quantity of participation of students and staff from all departments.

Objective: To improve the skill set and to produce industry-ready engineers through Problem Box.

Problem Box: A platform is created for easy communication between companies and industries. A team of faculties members and students from various departments are formed they are made to enroll in the platform along with the companies. The companies post their problems which will be taken up by the staff and solved.

Deployment:

The students/faculty members take up this at any time they want either as a project for academic purposes or else based on their interest.

Outcome:

It enables them to improve the problem-solving skills of the students. It helps the students to get an idea about how to prepare for placements and ways to equip themselves to enable them to be employable

By sharing the score with the employers the students get to exhibit their skills to employers which helps them to get job opportunities.

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
Provide Links for any other relevant document to support the claim (if any)	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:

Response:

Effective welfare Measures for Teaching/Non-Teaching Staff

Teaching and non-teaching staff play a vital role in the growth of the institute and therefore, Institute is recognizing their productivity and acknowledges their needs and requirements regularly. So, an institution is implementing various effective welfare schemes. These are enriching the physical and mental health of the employees and thus promote a dynamic and encouraging work atmosphere.

Financial Benefits

- Every year, two departments are selected as a winner and runners based on their performance and encouraged with a cash prize of Rs.5000 and Rs. 3000 per faculty respectively.
- Faculty members who produce Cent percent results are rewarded with Gold Coins.
- Post-appraisal incentives are provided for best-performing staff.
- Best Non-teaching staff and driver awards are given with cash prizes.
- PhD allowance of Rs.5000 is given.
- Gifts are given to all staff members every year during the College Day Celebrations.
- Marriage gift and advance for staff members.

- Financial support to enhance knowledge.
- Two sets of free Uniforms are provided for Non-Technical staff.
- Maternity leave for women Staff.
- Special leave for religious festivals.
- Celebrations of festivals on the campus.
- Monthly one-day Casual Leave and two one-hour permission are allowed to avail.

Non-Financial Benefits

- Free Transport facilities for all.
- Subsidized canteen facility for breakfast
- Car facilities and allowance for senior staff members.
- Medical room available on campus.
- Free accommodation in the hostel for out-station employees.
- Free wifi available.
- Providing On-duty for attending skill enhancement.
- Non-doctoral faculty members are encouraged to enroll for PhD.
- Providing membership fees.

Performance Appraisal

Performance Appraisal is a process which is used to evaluate the employees and germinate their competence, improve their performance, and assign rewards. The institute follows an Appraisal system to evaluate the performance of teaching as well as non-teaching faculty. The Appraisal system consists of three different stages.

Stage I :

Appraisal forms are circulated to the staff and based on KPI, points are awarded out of 150 by the staff. The filled form will be submitted to the appraisal committee.

Stage II:

In the second stage, the Principal and HODs will make entries on the online feedback marks awarded by the students. Principal reviews and assesses the overall performance based on academic performance, quality of para-academic work and ability to work as a team.

Stage III:

In the third stage, the Principal and HOD along with management will grade the faculty members based on their performance in that academic year and also reviews all the process involved in the performance appraisal system by having the one to one interaction with the staff and decisions will be taken accordingly.

Performance Appraisal

Performance Appraisal is a process which is used to evaluate the employees and germinate their competence, improve their performance, and assign rewards. The institute follows an Appraisal system to

evaluate the performance of teaching as well as non-teaching faculty. The Appraisal system consists of three different stages.

File Description	Document
Upload Additional information	View Document
Provide Link for 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: 50.82

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
44	32	22	40	48

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	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: 38.17

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
40	35	33	30	25

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
13	11	15	10	12

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

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:

Response:

Mobilization of Funds for various resources:

Funds are mobilized from the following resources.

1. Student Fees, Anna University, Government and Non-Government Agencies.
2. Sri Muthumari Charitable and Educational Trust
3. Interest in Corpus Fund

Budget Planning:

Heads of the departments would submit the budget requirements to the Principal, at the beginning of every financial year. The budget committee analyzes the requirement of each department and prepares a Consolidated Budget and forwards it to the Management through the Principal for approval. The Management allocates the funds under various heads such as the upgradation of library resources, computers, network facilities, sports facilities, publication incentives, salary, placement, campus maintenance, extension activities, etc. based on the need.

The management also allows the funds for training the faculty, staff and students.

Utilization:

The administration and finance committee monitors and audits the budgets, utilization, expenses, accounts etc. They give recommendations for better handling of resources and effective mobilization of available funds. It ensures that the fund utilization is within the limit or allotted margin.

Financial Audit :

The Finance team finally audits the documents every financial year. The audits are being carried out by an external auditor.

Internal Audit is being conducted continuously by the Finance Team members every month. The audit procedure is shown below.

1. Expenses

- a. Vouchers, supporting bills and invoices are verified.
 - b. Approvals and authorization are verified with Instructions
 - c. Accountings of expenses according to the nature of the expenses are verified.
 - d. Actual expenditure is compared with the Budget allocated to evaluate the variation.
 - e. Statutory deductions such as TDS are verified.
2. All the fee pay-in –slips are vouched with the Bank statements.
3. Surprise cash verification is conducted to verify petty cash transactions.
4. BRS Statements are verified weekly.
5. Statements of Sundry Creditor's ageing are verified.
6. Payroll statements along with the attendance registers are verified on monthly basis.
7. Fees receivable statements are verified with the books of account.

External Audit is regularly conducted on an annual basis by the statutory auditors of the Trust. The Procedure is furnished below.

1. All the Expenses Vouchers and their supporting documents are verified...
2. BRS Statements of the financial year are verified to ensure the outstanding payables and receivables.
3. Original Fixed Assets Purchase Invoices are verified and physical verification of statements and payments are verified with the payroll reports provided by the HR Department
4. Salary statements and payments are verified with the payroll reports provided by the HR Department

5. Analytical procedures are followed to assess the overall correctness of the books of accounts

6. Financial statements are audited accordingly

File Description	Document
Provide Link for 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:

Response:

To impart quality education to students and to maintain an effective teaching-learning process, a quality assurance cell has been formed.

Quality Assurance Strategies

- To establish a systematic process in academics and administration
- To impart quality education to students that fosters employability, research and development
- To satisfy the stakeholders by meeting their requirements
- To nurture the skills and talents of budding engineers through training and development activities
- To produce engineers of high quality and ethics for society to meet the industrial needs and standards

Quality Assurance Processes – Case Study-1: - Establish systematic processes in academics and administration

- At the beginning of every year, an academic calendar has been prepared and circulated to all stakeholders.
- Meetings with stakeholders are mentioned and conducted as per the schedule.
- Class and course committee meetings have been scheduled and conducted. The grievances and the comments given in the meeting have been addressed by IQAC.
- College Day and Sports Day are conducted as per the calendar plan. Holidays and special working days are also mentioned.
- Counselling schedules have also been scheduled and the comments given in the reports have also been addressed by IQAC.
- Online feedback has also been scheduled periodically and collected on time.
- Based on the feedback from students, faculty members have been directed properly to overcome the issues.

- Periodic reviews and audits are conducted by the IQAC.
- Orientation programmes have been organized every year for the young and newly joined faculty members to adapt themselves to the systematic process of the institution.
- Internal assessment tests are periodically conducted as specified in the academic calendar. The question paper and the answer scripts are audited periodically.
- Course end survey is conducted at the end of every course, to know about the satisfaction level of the teaching-learning process in each subject.
- By the end of every month, all faculty meeting is organized by the Principal to ensure the smooth run of all activities in each department.

The teaching-learning process that is followed by the college and the improvements that have come about through the effective implementation of the IQAC process is described below:

Case Study 2: Performance Enhancement Classes (PEC):

- To help the students in clearing their arrears, special coaching classes have been conducted on Saturdays (Weekly-off days) for selected subjects throughout the semester.
- Based on the arrears and nature of the subjects, PEC assigned faculties based on their expertise.
- A day comprises 7 periods with a break. Problem-based subjects (mathematics) are allocated the first 2 contact hours, remaining subjects (core) are allocated 3 contact hours. Additional teachers are also allocated tutorial hours for analytical subjects.
- Apart from the arrear subjects, for regular subjects, based on the internal assessment marks, special coaching classes have been conducted beyond regular working hours.

As the outcome of the PEC classes, the results have been improved and the students are clearing their arrear papers.

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
Provide Links for any other relevant document to support the claim (if any)	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:

Response:

- To promote gender equity, our institution established Women Empowerment Cell. All the students are encouraged to participate in various Technical Workshops, Seminars and Symposiums without any gender discrimination.
- Our Chairperson, the driving force behind all the success heads the institution with her innovative approach to learning and knowledge acquisition. Around 55% of the faculty members are women who play key roles in major positions such as Dean Academics, Head of the Departments and Coordinators of various clubs and various centre activities.
- Women Empowerment Cell aims to empower girl students and faculty to enhance their understanding of issues related to women and to make the college campus a safe place for girls and women. The cell brings advancement, development and empowerment to women through Guest Lectures, Seminars, Awareness Programs and other welfare activities since its formation.
- A separate woman Counselor is available in the college to help the students to resolve their issues and help them to live in a safe and secure environment.
- Since its establishment, the institution organizes National Festivals and Birth and Death Anniversaries of great Indian Personalities. The college celebrates these events with great enthusiasm to commemorate the ideology of nationalism and to pay tribute to our great National Leaders.
- Gandhi Jayanthi is celebrated every year on 2nd October to understand the ideology of our great leader Mahatma Gandhi.
- The college celebrates International Yoga Day on the 21st of June every year by conducting a camp or workshop on how Yoga embodies unity of mind and body. Keeping its Indian values intact, the college imparts the right kind of education based on moral values and ethics which makes our students responsible global citizens.
- 15th August Independence Day is celebrated every year with patriotic fervor. The air is filled with patriotic feelings that emit from various songs aired on the campus radio. The program consists of patriotic songs sung by students and speeches eulogizing the great sacrifices made by our freedom fighters.
- 15th September Engineers Day is celebrated on the occasion of the Birth Anniversary of Sir Visvesvaraya. This day on 15th September is celebrated consistently as an exceptional tribute to the best Indian Engineer, Bharat Ratna Mokshagundam Visvesvaraya.
- National Science Day is celebrated on 28th February every year to mark the discovery of the Raman Effect. The college regularly observes National Science Day by conducting Science Exhibitions, Seminars, Quiz competitions etc. associating with the theme of National Science Day every year.

National Mathematics Day is celebrated on 22nd December to honour Dr Srinivasa Ramanujan for his

contribution to Mathematics. The day is observed by conducting Seminars, talks by eminent personalities in the field of Mathematics and exhibitions.

File Description	Document
Provide Link for 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
Provide Links for any other relevant document to support the claim (if any)	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
Provide Links for any other relevant document to support the claim (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:

Response:

India is a diverse country in the universe. Students will remember an important day only if they are told what the occasion signifies. Celebrating events and festivals in our college has become an integral part of learning and building a strong cultural belief. These celebrations bring the students closer to each other's traditions and cultural beliefs and develop respect and understanding for each other's customs and traditions. There are three types of celebrations, namely seasonal, national and religious.

The objectives of celebrating these festivals are:

- National festivals will heighten the patriotic spirits in students, enabling them to grow into better citizens.
- Celebrating a seasonal festival changes students' attitudes towards Mother Earth and nature.
- Religious festivals teach students about the importance of family, tradition and values. It gives an insight into the culture and its principles.
- International festivals will create an increased cheerful ambience and deepen the bonds with other races.

To attain the above-mentioned objectives, Sri Raaja Raajan College of Engineering and Technology provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Different sports and cultural activities organized inside the college promote harmony towards each other. India is a diverse country where people belonging to various cultural backgrounds reside. Therefore, all through the year, our college witnesses a variety of festivals and occasions. A few celebrations are:

Gandhi Jayanthi Celebration: This day is celebrated as the “International Day of Nonviolence” worldwide. The main objective of celebrating this day is to remember the man who showed the world that nonviolence is an effective and lasting way of defeating injustice. He is a great inspiration for truly embodying the principles of tolerance and peace.

“**Matribhasha Diwas**” - International Mother Language Day Celebration: Every year this day is celebrated to promote the dissemination of mother tongues and fuller awareness of linguistic and cultural traditions throughout the world and to inspire solidarity based on understanding, tolerance and dialogue. Various activities like elocution, singing and dance programs were conducted in their mother language.

Pongal Celebration: India is an agricultural country and the majority of the festivals are inclined towards nature. Among the several festivals, Pongal is observed by the Tamil community and It is one of the biggest harvest festivals in India. It can be considered as the 'thanksgiving' festival' because this festival is celebrated to thank the Sun God and Lord Indra for helping farmers in getting better-yielding crops. The objective of this celebration is to share the importance of agriculture and nature.

File Description	Document
Provide Link for 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:

Best Practice I:

1. Title of the Practice: Skill Development courses for enhancing Employability and to promote Entrepreneur Eco-system.

32 Certificate/Diploma/short term courses offered through Jairam Skill Development center created in SRR CET since 2020.

Objective of the Practice:

- To train students in every domain of human activity with a perfect balance of individual growth and community development.

Special Features

1. The student of any discipline can opt any certificate/Diploma course related to any discipline

For example, the Students of Computer science and Engineering students can select Architectural Design of Civil Engineering. Civil Engineering students can select Artificial Intelligence course belong to

Computer Science and Engineering.

1. Engineering Students will get more practical exposure

The curriculum has been designed by giving more thrust to practical knowledge.

1. Each Engineering Graduate has the opportunity of studying 5 to 6 certificate/Diploma courses before they complete their Degree Programmes.
2. The Certificates are directly issued from the University (Bharathidasan University) which has approved the Skill Development Courses offered by SRR CET.
3. Skill Development courses help the students to get placement in the Leading companies.

1. The Context

- A decade ago, recruiting companies gave a feedback that students were technically good but need to be trained for soft skills.
- On interaction with recruiters, we came to understand that students need to be Practically exposed to recent technologies. Hence by collaborating with Institute of Entrepreneur and Career Development-Bharathidasan University, we have established a center viz Jairam Skill Development Centre to imbibe the skills to the Engineering Students.
- Students are given detailed introduction to the scope and opportunities available for their field of specialization and about the courses (32 Certificate/Diploma short term courses) offered through Jairam Skill Development Centre.
- During their third-year, students are provided with various opportunities to enhance their domain knowledge and also enhance their presentation and communication skills.

3. The Practice

1. Right from the Second year, the students of SRR CET have to select atleast One Certificate/Diploma programme for each semester. When they complete their Degree programme they will be completing 5 to 6 Certificates/Diploma Programmes.
2. Certificate/Diploma courses are properly conducted in the allotted periods. All the labs have been equipped with latest Equipment for conducting Skill Development Courses.
3. Experts are invited to provide training on the latest Technologies viz Artificial Intelligence, Cyber Security, Robotics etc.
4. More number of practical classes are conducted so that the students are properly trained and gain practical knowledge in the relevant area.
5. Industrial visits are also arranged.
6. Placement Programmes are organized for the Engineering Graduates, after completing the Skill Development courses.

4. Evidence of Success

1. Students develop a variety of skills; on top of it, a strong sense of self-confidence in handling tough situations and challenges gets boosted.

2. This leads to continuous improvement which leads to an increase in the success rate of placements (more than 80%). The success rate in placement has increased considerably year by year. Excellent

feedback reports have been received from the top recruiters.

5.Problem Encountered and resources required

- 1.Shortage of faculty members who have been trained well in the field of Artificial Intelligence, Cyber security etc.
- 2.More Number of Softwares were needed to conduct the advanced Skill Development courses.

Best Practice II:

- 1.Title of the Practice: **Eco-friendly Innovative practices and its impacts on Environmental system.**

Objectives:

- To conserve energy and increase the efficient use of Renewable resource.
- Conversion of waste to organic fertilizer and providing the pollution free Environment to the society.
- To eradicate carbon foot print.
- To increase natural outdoor cooling and minimize global warming impact.
- To provide water treatment using Hydroponics method.

The following Eco-friendly Practices have been carried out by the students in our campus to make the Environment Clean and Green.

- Clay Tube Cooling,
- Natural Air Cooler,
- Eco-friendly hut-solar powered,
- Bird's Nest,
- Vetiver Grass Technology
- Hydroponics Water Treatment,

Clay Tube Cooling

- Students of SRR CET has created Clay Tube Cooling. It is made up of terracotta, a low-cost and eco-friendly cooling solution that recycles materials, prevents further climate damages, and releases no carbon emissions.

Natural Air Cooler

SRR CET provides natural air cooler in our college library hall, class rooms for getting more natural indoor cooling there by avoiding Green House gases and carbon emission.

Eco-friendly Hut

- In our college, Eco-friendly Hut is built by using NASA certified air purification plants.

Bird's Nest

It is a provision made in our institute to attract birds using Nature Music to create Bio diversity.

Vetiver Grass Technology

Vetiver grass technology plant has been provided in front of the college for carbon sequestration.

Hydroponics

- Hydroponics is used for the removal of water contamination and remove heavy metals like arsenic.

2.The Context

- The context for an eco-friendly environment system is driven by the urgent need to mitigate climate change to make positive impact on college environment.

3. The Practice

- The clay tube cooling has been installed and maintained in our college premises the process created positive impact in Global warming.
- Our college has implemented and practiced with natural air cooler in our college library hall there by avoiding Green House gases and carbon emission.
- Our college has built an Eco-Hut there by our college students practice stress reliving program at any time.
- Our college has been equipped with Hydroponics practices for water treatment and purification.
- Our college has achieved the bio diversity in the college environment by applying birds Nest neuroscience method.
- To minimize environmental impact and promote sustainability It focuses on integrating environmentally friendly principles.

Evidence of Success

- 1.Students developed Natural Air cooler with the alternative to harmful Air-Conditioner.
- 2.Students developed Clay Tube Cooling method for outdoor cooling and mitigate global warming.
- 3.Students created the Hydroponics water treatment method for water purification in our college pond.
- 4.Students built the Eco-Hut in our college with Blue Mind Therapy (Neuroscience music).

Problem Encountered and resources required

The following were the minor problems.

- Shortage of resource to develop the clay pot eco-friendly materials.
- The clay pot products are difficult to purchase in market due to No demand supply chain.

File Description	Document
Best practices as hosted on the Institutional website	View Document
Any other relevant information	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:

Response:

To advance scholarly activity at SRR CET, Dr. A.P.J. Abdul Kalam Research Centre for Future Tech was founded to engage in collaborative research, training in research tools, disseminating research, or engaging in creative projects. Dr. A.P.J. Abdul Kalam Research Centre for Future Tech has various Centres which will provide opportunities for students for inquiry-based learning and will take an active part in important academic forums and community outreach. Centres often promote the multidisciplinary study and encompass activities that go beyond the scope of one subject. The establishment of a Centre with the purpose of obtaining funding for research projects is possible. The Centres are:

- Centre for Robotics
- Centre for Cyber Security and Cloud Computing
- Centre for Artificial Intelligence
- Centre for Electric Vehicle & Energy
- Centre for Image Processing
- Centre for IoT

Salient features of the Centres are:

- **Centre for Robotics** has conducted Hands-on Training programmes on Robotics, 3-D Printing, Drone Technology and Humanoid Robot to our students. Also an MOU has been signed with M/S Sree Koppudaiyal Technologies, Karaikudi to carry out R&D and Training on Robotics.
- **Centre for Cyber Security and Cloud Computing** has a tie-up with Varmaa Systems, Pudukottai. Training sessions on Software Development for detecting any Key Logger in a system has been given to our students and Faculty members.
- **Centre for Artificial Intelligence** has a tie-up with RiSiNh TechHons Pvt. Ltd. (RTPL), Begaluru and conducted Training sessions on Programming in AI. Through this training, our students and faculty members have developed Coding for Robotics Laboratory.
- **Centre for Electrical Vehicle and Energy** has a tie-up with Green Planet Environmental Solutions, Thiruchirappalli. Conducted various training programs on EV and Solar Energy to our students. The activities of this Centre helped to bring out an Electrical Vehicle by the students of Electrical and Electronics Engineering Department.
- **Centre for Image Processing** has a tie-up with Grid-Lab Solutions, Karaikudi Training on Fundamentals of Image Processing and Mathematical Tools for Image Processing and Practical

Hands-on sessions using MATLAB has been provided to our students through this Centre,

- Hardware projects are being carried out by the students under the guidance of faculty experts from the **Centre for IoT**. IoT based Fan, Light and AC has been developed by our students in our Robotics Lab with the help of M/S Sree Koppudaiyal Technologies, Karaikudi, who has signed MOU with our college.

The Centres can be used by researchers, and faculty members to apply for grants and get funds for R&D. Several events like FDP, Webinars and training programs were held in the Centres prevalently for the benefit of the faculty and students. Each Centre shall be evaluated and as a part of the assessment, the Centre will submit an activity plan and a report on the activities they have done. Through the Centres, faculty members and students can apply for government funding to patent their innovations and this Research Centre for Future Tech inspire students and academics to create patents. In the Centre, students worked on projects can be turned into journal articles. The Research projects taken by faculty members can be published in journals.

Dr. A.P.J. Abdul Kalam Research Centre for Future Tech has encouraged students and faculty members to complete the certification courses like Cyber Security, Artificial Intelligence, Robotics etc. Students have carried out the following projects under the guidance of Heads and faculty members of the Centres mentioned above.

- 1.E Bike
- 2.Solar Bike
- 3.Hybrid Bike
- 4.FM radio
- 5.Sensor Lights
- 6.Robotics Lab

The above projects are considered to be the vital outcome of this distinctiveness.

File Description	Document
Appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

Additional Information :

- Produced 15 Rank holders at ANNA university level.
- Produced Medalists at University, State, National and International Level.
- 32 Certificate and Diploma Courses are offered through Skill Development Center.
- Many Projects which are socially relevant have been carried out.
- Clean and Green initiatives have been carried out.
- Dr. A.P.J Abdul Kalam Research Centre has been established to carry out Research projects.
- Special Training is provided to students on CNC machine languages.
- ISO 9001: 2015 Certified Institution

Concluding Remarks :

Sri Raaja Raajan college of Engineering and Technology was established in the year 2010. The founder of the institution was Dr. S.Subbiah, Former Vice-chancellor, Alagappa University, Karaikudi. This institution was started with the vision of producing highly disciplined, talented students to serve humanity in unparalleled style.

Education plays an important role in the evolution of an individual's mind and country. Ignorance and poverty are major glitches in developing countries like India. It can be overcome easily through education. The college set its sights on thinning ignorance by imparting knowledge and fostering the spirit of research in the field of engineering. This institution provides quality technical education that lay emphasis not only on knowledge, technology, information and communication but also aspires to empower the youth morally and ethically to serve society selflessly.

SRRCET aims to get NAAC, NBA, ABET accreditations.

NAAC is the first step towards the accreditation process which can help us to continue our quality services in a more systematic manner and refine our Management System practices and broaden our opportunity.

“Live to Learn, Learn to Serve”