



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY

SF NO 162, ATHIPALAYAM, THUDIYALUR TO KOVILPALAYAM ROAD,
COIMBATORE, TAMILNADU

641110

www.sriet.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Sri Ranganathar Trust was established for the upliftment of the youths through Education, as the development of any nation depends upon the young generation. **Dr. V. Narayanasamy**, Managing Director of Sri Ranganathar Group, famed as **The Best Methods Man** founded Sri Ranganathar Institute of Engineering and Technology (SRIET) in 2011 after identifying the need of talented young engineers in Industries. The past four decades of his expertise in Industry turned into the foundation of SRIET. The primary objective is to bridge the gap between the Institute and Industry through adequate Industrial exposure, harmonious teaching and experiential learning.

SRIET is an Innovative Educational Institution where the curiosity, creativity and intellectual joy of students all drive to academic excellence. Our Institution provides complex problem-solving skill and imbibes service to the public good. SRIET is defined by strong association and working in ways that excel in traditional boundaries.

SRIET's academic excellence is rooted in a student-centred model of learning. The Curriculum is an accurate approach to education that pushes the students to be creative thinkers, intellectual risk-takers and entrepreneurial problem-solvers. SRIET leaves students prepared to thrive as independent and innovative leaders and equipped with the tools they need to become the next generation of leaders in their respective fields

Vision

To be a unique Institution that enables students to become contributing Humans towards technology, business and sustainability of natural world.

Mission

Our mission is to facilitate students with harmonious teaching and experiential learning by integrating industrial and societal needs with curriculum, providing requisite infrastructure facilities and imbibing ethical values.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Management:

SRIET is managed by SRI Trust. Trustees are the promoters of Sri Ranganathar Group of Industries, classified as large scale industries and having 40+ years of rich experience in supplying machined castings/valves to leading companies worldwide.

As a philanthropic activity, SRI Trust runs SRIET as an Industry integrated Institute offering quality

engineering education to uplift students to pursue their career as entrepreneurs, technocrats or research scholars. The vision of institute clearly underlines the purpose of its existence. Being an Industry Integrated Institute, SRIET provides hands-on experiential learning to students at SRI. They get exposure and knowledge on industrial practices to become Industry ready.

Faculty:

SRIET attracted many highly qualified and experienced faculty members across southern region. This helps students to learn and understand larger society, its needs, culture and socio-economical levels making them highly successful competitors. SRIET, also, has a healthy mix of experienced versus fresh faculty members where the former brought in proven techniques, the latter adds value with their exposure to current and modern technological advancements and practices. SRIET has many faculty with doctoral degrees and of different area of specialisation. This helps students to learn various horizons of technology.

Infrastructure:

Excellent Infrastructure both in terms of built-up area and IT providing conducive environment to practice best pedagogical methods such as RBT, OBLF, STEM, Concept Map and Cooperative Learning.

- Well-equipped labs having state of art facilities enables practical exposure to students.
- Fully automated Central library with over 16,000 volumes and abundant E-resources and Learning Management System with anywhere-access including through mobile.
- Use of ICT tools by all faculty members in smart class rooms for better learning.
- Digitalized through Campstack ERP
- CCTV monitored campus for security.
- The Institution has upgraded ISO 9001:2015 certification.

Students:

- Scholarships and educational concessions for economically backward students.
- Career Counselling to students and training for competitive examinations.
- Institution has Medical, Sports, Gym and Yoga facilities to improve physical and mental health of the students. Separate hostels for both boys and girls.

Training and Placement:

- Exclusive Training & Placement Cell for better placements.
- Conducting mock interviews for final year students to infuse confidence.

Institutional Weakness

- Affiliated to State University for the past 10 years minimises the scope for introduction of latest trends in technology and provision of more time for industrial training.
- Defined curriculum limits the scope for bridging the gap between Institute and Industry for improving the employability.
- University examination questions are mostly repetitive hence the students are tend to read selectively.

- As most of the students are first generation learners, their communication skills requires improvement.
- Limited utilisation of incubators leads to lower numbers of students becoming entrepreneurs.
- Being an affiliated Institution, restricted autonomy controls the introduction of new programmes for better employability.
- Interdisciplinary and collaborative research still need to be strengthened.
- Since there are no PG programs in Engineering and Technology it is quite difficult to concentrate more on research activities.
- Students requires more training on linguistic skills to better express themselves in communicating inside and outside the classroom

Institutional Opportunity

- To become an autonomous institute under Anna University, Chennai and UGC, New Delhi enabling design of curriculum as per industry requirements.
- To encourage more faculty to acquire Ph.D qualification.
- Organizing/participating in more workshops/seminars/Conferences, etc. by the faculty members
- Increasing the participation of students in various National level programs like SIH, KPIT Sparkle, etc.
- Securing patent for innovative ideas and products emerging out of R & D projects.
- Identifying projects of high potential that would result in new products/patent.
- Transform pedagogical practices and adopt latest technological relevant courses in curriculum.
- Being an Industry Integrated Institute, our faculty members and students are getting skill development training opportunities especially in the areas of CNC Programming, CNC Maintenance, Furnace Maintenance, Automation, etc.,
- Helping our students to get financial supports from various industries to convert their conceptual ideas into real time projects.
- Enlarging the activities of Entrepreneurship Development Cell, Institutions Innovation Council, Industry Institution Collaboration Cell, Women Empowerment Cell, Career Development Cell, etc.
- Better equipping 'EDC' to develop entrepreneurship spirit among the students.
- SRIET provides opportunity to do in-plant trainings, Internships, Industrial Visits for the students through industry collaborative activities.
- Encouraging various cells in the Institution to motivate more students' participation in Smart India Hackthon (SIH), KPIT Sparkle, AICTE VISWAKARMA CHHATRA and other national level competitions.
- To provide bridge course trainings and skill development programs to improve employability or self-reliance.
- Using alumni of the institution in widening collaboration and network building with other Institutions, Universities and Industries of national and international repute.
- Counseling and training the students to appear for competitive examinations like UPSC, GATE, CAT, GMAT, TOEFL, GRE, TNPSC, TANCET, etc.
- Benchmarking with premier institutes will bring out the best in students and faculty.

Institutional Challenge

- Long term sustainability without compromising standards due to growth of institution and competitions from nearby Colleges and Universities.
- Admitting quality students with keen interest in engineering.

- Continuously decreasing trend in engineering admissions.
- Incorporating additional add-on courses out of curriculum modules to comply an industry requirement because of defined curriculum and timing.
- Attracting and retaining qualified faculty.
- Generating funds through Patents and Consultancy activities.
- To figure in the NIRF ranking and NBA accreditation for all UG programs.
- Being affiliated institution, developing research facility, Introducing PG programmes, Introducing new programmes.
- No clear distinction between professional courses and Arts & Science courses in CSE & IT departments.
- Students interest shift to Software from Core branches.
- Software demand depends on IT recession and boom.
- Market is subject to change, very dynamic.
- Socio-economic conditions of students control their participation in inter college meets, attending technical symposiums, doing high-cost projects and GRE coaching.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The SRIET follows the curriculum given by Anna University. A meticulous action plan is prepared by the institution for the effective implementation of the curriculum. An academic calendar is prepared as per the university norms and the requirements at the department level. Faculty members prepare detailed Course plans, Lecture notes, power point slides, previous year question papers and question banks well before the onset of the semester.

In Teaching-Learning Process, Student centred delivery modes using Information and Communication Tools (ICT) are used, and lecture notes, question banks are given to the students. The faculty prepares Course plan for all the programs and the course file which contains syllabus, lesson plan, time table, course objectives, course outcomes, CO-PO mapping, course materials, assignment and course completion status.

An Effective course delivery is done by the faculty through a well-planned and documented process. The Institution ensures Student-Centric Teaching-Learning Process through Revised Blooms' Taxonomy (RBT). Tutorials, Guest lectures, NPTEL recordings, Conferences, Workshops and Industrial visits are all parts of the day-to-day teaching phase. The two-dimensional Revised Bloom's Taxonomy is being used to enhance student-centric learning.

Curriculum enrichment is achieved through the Content Beyond Syllabus and Add-on Courses. The institution integrates crosscutting issues relevant to professional ethics, gender, human values, environment and sustainability into the curriculum. A number of add-on or certificate programs are offered and experiential learning is promoted through project works, field works and internships.

Internal exams are conducted as per the given schedule and are designed to assess the attainments of the course outcomes. The institution has a well-designed feedback system on the curriculum delivery from the students, teachers, employees and the alumni. To help the students get more exposure on a wider spectrum and acquire knowledge, guest lectures by experts on various engineering disciplines, workshops, national and international conferences and seminars are organized frequently.

Teaching-learning and Evaluation

The institution has well-planned multi-level strategies that are implemented from time to time to address the issues of diversity in students' learning levels. Our institution uses an innovative, robust teaching-learning approach to provide high-quality education and a positive learning experience for students, preparing them to analyse real-time applications and meet industry demands.

Effective content delivery by using ICT tools in the class room for better understanding and reinforcement of the concepts and problem-solving is adopted by all the faculty of the institution. Traditional teaching-learning methods are made more effective through the usage of ICT resources, and the institute is keen to provide novel approaches for enhancing the learning experience.

The institute develops its own academic calendar well in advance of the semester's start date. As per the Anna University norms, three Internal Assessment Exams (CIA) are being conducted for which the Time Table will be prepared and displayed in the notice board well in advance.

The answer scripts are evaluated within one week of the internal exam's completion, using the answer key prepared by the course teacher. Students are free to interact with the teacher to resolve grievances if any, regarding the assessment. Any malpractice during university examination is reported to the Examination Cell.

Research, Innovations and Extension

Sri Ranganathar Institute of Engineering and Technology (SRIET) is greatly proactive in instituting various platforms for research, innovation and extension activities. Research culture is promoted with the help of Research & Development Cell and Entrepreneurship Development Cell. Our faculty members, along with the students, carried out several research projects with various funding agencies like Tamil Nadu State Council for Science and Technology (TNSCST).

Special Interest Group (SIG) is formed in the institution under the faculty members. The students are encouraged to join SIG based on their interest and always motivated to do the interdisciplinary projects. SRIET constantly encourages the faculty members to conduct Faculty Development Programs(FDP), National Conferences Technical Workshops, Seminars, Webinars for creation and transfer of knowledge amongst the students as well as faculty members.

The Institution has more than 10 highly qualified Doctorates and about 15 are pursuing Ph.D. in different areas. The institution encourages the faculty members to publish papers in Conferences/Journals in both national and international level. Institute motivates them in authorizing books, publications for updating their technical familiarity. Our institution has good number of publication in Scopus/UGC indexed journals. Also, the institute identifies projects with scope for commercialization and efforts are taken to convert them into patents. Our faculty members successfully converted two projects into patents.

The institution has established a good network with neighboring community through National Service Scheme (NSS), Youth Red Cross (YRC), Red Ribbon Club (RRC), Unnat Bharat Abhiyan (UBA) and extracurricular activities. The Volunteers of NSS, YRC, RRC and UBA cell continuously conducted various extension and outreach activities like Tree Plantation, Cleaning and Drip Irrigation, Blood Donation Camp, Medical camp, Eye Checkup Camp and Swachh Bharath campaign. We conducted awareness Program on Road Safety,

Banning of Plastic and Digital India Campaign to the society.

The Institution marks systematic efforts to initiate collaboration and MoU's with various industries and agencies. In collaboration with Nandha InfoTech, our students created a Guinness world record by developing more than 1000 websites about 500 students taking part in 2 hours in-house. This world record is certified by Universal Achievers Book of Records.

Infrastructure and Learning Resources

The institution has its inception in the year 2011, with the norms prescribed by the regulating bodies with abundant infrastructure facilities. All the class rooms and three seminar halls are equipped with ICT tools including LCD projectors with internet connectivity and PA system which ensure the conducive environment for teaching and learning process. An auditorium with more than 400 seating capacity is also available in the campus.

Moreover, the institute has an exclusive language laboratory. Each department is provided with separate cabins for the faculty members. The 53 laboratories are established with more spacious of total built-up area 4720 sq.m. for all five branches with latest state-of-the-art lab equipment and machineries; tools and central workshop for the specific curriculum requirements and the sophisticated equipment for research purpose is also available. Safety instructions boards, first aid, fire extinguishers and all other safety measures are provided in the laboratories.

An in-house ERP (CAMPS) fulfills process including Staff & Student Management, Curriculum Management, Academic Process Management, Examination Management, Library Management, Documentation Management and Analytics. Library has rich collections of books and journals which fulfills the academic needs of the students as well as faculty members. It has more than 15,000 Volumes of books and having membership with DELNET and entire operation is automated with Autolib Software. Digital library, which has the facility of e-resources such as e-Journals, e-Books, NPTEL and Learning Management System, is a boon to the researchers and advanced learners. The Institute has 90 Mbps high speed internet connectivity with campus wide network connecting 400 computers with Wi-Fi facility in the campus. Also, Institution has sufficient facilities for indoor and outdoor games, yoga center, modern gym, etc. Video Conferencing facility, CCTV cameras for security purpose are available in the campus. Moreover, filtered water facility, lift facility, ATM facility and two generators of 62.5 kVA and 15.5 kVA and four numbers of 20 kVA UPS are available for ensuring uninterrupted power supply. The campus is having a policy for maintaining and utilizing physical, academic and support facilities and sufficient funds are allocated to maintain the campus.

Student Support and Progression

SRIET is a student-centric institution. The primary objective and focus is students' progression and support. Mentoring of the students start from time of admission upto the completion of their program at various levels. Institute also provides detailed lesson plan for all subjects based on RBT which support the students to understand the subjects deeply. As hostel is a home away from home, SRIET provides a fantastic hostel facility for both boys and girls and offers hygienic and delicious food.

The institute provides scholarship facilities for eligible students. Apart from Government scholarships, the Management of SRIET offers merit based scholarships, girl student scholarship, scholarship based on financial

background, single parent scholarship, sports student scholarship and staff members' ward scholarship.

Students can make use of various management's scholarships and get benefited out of it. College offers lots of opportunities to the students for capacity building and skill enhancement by conducting various programs in the domain of Soft skills, Language skills, Life skills and ICT computing tools, etc.

Also, for the upliftment of the students, our Institute offers various activities and awareness programs throughout the year to prepare them for the competitive exams and arranges sessions for career counseling.

For the smooth functioning of the institute, SRIET follows a very transparent mechanism for timely redressal of students' grievances not limited to sexual harassment and ragging. As placement is the main objective of students, SRIET facilitates process of placement by motivating students to develop technical knowledge and soft skills in terms of career planning, goal setting, etc. For overall development of students, SRIET gives equal weightage and importance to curricular, co-curricular and extra-curricular activities. SRIET facilitates students representation and active participation in various committees like Library committee, Sports committee, Students council and Anti-ragging committee, etc.

Women empowerment cell functions effectively to empower girl students; to enhance their understanding of issues related to women; to address girl students' related grievances and to make the college campus a safe place for them.

Governance, Leadership and Management

The Vision and Mission of Sri Ranganathar Institute of Engineering & Technology focus on making Industry-ready Engineers and contributing Humans. The Governing Council of the institution is the major council that takes care of the managerial issues and other external affairs. Academic council deals with the improvement of academic processes and other internal affairs. Other various decision making committees, which are functioning in the institution like Internal Complaints Committee, Grievance Redressal Committee, Anti-Ragging Committee and Disciplinary Committee, enable the proper functioning of the institutional bodies.

The institution has strategic plans for academic, research and institution development by signing MoU with the industry, developing business incubation centers, CO-PO attainment and digitalisation. The institute has a good organizational chart headed by the Chairman. The HR Policy describes the duties and responsibilities of the Institute's employees.

The institution follows effective welfare measures by providing various financial assistance for the teaching and non-teaching faculty for attending faculty development programs, conferences, etc. The institution has a good form of appraisal for all teaching, non-teaching and the administrative staff for measuring the quantum of works contributed for the growth of institute. The institute also provides programs for the faculty which improve professional development.

The internal and external audit for finance is conducted twice in a year for ensuring proper cash flow and mobilization of funds were monitored through the reports generated.

The Internal Quality Assurance Cell (IQAC) runs successfully which governs the quality of the academic processes followed. The cell comprises of the proper documentation of all academic related activities. It actually monitors the improvement of active teaching-learning process. The various quality assurance initiatives

such as collaborative activities of other institution, ISO Certification, etc., were clearly illustrated.

Institutional Values and Best Practices

SRIET aspires to develop students into socially responsible, capable engineers who are instilled with moral and ethical ideals. Women's Empowerment cell is dedicated to promoting gender equity through educational activities and ensuring that women are safe and protected on campus.

SRIET is concerned of its obligations to adopt methods that will help to conserve and save the environment in the future. Some of the environmental-friendly steps done by the Institution include sewage treatment plants, biogas plants, waste management, rainwater harvesting, LED lighting, plastic-free and pedestrian-friendly campus.

SRIET places a strong focus on waste management includes recycling of water and proper disposal of solid and e-wastes. Green, Environmental and Energy audits are performed with recommendations taken into account and implemented.

With wheelchair, ramps, lifts, bathrooms and test scribes, the institution has made it easier for differently-abled students to get around the campus.

Cleaning villages, raising awareness on health, voting, arranging health check-ups (eye, diabetes,) blood donation camp, planting seedlings and other socio-economic activities are all conducted out on regular intervals under different cells.

For students, professors, and administration, including the Principal and support personnel, the college has developed a Code of Conduct manual. During Governing Council meetings, best practises are explored and introduced to suit the needs of students and faculty.

Students participate in a variety of communal and cultural festivals like Pongal, Christmas, Onam, Ramzan and others, in order to better understand and appreciate their own and others' traditions, cultures and to foster tolerance and harmony. By celebrating national festivals and anniversaries of renowned people with active participation from students, professors and staff, the Institution hopes to promote human values, national integration and communal harmony.

Best practices are initiated in the campus to achieve its objectives and aspirations. The Institutional distinctiveness is to bridge the gap between curriculum and industries. SRIET is an Industry Integrated Institute to offer quality Engineering Education to cater to the need of Industry. It aims at equipping our students with latest knowledge & practical training on technology much essential in operations of various industrial equipment and processes.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SRI RANGANATHAR INSTITUTE OF ENGINEERING AND TECHNOLOGY
Address	SF NO 162, Athipalayam, Thudiyalur to Kovilpalayam Road, Coimbatore, Tamilnadu
City	Coimbatore
State	Tamil Nadu
Pin	641110
Website	www.sriet.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	K. P. Arulshri	0422-2697792	7502664999	0422-2697782	principal@sriet.ac.in
IQAC / CIQA coordinator	J. Maalmarugan	0422-2982999	8489929865	0422-2983099	maalmarugan@sriet.ac.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	01-01-2011

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

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	30-04-2020	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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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	SF NO 162, Athipalayam, Thudiyalur to Kovilpalayam Road, Coimbatore, Tamilnadu	Rural	10.05	20023.44

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,Civil Engineering	48	Intermediate or Equivalent	English	60	27
UG	BE,Computer Science Engineering	48	Intermediate or Equivalent	English	60	59
UG	BE,Electrical And Electronics Engineering	48	Intermediate or Equivalent	English	60	25
UG	BE,Electronics And Communication Engineering	48	Intermediate or Equivalent	English	60	28
UG	BE,Mechanical Engineering	48	Intermediate or Equivalent	English	60	34

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	10				9				44			
Recruited	6	4	0	10	5	4	0	9	28	16	0	44
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	22	8	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				10
Recruited	8	2	0	10
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	0	0	0	0	0	0	0	0	0	0
Ph.D.	4	2	0	2	1	0	0	0	0	9
M.Phil.	0	0	0	0	0	0	5	3	0	8
PG	0	0	0	9	4	0	24	12	0	49

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD	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

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	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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	471	9	0	0	480
	Female	233	0	0	0	233
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	37	29	33	36
	Female	15	24	18	17
	Others	0	0	0	0
ST	Male	1	2	2	3
	Female	2	1	1	0
	Others	0	0	0	0
OBC	Male	43	43	56	39
	Female	25	18	34	19
	Others	0	0	0	0
General	Male	21	67	64	41
	Female	9	26	29	6
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		153	210	237	161

Extended Profile

1 Program

1.1

Number of courses offered by the Institution across all programs during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
181	180	174	149	128
File Description		Document		
Institutional data in prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2019-20	2018-19	2017-18	2016-17	2015-16
5	5	5	5	5

2 Students

2.1

Number of students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
692	828	783	630	572
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

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

2019-20	2018-19	2017-18	2016-17	2015-16
207	207	207	207	207

File Description	Document
Institutional data in prescribed format	View Document

2.3

Number of outgoing / final year students year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
160	239	144	91	111

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

Number of full time teachers year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
66	62	81	75	65

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
66	62	81	75	65

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 23

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
139.77	192.94	90.47	177.94	217.99

4.3

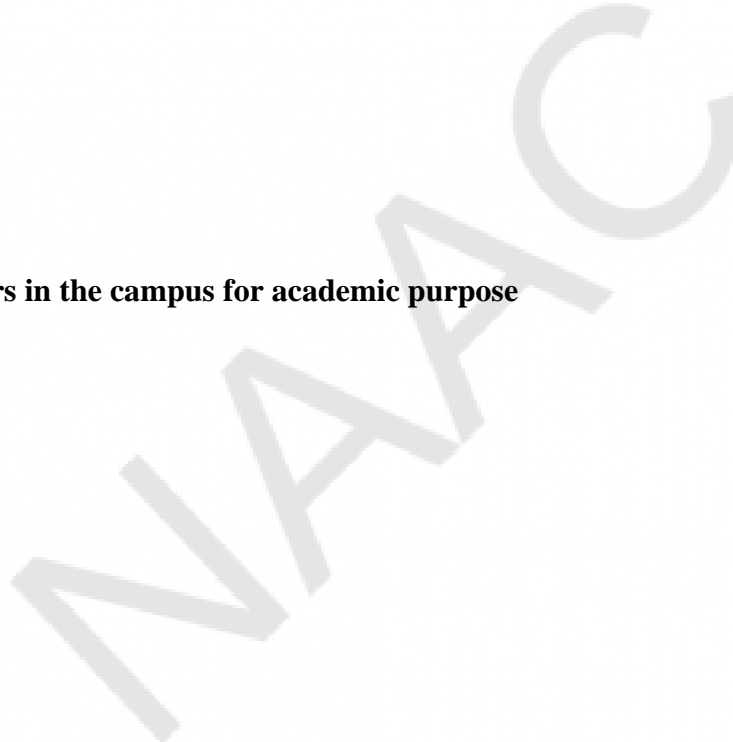
Number of Computers

Response: 400

4.4

Total number of computers in the campus for academic purpose

Response: 360



4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Response:

The Institute ensures effective curriculum delivery through:

1. Curriculum Planning
2. Teaching-Learning Process
3. Effective Course delivery
4. Monitoring Course delivery

1. Curriculum Planning

SRIET is affiliated to Anna University to offer undergraduate programmes in Engineering and Technology. From 2017, University implemented Choice Based Credit System in curriculum and it circulates academic calendar for each semester.

Department Advisory Committee:

Department Advisory Committee (DAC) discusses the curriculum gaps and proposes ways to address it through Add-on courses. Internal Quality Assurance Cell (IQAC) discusses and approves it for further implementation.

Design of Course Plan:

Each faculty member designs comprehensive course plan for theory and laboratory based on credit specified in the course to deliver the subject content in 1.5:1.5:2 units for CIA I, II & III respectively. Course plan includes, text book(s), reference book(s), web resource(s), ICT tool(s) and content beyond syllabus.

Preparation of Course file:

Faculty member prepares course file containing academic schedule, timetable, course plan & materials and previous year question papers. Course Outcomes(COs) are validated by mapping against Programme Outcomes(POs) after each CIA. For slow learners, corrective actions such as counselling, supplementary classes and retests are done to achieve COs.

2. Teaching-Learning Process

The Course plan is prepared by individual faculty under the guidance of HoD. Based on COs, the portion of syllabus coverage is allotted for CIA. The Institution ensures Student-Centric Teaching-Learning

Process through Revised Blooms' Taxonomy (RBT). Tutorials, Guest lectures, NPTEL recordings, Conferences, Workshops and Industrial visits are all parts of the day-to-day teaching phase. Faculty members use Google Classroom to share their lesson plans, question banks and other resources. The curriculum delivery is even more enhanced with ICT enabled classrooms and laboratories.

3. Effective course delivery

SRIET adopted one dimensional Bloom's Taxonomy based on six levels of Cognitive Learning Dimensions (CLD) - Remember, Understand, Apply, Analyze, Evaluate and Create to deliver course content. High and Low order thinking are distinguished perspicaciously. Various instructional approaches and pedagogical programs such as seminars, tutorials, laboratory classes, project work, continuous internal assessments for theory subjects are used to enhance and ensure the effectiveness of course delivery.

Recently, two dimensional Revised Bloom's Taxonomy is being used to enhance student-centric learning. In addition to CLD, a four type of Knowledge Dimensions namely Factual, Conceptual, Procedural and Metacognitive are added to improve the effectiveness. The general objective is further classified into four specific objectives using STEM (Science, Technology, Engineering and Mathematics) concept which are mapped in the above 2-dimensional matrix of 6x4. Stimulating questions, mind map technique, quiz and objective type questions in OBLF (Object Based Learning Format) are used to promote exquisite learning and individual learning in the class room teaching.

4. Monitoring the course delivery

HODs and Principal regularly monitor the delivery of the course. Formal feedbacks are received from the students to assess the course delivery and syllabus completion. The Class Committee meetings are arranged where the student representatives can express their difficulties in academic and administrative areas.

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

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

Academic Calendar for the Institution is prepared based on the University guidelines by the Academic Council. It is authorized by the Principal and distributed to all the Departments and students, as well as being posted on the Institution's website for information and compliance.

The following activities are scheduled chronologically in the academic calendar, semester-wise for seniors & first years.

1. Commencement date for II, III & IV years

2. Commencement date for I year
3. Orientation programme for I year
4. Class Committee meeting
5. CIA-I, CIA-II and CIA-III
6. Symposium
7. Workshop/Conference
8. Graduation day
9. Sports day
10. Annual day
11. Model Practical examination
12. Last working day
13. University practical examination
14. University theory examination
15. Government Holidays

Continuous Internal Evaluation:

Internal marks are awarded to the students based on the marks scored in three Internal tests, as guided by the Anna University. Exam cell conducts the internal tests on the specified dates given in the academic calendar. The pattern of the question paper for CIA test is approved in the HoDs meeting and the same is communicated to all faculty in department meeting. Then, the faculty intimates the students in the classroom as well as the timetable is displayed in the notice board.

On each subject, faculty prepares two sets of question papers and submits to Department IQAC coordinator and HOD for approval. Exam cell receives question papers a day before the commencement of the test. COE randomly chooses and issues one question paper of each subject for exam. After examination, answer scripts of each CIA is evaluated and distributed within a week for verification of marks. The outcome of CIA along with question and probable answer are discussed in the class to educate and clarify the students. The results of the internal tests are uploaded in the affiliating university web portal as per University schedule. Anna University web portal provides students login to access their attendance and internal assessment marks.

Working period:

According to University rules & regulations, the academic calendar shows semester-by-semester working periods, which include working days, teaching days, review and valuation periods. Each semester has 90 working days or 540 periods (450 hrs) and SRIET strictly adheres to it.

Academic events:

The department organizes association meetings, workshops, guest lectures, conferences and symposiums to enhance organizing skills, team work and leadership quality of the students. Library hour is allotted in the timetable for students to equip themselves for preparing seminars, projects, etc.

Co-curriculum activities:

The academic calendar lists various events to improve their employability skills such as soft skills, communication skills, programming skills, industrial visits, industrial training, internship and placement training programs including counselling.

Extra-curricular activities:

The academic calendar allots a specific amount of time for extracurricular, sports, cultural events and societal developmental activities. Important days like Independence Day, Republic Day, Engineers Day, Teachers Day, Women's day and other festivals are celebrated in the campus and accommodated in the calendar.

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

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: C. Any 2 of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document
Any additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 100

1.2.1.1 Number of Programmes in which CBCS/ Elective course system implemented.

Response: 5

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 58

1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2019-20	2018-19	2017-18	2016-17	2015-16
14	14	12	10	8

File Description	Document
Institutional data in prescribed format	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Any additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 36.65

1.2.3.1 Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
331	300	255	227	175

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

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

Response:

SRIET adopts Anna University curriculum and inculcates the crosscutting issues in it. Students are made aware of Professional Ethics in Engineering, Environmental Science and Engineering, Principles of Management and Total Quality Management. Practical courses on Soft skills, Environmental Sustainability and Renewable Energy are provided. Students are sensitized on Gender Equity.

- **Professional Ethics and Human Values:**

In accordance with University curriculum, SRIET offers ‘**Professional Ethics and Human Values**’ to prepare students for practicing ethics and inculcate value system in handling their personal and professional domains of life. Practising mutual respect, tolerance and fairness in dealing with others are encouraged to sustain and grow in modern environment & society.

SRIET gives importance on strengthening inner ability of students through soft skills training. Various club activities like Innovation club, IPR and Product Development Centre enable the students to exhibit their innovation ideas as Project models. Importance of group work and imbibing leadership are also being taught.

Yoga classes enable our students to improve their physical fitness and self-confidence in achieving inner peace and mindfulness.

- **Gender Equity:**

Gender equity is practiced in Institution in all its activities including recruitment of staff, students’ admission, allotting them in laboratory batches, project team, cultural activities, sports, association activities, etc. Students are encouraged to co-work with other gender in all the above activities thus removes any barrier between them and create friendly existence.

In addition, office bearers of associations, class representatives and club coordinators’ positions are shared equally among boys and girls. Women Empowerment Cell consisting senior female members of SRIET conducts various awareness programs and ensures grievances of girl students are addressed in time.

Gender equity is encouraged in Innovation Cell and Entrepreneurship Development Cell also. A rebounding start-up by one of our girl students stands as a tall example for it.

- **Environment and Sustainability:**

Environment study is a part of the curriculum and SRIET enlarges the knowledge of students on sustaining, improving and preserving the environment through various practices and programs to maintain natural world. Through extension activities like NSS/CSR/YRC, Tree plantation, Rain water harvesting, toilet construction and maintaining cleanliness & hygiene are done in nearby areas and schools.

Posters, talks, seminars and rallies are used to promote awareness among public to protect our environment and maintain ecological balance. Clean India-Swachh Bharat Campaign enables our students to have a chance to interact with local people and understand their socio-economic background to device ways to maintain cleanliness in neighborhood. Through **Unnat Bharath Abhiyan scheme**, students have adopted five nearby remote villages and conducted household survey. Students educated villagers on adopting new technologies, plastic-free environment and pandemic management.

Rain water harvesting project is done in campus to recharge bore wells using twin-ring method.

Many environmental related projects on climate change, water/air pollution, sewage treatment, green concrete, energy conservation and management are undertaken by our students-

- Battery operated vehicle
- Smart water quality and distributing system
- Protective waste management
- Solar powered smart agriculture system
- Self-navigated dustbin dispensing system
- Solar water distillation system
- Emission control in two stroke petrol engine

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document
Any additional information	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 39.92

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
75	88	71	45	49

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

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

Response: 67.63

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

Response: 468

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni

Response: A. All of the above

File Description	Document
Any additional information (Upload)	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document



Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 67.07

2.1.1.1 Number of students admitted year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
153	210	237	161	245

2.1.1.2 Number of sanctioned seats year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
300	300	300	300	300

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 63

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
124	113	137	108	170

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

Efforts to identify the students learning levels:

- The Student's profile are analyzed and based **on their cut-off marks** scored by the student gives an idea of learning level of the student. Students are made aware of the subjects and their pre-requisites by the faculty members.
- The initial informal interaction during **Induction Programme** just after the entry into the institute, coupled with continuous evaluation helps the teachers to assess the learning level of the students and identify and differentiate the slow learners and advanced learners in the classroom.
- The performance of the student in the class test and first **Continuous Assessment (CA1)** enables the faculty members to identify the Advanced Learners and the Slow Learners.
- During the department activities the advanced learners and slow learners are identified based on their **overall performance of previous semesters, orientation towards academics and feedback from subject teachers.**
- Activities involvement in conducting programs such as **conference, technical symposium, paper presentation, project model.**
- Mentees' **learning ability is identified by the Mentors** based on their academic performance, behavior, social and psychological aspects during the individual interaction session.
- **Class committee meetings** are conducted three times per semester as per Anna university regulations and feedbacks are collected from subject handling faculties.

Program for slow learners:

- **Each mentor is assigned with 20** students per year to provide one to one counseling for overall improvement.
- The respective department, science and humanities department arranges the **preliminary spoken English and communication classes** for the benefit of students based on their social and economic categories as for those whose **proficiency in English is low.**
- The different departments of conduct **remedial classes** are provided with course notes for students who are slow learners.
- Personality Development programs are conducted for students who have good technical skills but are unable to express their knowledge.
- **Retest schedule** have been prepared in the department and special coaching is given to identified slow learners and make them to write the retest.
- Remedial classes are followed by the identified students from CIA exam.
- Handwritten notes are being posted to the students in **Google classroom.**

Program for Advanced learners:

- Best Outgoing and Best Achiever Awards for final year students will be awarded as best outgoing student during annual day.
- Advanced learners are encouraged to attend workshops, symposium, seminars, publish papers and competitions to gain knowledge of the latest developments of technology.
- Students are encouraged to inculcate research orientation by involving them in **innovative projects** and research work which is time to time presented in different exhibitions of academics and industry.
- Students are encouraged to enroll themselves and get certified in **MOOCs courses and NPTEL value added courses**.
- Students are encouraged to participate in **competitive examinations**.
- Onduties are permitted for the student to take up **special value added courses training on industries**.

Special Interest Group (SIG) has been formed for advanced learners hence they can identify development and innovation in the industrial projects

File Description	Document
Upload any additional information	View Document
Paste link for additional Information	View Document

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 10.48

File Description	Document
Any additional information	View Document

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

Response:

The teaching learning process in SRIET is based on student-centric learning by empowering the students to think critically, respond with confidence and pose questions without reservations. Our Institution adopts 2017 regulation based students centric – OBE and CBCS methods. Effective teaching learning process is achieved through regular course delivery to attain and improve COs, POs & PSOs are used for different level of students. Currently, OBLF methodology is being used to enhance the effectiveness of course delivery by identifying pre-requisite knowledge, STEM concepts, mind mapping, stimulating questions, etc. Cooperative learning using concept map, interactive learning, miniprojects, seminars, assignments, quiz, PPTs, video lectures, etc., entices students to learn and enlarges his learning capabilities.

Experiential Learning:

1. ICT tools are used to enhance experiential learning among students.
2. Experiments are carried out in laboratory to meet syllabus requirement and beyond.
3. Miniprojects in pre-final year and final year project work help students to apply the knowledge gained.
4. Workshops to impart hands-on training in relevant fields are conducted by faculty and experts from industries.
5. Industrial visits/Internships are part of Industry-Institute Interaction to understand the manufacturing process and shop floor practices.
6. Students as a part of inter-disciplinary - Special Interest Group(SIG) carry out projects in Industry to enrich their knowledge.

Individual Learning:

- Independent learning is achieved through assignments and class seminars.
- Students are encouraged to gain knowledge by reading library books and e-contents.
- By mentoring, students join in SWAYAM-NPTEL initiatives and get certified.
- Lesson plan, Notes of lesson and lab manuals are posted in Google class room for easy accessibility to students.
- Students are also attending webinar, seminar and short time training program(STTP)

Problem Solving Methodologies:

- Smart India Hackathon, promoted by MHRD, helps our students to learn problem solving methodologies.
- HR team from NIPM shared their experience and provided guidance to students
- TamilNadu State Council for Science & Technology(TNSCST) funds our student projects that solve the problems of social relevance.
- Industry sponsored projects throw challenges to our students in solving the problems identified by industry and institution.
- Our students learn theory and practice it in lab before applying it in industry to solve specific problems.
- Case study methodology is used to enable students to learn problem-solving techniques.

Participative Learning:

- Students are encouraged to participate in add-on courses which are conducted by the departments.
- IIC is functioning in our campus through which many programs are organized and guest lectures are arranged to enhance individual skill development
- Students participate in conferences, symposiums, seminars, quiz and various inter & intra college events
- Interactive learning is encouraged in regular classes through class seminars and quiz.
- Students, while exhibiting and explaining their projects to others, get a chance to interact in the peer group.
- Club activities such as Tamil mandram, Communication club, YRC, Women's club, UBA and NSS provide more opportunities for participative learning.

- Group discussion and mock interviews by Career Development Cell(CDC) paves way for mutual interaction.
- Sports and games activities prepare the mindsets of students on participation and sportsmanship.

File Description	Document
Upload any additional information	View Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

Empowering classrooms with Information & Communication Technology (ICT) tools supports, enhances and optimizes the delivery of information for “Effective Teaching and Learning”. Faculty use ICT tools to enrich the teaching process through PPT, Video Clippings and other online resources that provide advanced knowledge and practical experience to the students. Each classroom is equipped with LCD Projectors, Audio System and LAN/WIFI connection. Being high speed Internet is the enabler for effective utilization of ICT, SRIET is having a 100Mbps 1:1 bandwidth which helps students to access relevant content over internet without any time lag.

- As a part of teaching learning process, prior to the commencement of each semester, staff prepares the course plan and identifies the following delivery methodology based on IQAC formats. Chalk & Talk is used to teach analytical subjects and drawings. Theoretical subjects are taught using Power point presentations and simulation and working models are presented through Videos with the aid of ICT tools for better visual impact on the students’ learning.
- Most of the faculty use ICT tools to enhance interaction in classroom through research paper presentations, seminars, debates, group discussions, assignments, quiz/tests/viva and laboratory work.
- **Departments and Conference rooms** are provided Computers with Internet connectivity, LCD Projector and Speakers.
- **Digital Library-** In addition to central library, digital library has been established.
- The **Media Studio** in the campus is well equipped with Digital Camera, and Microphone to produce educational videos and presentations
- As a part of Learning Management system (LMS), faculty create YouTube channel which have built-in tools to interact with students and also extend the information conveyed by eLearning courses.
- Faculty members prepare PPT’s, videos and animations to create the best learning environment.
- **Communication Lab:** A digital communication lab provides an interactive platform to attain language skills.
- **Enterprise Resource Planning (ERP)-**Google Camps Stack is used in ‘sriet.ac.in’ domain that provides Email-id’s for faculty, students, alumni and administrative staff to share academic content, newsletter, magazine and news-letter.
- Faculty profile, class schedule, session plans, attendance, internal marks, assignments, and student database are maintained in ERP.

- **Google Classroom** is used to manage and post course related information - learning material, quizzes, lab submissions and evaluations, assignments, etc.
- Apart from regular classes, students are augmented with advanced courses provided through **NPTEL and MOOC**.
- **Online Drawing Tools** like concept maps and mind maps are used to enhance student-centric activities.
- **Online MCQ's and Polls** are regularly conducted to record feedback from students.
- **Virtual labs** helps faculty to check individual practical performance among multiple students. Open source software is also available to enhance knowledge level of the students. Lab manuals are mailed to students before the practical classes.
- **Testmoz**, an online website, is used to upload individual tasks where faculty can monitor students during lecture.
- Currently, **Go-to-Meet** and **Google-Meet** platforms are used to deliver online lectures. Links are generated and distributed to students. File sharing, Chat option and hand raise are available to ask and clarify their doubts.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process.	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 13.06

2.3.3.1 Number of mentors

Response: 53

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
Mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
List of the faculty members authenticated by the Head of HEI	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 10.86

2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
9	6	6	5	11

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 3.25

2.4.3.1 Total experience of full-time teachers

Response: 214.58

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

Response:

Internal Assessment Procedure:

- The Institute prepares **Academic Calendar** before the commencement of semester based on Academic Schedule given by Anna University.
- It includes **specific dates** for completion of syllabus coverage and conduct of Continuous Internal Assessments (CIAs) for theory.
- The internal assessment process is communicated to the students by respective faculty in the first week of every semester as well as during the **orientation program** for first-year students.
- Further, changes in schedules, patterns, methods if any, are immediately notified to students through classroom briefing by **concerned class advisors and it will be displayed in department notice board.**
- The Institute has prepared standard formats for question papers depending upon the type of subject based **on Course Outcomes (COs)**. While setting questions, previous years university exam questions are referred.
- **Department IQAC coordinator** evaluate the quality of question papers and coverage of entire COs. The first CIA question paper is prepared in such a way that 1 & 2 COs are attained, Second CIA another 2 & 3 COs are attained and Third CIA another 4 & 5 COs are attained by using the revised bloom taxonomy verbs.
- The **Exam Cell and IQAC team** checks the process of conduct of entire evaluation process (including the level of questions, invigilation, marks allocation & attainments) and provides its recommendations for improvement on a continual basis.
- Faculty members are instructed periodically on practicing fairness and transparency with respect to evaluation process. Syllabus for CIA is communicated to students by class teachers in advance.
- Faculty members prepare **two sets of question papers** per course and after getting approval from corresponding HOD and Department IQAC Coordinator, it is submitted to Exam Cell one day before commencement of test.
- **One of the question paper** is randomly chosen by COE and given for the exam.

Question Paper Pattern:

Internal Tests (50 Marks)

Part A – (5 x 2 Marks = 10 Marks)

Part B – (Either or Questions 2 x 13 Marks = 26 Marks)

Part C – (1 x 14 marks = 14 Marks)

Evaluation Process:

- Answer scripts of CIA are **evaluated and distributed within one week of the internal exams** for verification of answer and marks. After the evaluation of test papers, Answer Key is made available to enable the students to compare their answer and results are discussed in class, before it is signed off by the student.
- Results of internal tests are uploaded from **time to time in affiliating University web portal**, from which internal assessment is compiled by affiliating university.
- Students can view their attendance and internal test marks in Anna University web portal which can be viewed at any time.
- The performance of students is sent to **their parents through Letter**. Information about student having low attendance is also intimated to their parents over phone.

Students are free to interact with teacher to resolve grievances if any, regarding assessment. Complete transparency is maintained in the system of internal assessment which enhances bonding between faculty members and students.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.5.2 Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

Response:

Internal Examination:

- Internal examinations are conducted to award internal marks for students with utmost care, **transparency and fairness**.
- Question papers are prepared for internal examinations by respective faculty and approved by Department IQAC Co-ordinator & HOD, which provides scope for two-stage verification to improve quality. Such question papers enable students to handle their end-semester examination confidently.
- If a student receives **improper/alternate subject question paper or any data is missing**, it will be immediately intimated to Exam Cell member by Invigilator and correct question paper & extra minutes will be given to students.
- If any claim is **out of portion/wrong question or data** in internal assessment test, Exam Cell verifies the same with concerned subject Faculty/HOD and takes corrective action.
- In case of **malpractice in internal examination**, Invigilator immediately hands over his/her booklet to exam cell and disciplinary action will be taken after inquiry, by giving a fair chance to the student to explain his/her side.
- If student rises any **doubt regarding question paper**, invigilator immediately informs to Exam Cell to make arrangements with the corresponding Faculty for clarification.

Evaluation:

- **Scheme of evaluation** is discussed in classroom with students for presenting answers in internal tests. **Answer key** is displayed in Google Classroom which ensures transparency in valuation.
- After completion of internal tests, Faculty members are asked to use Rubrics assessment tool to evaluate answer scripts and complete them in two days.
- If students face any discrepancy like **total mismatch or no mark/less mark for answered questions/not satisfied with assessment** in answer script, concerned Faculty member would solve it immediately.
- If the student is still not satisfied with resolution, he/she can take it to HOD.
- After every internal test, **mentors will monitor** and discuss the performance of internal test with their mentees and provide guidance.
- Retests are conducted for Students who remain absent due to genuine reasons.
- Students can view their Internal Assessment marks which are entered in University Web Portal.

External Examination:

- End semester examination is monitored as per University guidelines.
- **Discrepancies in question paper** noticed by Student/Faculty are intimated to Exam Cell by faculty. COE represents discrepancies to affiliating University through Principal within 24hours.
- If any **malpractice** during University examination is referred to Examination Cell and is dealt with as per the guidelines of University.

Re-Evaluation:

- Students can apply for re-evaluation of their answer scripts within a week from declaration of results if they are not satisfied with their results.
- After publication of results, students have provision for receiving photocopy and applying revaluation of answer sheet.
- If students have **grievances related to evaluation** of University answer scripts, it is intimated to the subject handling Faculty and HOD if necessary, for further action.
- Course handled Faculty evaluates **photocopy and recommend for revaluation**.
- University publishes **revaluation results** after completion of the process.
- Students can apply for challenge revaluation if they have any disagreement with revaluation result. Amount paid for challenge revaluation is refunded, if the student gets a higher grade/pass.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

Response:

Response:

SRIET strives to become the most preferred destination for holistic education to meet the industry demands. The Vision and Mission of the Institution emphasize the development of wholesome technocrats with discipline and integrity. The Learning Outcomes forms an integral part to achieve the Vision, Mission and Quality Policy of our Institution. The above goals along with Programme Outcomes are communicated to students and parents through various mediums, including the Principal's address. In addition, Course Outcomes of each subject is explained by the respective faculty when communicating to students in the classroom besides to displaying on the website and significant locations in the college.

Program Educational Objective (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs), defined by Anna University vide 2017 regulations, have been meticulously followed for all Programmes / Courses in the curriculum. Several trainings are provided for Faculty members to improve the awareness about PEOs, POs, PSOs and COs mapping and attainment. Alumni Students, Academicians and Industrial Experts are also invited to interact with the students and faculty to share about technology advancement and suggest add-on courses which enhance employability.

Course Outcomes describes the cognitive mechanism that a course offers, which result in the information and skills that students learn at the end of each course. In this way, each course is designed to meet around 5 Course Outcomes.

- The faculty members prepares detailed lesson plan for their course file, including laboratory, based on POs, PSOs, and COs mentioned in the syllabi. Department Advisory Committee (DAC) meets at the beginning of semesters to review the COs and effectiveness of academic process executed in the previous semester. And also considered the suggestions from the stakeholders to provide inputs for the faculty members to revise the COs, if necessary. The concerned Head of the Department (HoD) and IQAC Coordinator reviews the lesson plan to ensure the objectives.
- COs attainment are reviewed after each CIA test for all students in the classroom and corrective steps are taken to address the gap, if any, through assignments, seminars, counselling and special coaching.
- Each Course Outcome is mapped to Program Outcomes in terms of relevance. Three levels of relevance based on the degree of correlation are used and the levels of correlation are marked as 1, 2 and 3 for low, medium and high respectively.

POs, PSOs and PEOs are displayed on College Website, Departments, Classrooms, Laboratories and Course Delivery Plans. COs are specified in the Curriculum, Syllabi and Course Plan.

POs, PSOs and COs are also communicated to the students through the following Activities/Meetings

- Orientation / Induction programme
- Presentation of the Lesson Plan in the First Lecture
- Departmental Meetings

In addition, there is a continuous thrust given by course teacher and mentors to make the students aware of the outcomes of any course and convince them to understand the importance of an Outcome-Based Education system.

File Description	Document
Upload COs for all courses (examples from Glossary)	View Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

The institution aims to impart outcome-based education and transform the students into socially responsible, competent engineers. The course objectives are attained through effective delivery of the curriculum. Each program has a number of courses and each course has its outcome. Attainment of all these outcomes will lead to the attainment of the Program Outcome.

The efficiency and effectiveness of the process are continuously monitored, evaluated and enriched by taking inputs from the discussion/suggestion/decision taken in the Department meetings and the meeting with the Head of the Institute.

Attainment of Course Outcomes:

Benchmarks are set for the achievement of COs to determine whether they have been achieved or not. Attainment levels are decided based on the following:

Benchmark	Attainment Level
50% of students get more than or equal to the threshold	1
60% of students get more than or equal to the threshold	2
70% of students get more than or equal to the threshold	3

Weightage for the Attainment of Course Outcomes:

Course Attainment = 80 % of Direct Attainment + 20% of Indirect Attainment

◦ Direct Assessment Tools

For Theory Course Outcomes of Students performance are evaluated based on the following parameters,

- Continuous Internal Assessment (CIA) tests, (Weightage:25%)
- Assignments (Weightage:15%)

- End Semester University Examination (Weightage: 40%)

For Practical Course Outcomes of Students performance are evaluated based on the following parameters,

- Observation and Record work of experiments
- Working prototype model and Viva Voce
- End Semester University Examination.
- **Indirect Assessment Tool**
- Course end survey (for COs evaluation)

Course end survey is conducted at the end of every semester. The survey feedbacks are consolidated and attainment level of COs are calculated.

Attainment of Program Outcomes and Program Specific Outcomes:

- **CO-PO Mapping & Course to PO Mapping**

Program Outcome (POs) are graduate attributes attained by a student during the course of study in a particular regulation under CBCS. Normally, Program consists of twelve Program Outcomes and sixty Courses. Each course has five Course Outcomes (COs). Head of the Department has to analyze the attainment of POs of a each student at the end of final semester and consolidate to validate the overall attainment level for a particular batch.

The curriculum includes theory subjects, practical subjects, projects, seminars and technical presentation. Each subject has to meet the requirement of three to five POs as mentioned in the curriculum and syllabi of university. HoDs collect the CO attainment from each faculty semester wise and consolidate the CO PO attainment and Course-PO attainment.

Survey

- Exit Survey from students (for POs & PSOs evaluation)
- Alumni Survey
- Employer Survey

Above mentioned surveys are taken at the end of the programme and consolidated. CO-PO Mapping, Course to PO mapping and consolidated outcome of the survey gives the attainment level of each program. This attainment level of POs and PSOs are mapped against the target to find the outcome of the program.

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years**Response:** 65.93**2.6.3.1 Total number of final year students who passed the university examination year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
143	117	93	44	87

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

2019-20	2018-19	2017-18	2016-17	2015-16
160	239	144	91	111

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document
Paste link for the annual report	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 currently enrolled students (Data Template)	View Document
Upload any additional information	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 0.41

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)

2019-20	2018-19	2017-18	2016-17	2015-16
0.105	0.30	0	0	0

File Description	Document
Institutional data in prescribed format	View Document
e-copies of the grant award letters for sponsored research projects / endowments	View Document
Any additional information	View Document

3.1.2 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 24

3.1.2.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
2	4	0	0	0

3.1.2.2 Number of departments offering academic programmes

2019-20	2018-19	2017-18	2016-17	2015-16
5	5	5	5	5

File Description	Document
Supporting document from Funding Agency	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Paste link to funding agency website	View Document

3.1.3 Number of Seminars/conferences/workshops conducted by the institution during the last five years

Response: 113

3.1.3.1 Total number of Seminars/conferences/workshops conducted by the institution year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
49	33	8	11	12

File Description	Document
Report of the event	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.2 Research Publications and Awards

3.2.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years

Response: 1.06

3.2.1.1 Number of research papers in the Journals notified on UGC website during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
26	16	6	12	14

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.2.2 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: 0.49

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

2019-20	2018-19	2017-18	2016-17	2015-16
8	20	4	0	2

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.3 Extension Activities

3.3.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

Sri Ranganathar Institute of Engineering and Technology(SRIET) encourages students to involve in social services to facilitate holistic evolution. Students are prepared for societal and humanitarian challenges by having exposure through various extension activities. Our Institute works with neighboring community and carried out a range of extension programs to help on the needs of neighborhood under National Service Scheme (NSS), Youth Red Cross (YRC), Red Ribbon Club (RRC), Unnat Bharat Abhiyan (UBA) and other activities. Participating in such activities enlarges the knowledge, leadership qualities, skill level and self-confidence of students. Institute's NSS Unit and UBA organizes orientation program every year for students to inculcate the value of community service and motivate them to enroll for the above programs.

Unnat Bharat Abhiyan (UBA)

Institute adopted five nearby villages under UBA Scheme and a group of students together with faculty members visited those villages to take household surveys. The analysis of the same has been shared with Government. Other activities involving students and staff members in the adopted villages are:

- Students are enthusiastically taking part in **Swachh Bharat** cleanliness drives in adopted villages and also in the campus.
- Our students created awareness on hygiene in nearby villagers as a part of Outreach Programme of Swachh Bharat initiatives.

National Service Scheme (NSS)

NSS unit with faculty coordinator and student volunteers are active in our Institute. Participation in NSS shapes our students as a compassionate and responsible citizen. The unit carried out numerous activities including:

- Environment consciousness has been created among students, staff members and through them in neighborhood.
- Humans, animals and environment depend on trees for survival. Our NSS team taken up many tree plantation drives in past three years.
- Campaigns on “No to Plastic” have been executed by students with the support of staff in the adopted villages.
- In-house Traffic Awareness Program has been conducted by the law of enforcement official to create awareness and importance of “Following Traffic Rules”.
- Medical camp and Eye camp were conducted inside the campus to ensure health and wellness of staff members and students of the Institute.
- Yoga & Meditation sessions organized in the campus helps to enlighten and empower student minds and shape the overall personality.
- Medical camp was conducted in nearby villages as an extension activity.

Our students and faculty members while working on NSS projects in villages, they also carry out motivating activities like personal grooming, personality development, gender equality, maintaining cleanliness around the village area, maintaining toilets in a hygienic condition, educating adults and girls to maintain hygiene, usage and proper disposal of sanitary napkins.

Youth Red Cross (YRC) and Red Ribbon Club (RRC)

Youth Red Cross (YRC) and Red Ribbon Club (RRC) in SRIET actively entail various activities such as:

- “We can I can” awareness program on World Cancer Day conducted in the neighborhood.
- Voluntary Blood Donation Drives become a regular practice and quite a number of students and faculty donors are active in our campus.
- International White cane day in association with Indian Association for the Blind.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.3.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years**Response:** 11**3.3.2.1 Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

2019-20	2018-19	2017-18	2016-17	2015-16
2	1	2	1	5

File Description	Document
Institutional data in prescribed format	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.3.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**Response:** 54**3.3.3.1 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
13	11	12	11	7

File Description	Document
Reports of the event organized	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.3.4 Average percentage of students participating in extension activities at 3.3.3. above during last five years**Response:** 71.73**3.3.4.1 Total number of Students participating in extension activities conducted in collaboration with**

industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
489	473	581	541	405

File Description	Document
Report of the event	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

3.4 Collaboration

3.4.1 The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-job training, research etc during the last five years

Response: 204

3.4.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-job training, research etc year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
42	56	87	11	8

File Description	Document
Institutional data in prescribed format	View Document
e-copies of linkage related Document	View Document
Any additional information	View Document

3.4.2 Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the last five years

Response: 40

3.4.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
13	8	10	2	7

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document
e-Copies of the MoUs with institution./ industry/ corporate houses	View Document

MAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

1. Academic Facilities:

SRIET follows AICTE norms in providing adequate infrastructure facilities be in terms of numbers and area for classrooms, laboratory, drawing halls, seminar halls, tutorial halls, computers, IT infrastructure, etc... In addition to that, Institution also follows University norms with respect to laboratory curriculum viz., experiments, detail of equipment and other infrastructure requirements including department offices, exam cell, strong room, etc. The above provisions have been continuously inspected by Anna University before granting affiliation.

Institute has more than the specified area of land and buildings as required under AICTE norms. SRIET has a lot of trees and lawns which creates a green cover making it a pleasant location to study and live in. It also helps in reducing Carbon emission and its neutralization.

SRIET has four blocks that are well connected to cater teaching-learning activities and three separate hostel blocks to accommodate the students. Block A in-houses all the departments consisting of five tutorial rooms, twenty classrooms and two seminar halls equipped with smart learning systems including LCD projectors, wireless microphones, marker boards and public announcement system to conduct lectures, workshops, etc. Each department is provided with sophisticated cabins for the faculty members. It also houses Board / Principals' office, Administrative office, Library and Language Lab.

Block B in-houses a seminar hall with more than 400 seating capacity and physical education department. All department laboratories including two drawing halls are in-house in Block C and D.

2. Laboratory Facilities:

53 laboratories are established in an area of 4720 sq.m. to facilitate the departments' specific curriculum requirements to accommodate state-of-the-art lab equipment, machinery, tools and workshops.

Apart from that, the institute has specific facilities as follows:

- Four advanced production CNC machines
- Steam-power plant
- E-TAP Licensed Simulation Software for 10 users
- CRO 30 MHz and PV Panels 100W24V, PV emulator and, micro-wind energy generator module in the Renewable Energy System Lab

- Mixed Signal Oscilloscope
- Three work station for survey
- SAI Incubation Centre - IoT

Moreover, Institute has facilities for research purposes including UTM, triaxial testing machining, Network Simulator 2 and Cooja Simulator IoT.

3. Computing Facilities:

- Institute has computers and printers almost double the number of requirements as specified by AICTE. RAM of computers are upgraded and printers have domestic and heavy-duty variants. Enough scanners and photocopy machines are also available.
- An in-house ERP (CAMPS) fulfils processes including Staff Management, Student Management, Curriculum Management, Academic Process Management (Course registration, Timetable, Attendance, Internal marks, Question bank, Lesson plan documents), Examination Management, Library Management, Stores and Materials Management, Documentation Management and Analytics.
- All classrooms, seminar halls and department/ general conference rooms have multimedia projectors and audio systems. Exclusive IBM servers with 100 Mbps internet connectivity is available.
- WIFI enabled campus facilitates the student and staff to access E-resources and journals.
- Advanced educational software packages viz. Solid works, AutoCAD, Creo, ANSYS, CFD, MATLAB, Simulink, STAAD Pro, Lab View, Oracle-SQL, Fanuc and Automation Studio etc. are also available for the computing purpose

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Response:

SRIET has sufficient facilities for indoor and outdoor games, auditorium, yoga center, gym, etc. Department of Physical Education (DPE) takes utmost effort in training our students enabling them to participate in sports & games in inter and intra collegiate events. Spacious indoor & outdoor play areas provide ample scope for all kinds of physical activities collectively and individually. While matches between departments or with nearby polytechnic students are regular phenomena, Sports day conducted every year also provides a chance for everyone to identify, improve and compete in the events at

University, District and State level sports competitions.

1. Facilities for Cultural Activities:

The institution has a sophisticated auditorium for practicing and performing different cultural programs. To exhibit students' unique talents, Fine Arts Club, Movie Club, Cultural Club, Crafts & Arts Club, Photography Club and Muthamil Mandram are available in the Institution. Women's Day, Engineer's Day, Teacher's Day, Annual Day, Pongal, Navarathri and Onam are celebrated with many cultural programs. Keeping a central theme, competitions in dance, singing, mimicry, instrumental music, classical music, folk arts, rangoli, hand-crafts, skit, etc... are arranged. SRIET has a team of Band sets and Drums players.

2. Sports:

a) Outdoor Games:

Institution provides outdoor facilities for Cricket, Badminton, Tenikoit, Football, Throw ball, Handball, Tennis, Volleyball, Kabaddi, Kho-Kho, Ball Badminton, etc. For each game, playground areas are clearly earmarked. Normal Games materials are purchased and provided by the Institution.

b) Indoor Games:

Institution has indoor facilities for table tennis, chess, carrom and gymnastics etc. Moreover, hostels are also equipped with indoor game facilities. College has a good collection of sports materials for effective utilization by students during holidays too. SRIET often houses All India Powerlifting Championship training in its Campus and has a strong association with Coimbatore Powerlifting Association.

c) Athletics:

SRIET has eight lanes-200 meter tracks for athletic field events like 100/200/400/800/1500 meters etc... for individual events, relay running and hurdle race. It also has areas for shot put, discus throw, javelin throw, long jump and triple jump.

3. Fitness Centre - Gym:

SRIET gymnasium has a parallel bar, body fit total gym multi bench leg curl, Weight Plate Rods, Weight Plate, Sit Up Bench, Twister Sitting & Standing, Dumbbell Flat Bench Press, Push Up Stand, Gym Ball, Hi-Let Pulley, Chest Press, Shoulder Press, Exercise Cycle, Rowing with Seat Moving, Steel Dumbbells, Stepper and Bench Press.

4. Yoga Centre:

Yoga Centre is available for conducting yoga classes in which 50 students can be accommodated at a time. Various programs on topics related to stress relief, mind relaxation, memory power enhancement, meditation, decision-making techniques and personal hygiene are conducted for the benefit of students and faculty members. Certain yoga courses viz., Kriya Yoga, Therapeutic Yoga and Advanced Yoga are taught in Yoga classes. Besides, the Institution celebrates International Yoga Day which helps to enhance awareness among students. It has a continuous association with world-famous yoga organizations like Art

of Living, Vethathiri Maharishi Yoga and Kaya Kalpa Research Foundation and ISHA.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 23

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 23.26

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
8.22	14.2	49.49	52.599	40.96

File Description	Document
Upload audited utilization statements	View Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

1. Central Library

Central Library has around 16000 books in its collection and was established in a spacious and pleasant environment. Every year, SRIET subscribes around 50 printed journal which has been kept in separate area for ease of accessibility.

Considering the importance and easy accessibility, library is located in first floor of Main Block and fully automated through Integrated Library Management System (ILMS) namely “AutoLib” from the year 2011. The software handles all library activities such as issue, renewal & return of books, data entry, storage & retrieval, online book reservation, member logins, report management, e-resource management, user data maintenance, utilization analysis, article alert service, etc.

Name of ILMS Software: AutoLib-Integrated Library Management Software and AutoLib Android Mobile App

Nature of automation: Fully

Version: 20.01

Key Features:

- The state-of-the-art **AutoLib Library Management System** enables easier transactions and perfectly secures all library resources. **The barcode-based access gate register** allows users to enter the library by only showing their Identity card.
- **AutoLib LMS has barcode scanning facility for books also**, puts it on par with the modern libraries in keeping track of issuance and returning of books in a foolproof manner.
- **Online Public Access Catalogue (OPAC) system** allows users to identify books available in the library by searching Author, Title, Year, Subject etc.
- **AutoLib Android Mobile App** allows users to access and check the availability of library resources from anywhere and can also reserve the books.
- Single window access to all resources
- GUI interface/ **Client/server architecture**
- Advanced search – multiple search criteria using Boolean operators
- **Auto due reminder** to users E-mail
- Online stock verification support
- Sorting / printing large number of reports/statistics of usage of books, transactions etc... and export into EXCEL file formats
- Google search and Google book search integration
- User Request service for new books, journals, photocopy, suggestions, feedback etc...

2. Digital Library

In the current scenario students accessing digital content place a vital role in learning process. SRIET has a three-tier system providing such quality e-resources to students as detailed below:

Open Access: Many open access resources are available for students such as IEEE, Elsevier, National Digital Library of India (NDLI), ACS e-Books, AMS Books etc. and details of the same are displayed in SRIET website along with links.

Subscribed Resources: To enable students to access the most advanced books and journals, SRIET has subscribed certain well-known e-learning materials like Springer Link (Three subjects collection - Engineering, Computer Science and Earth & Environment), DELNET Pro-Quest Engineering & Technology, DELNET Institution Membership etc.. Through INFLIBNET a common access has been provided to students and faculty members.

Learning Management System (LMS): SRIET has a strong LMS which includes Syllabus, PowerPoint Presentations, Video Lectures, Lecture Notes, Question Banks and other learning resources. Anytime access is provided for the above through our website. In addition, library provides video lectures (NPTEL) services in digital form, as well as e-SHODHGANGA for developing research skills.

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 3.18

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
3.39	3.29	3.44	2.65	3.11

File Description	Document
Institutional data in prescribed format(Data template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year

Response: 28.23

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 214

File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Better IT connectivity through modernized facilities is a basic requirement for development the Institution, faculty and students to the outside world. SRIET strongly believes in updating and modernizing the IT facilities periodically as details detailed below:

1. Bandwidth:

The Institution has a **60 Mbps** leased line of internet connectivity from Skylink Fibernet Private Limited. In addition to that, **40 Mbps** internet connectivity from BSNL has been added for providing high-speed

broadband facility.

2. Wi-Fi facilities:

WIFI facilities have been extended to students, faculty members and guests. In a constant endeavor to upgrade the WIFI facilities with advanced unlimited access devices have been added to enlarge the user numbers and coverage area.

For better performance and to avoid misuse, MAC based individual authentication has been built-in for all staff and students usage. For guest users authentication has been provided through email.

3. Networking:

All the computers are connected through wired network and the networking devices like LAN switches, Ethernet, Optical Fiber Cable, etc... are constantly updated. The connectivity is better improved through installation of CISCO PoE LAN switches of 1Gbps speed and Dlink switches.

4. Software:

The Institution has ERP software, CAMPSSTACK, for managing its operations and academic functions. A separate domain email ID is provided to all students and faculty members through **campus.sriet.ac.in**.

Latest version of Microsoft Operating System (Windows 10) are installed in computers and its Microsoft Campus Agreement is renewed every year. The Institution periodically updates the softwares, like Microsoft Office, AutoLib, AutoCAD, Creo, ANSYS, E-TAP etc., which are used for its laboratories/library/office based on requirements.

5. Hardware:

RAM and HDD: The Institution updated the systems' hardware to:

- Intel Core i3 1st generation processor, 4 GB RAM DDR3, 320 GB HDD
- Intel Core i3 3rd generation processor, 8 GB RAM DDR3, 500 GB HDD
- Intel Core i3 10th generation processor, 8 GB RAM DDR3, 1TB HDD, 120GB M2 SSB
- Intel Core i5 4th generation processor, 8 GB RAM and 500 GB HDD

Servers:

Institution has updated the servers for better cliental experience:

- IBM server with Intel (R) Xeon (R) processor, 6GB Ram, 160GB hard disk.
- Institute established IBM server - Blade center S model with 5 blades, 6TB hard disk, VMware server virtualization and file over clustering through with the data can be transferred between blades without any downtime.

Printers and Scanner:

Many color and black & white LaserJet Printers, Scanners and Heavy Duty Machines are available in the Institution. New models with high efficiency are added as and when required. Few of the new additions are EPSON-L3110, EPSON-DS1630, high-speed LaserJet Pro M403DN printer etc...

IT Security:

Firewall was updated from version Sonicwall – TZ400 with a maximum of 50 users to Sonicwall – TZ3650 with a maximum of 500 users at a time. Latest centralized Trend Micro Apex One Antivirus has been installed and updated regularly.

Surveillance Cameras:

The campus including main gate, hostels, canteens, parking and every corridor is equipped with CCTV cameras for ensuring safety and security.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 1.92

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Response: A. 750 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

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

Response: 12.66

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)

2019-20	2018-19	2017-18	2016-17	2015-16
16.45	25.90	15.92	14.72	26.65

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document
Audited statements of accounts	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

The Institute has well-established systems and procedures to ensure proper maintenance and optimum utilization of physical, academic and support facilities.

1. Laboratory Facilities:

All laboratories are well-equipped with state-of-art facilities to meet the requirement of the University curriculum. At the beginning of each semester, laboratory in charge along with laboratory assistants verifies proper working of all equipment/instruments and availability of materials/consumables. Daily maintenance, lubrication, standard calibration of all equipment and devices, earthing of electrical and electronic devices, hardware and software maintenance are carried out in a periodic manner. Based on requirements, a concerned lab in charge through HODs raise the requisition for annual maintenance/repair to Maintenance In-charge who addresses it either internally or externally. Most of the major preventive maintenance tasks are taken up during semester leave to avoid disturbance of classes. Computers in laboratories are maintained periodically and based on requisition. Laboratories are cleaned properly to provide a dust-free environment by cleaning team and ensured by lab in charge.

2. Library Facilities:

Central Library: A comprehensive most advanced Library Management Software – AutoLib v.20.01 has been installed to enable librarian to monitor effective utilization of books, computers, journals, e-resources, and other learning materials in library. Issuing, renewal, stock and receiving of books are also maintained through AutoLib software. Entry and exit of each user are recorded through a fully computerized barcode facility. AutoLib Mobile Application enables anytime-anywhere access to ensure effective utilization of resources.

Digital Library: Institute has a Digital Library which includes computers, printers, scanner and internet facilities which is utilized by faculty members and students for browsing technical articles and online databases, NPTEL resources, scanning documents and printing e-journals, etc. Utilization of digital library is also monitored by librarian.

Department Library: Separate department library has been established in each department which has adequate textbooks, references, textbooks on latest technologies, project reports etc... for the easy accessibility of it to faculty members and students. Utilization are monitored by faculty in charge for department library resources and HOD.

The required maintenance works in the library is raised by librarian and are rectified by maintenance team or system administrator as the case may be.

3. Sports Facilities:

Institute is having in-door game facilities including caroms, chess, aerobic and front roll gymnastics, etc. Also, outdoor sports facilities like table tennis, cricket, football, handball, tennis, volleyball, kabaddi, kho-kho, ball badminton court and shuttle. Institute has 200 meters track with eight lanes for conducting athletic events.

Provision for sports hour has been included in timetable and effectively used. Students and faculty members of the college utilize these facilities even after college hours to get themselves engaged and also get trained to participate in intra/inter-college games and sports.

Physical director takes responsibility for maintenance, repairs and purchase of sports equipment. Physical director also maintains courts and athletics tracks properly on a daily basis with help of maintenance staff.

4. Computers and allied Infrastructure:

Software installation, troubleshooting and maintenance of Network Devices, Computers, Projectors and CCTV are handled by System Administrator working under Computer Science & Engineering Department. System Administrator also checks the internet connectivity on a regular basis. Upgradation of hardware and software is done periodically. Most of laboratories are utilized exclusively by students for their lab activities and project works. Lab in-charges maintains an entry register to record the utilization of laboratories.

While up-gradation of hardware and software is annual activity based on needs identified by departments, the maintenance of computers and allied infrastructure is a day to day activity. System administrator on receipt of a ticket on malfunctioning of computer or other devices would check the feasibility of repairing it locally or by an outside vendor. Minor repairs or modifications are carried out by system administrator and in case of outsourcing quotations/approval are obtained before it is carried out by the outside agency.

5. Class Rooms:

Basic classroom requirements like furniture, fans & lights, benches with chairs etc., are provided to improve the physical comfort for students. Besides, all classrooms are converted to Smart Classrooms with Computer, LCD projectors, and Wi-Fi facility to deliver the e-learning resources. At the beginning of every semester HODs ensure adequacy of facilities available in classroom. HoD also intimates

maintenance of existing facilities and additional requirements, if any, to maintenance in-charge through Principal. While preventive maintenance and minor repairs are carried out by internal maintenance team, major issues are solved by outside agencies. Classrooms are properly cleaned by housekeeping staff on a daily basis and monitored by in-charges.

6. Seminar Halls:

Seminar halls are well-equipped with LCD projectors, Audio systems, A/C, etc. HR Department ensures the availability of the hall by scheduling as per requirements raised by HODs. A technical staff is allocated to operate and maintain the facilities available in seminar halls during programs. Housekeeping and maintenance requirements are carried out by concerned team and monitored by HR Department.

7. Other facilities:

1. **Reverse Osmosis (RO)** water treatment plant and water doctors are available to provide clean and portable drinking water. They are maintained by the supplier regularly.
2. **Lift** facilities are available in the Institute which is maintained by the supplier periodically.
3. **Stores** facility is available for stationaries and urgent requirements
4. **ATM** facility for financial transactions.
5. Proper cleaning of the **water tank** is ensured by maintenance team.
6. 62.5 kVA & 15.5 kVA **generators** and six numbers of 20 kVA & one 5kVA **UPS** are available for ensuring uninterrupted power supply.
7. **Yoga and Gym** are given to the students periodically for ensuring better physical and mental health.
8. **Transportation:** Day scholar students and staffs are using college buses. Utilization and maintenance of buses and other vehicles are monitored by the concerned drivers and HR-Head.
9. **Canteen / Hostel:** Administrative officer ensures housekeeping, utensils, equipments and furniture's in canteen and hostel are maintained in good standard.
10. **Safety:** Administrative officer also ensures the fire extinguishing systems are checked and maintained periodically.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Response: 86.93

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2019-20	2018-19	2017-18	2016-17	2015-16
647	783	684	533	427

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	View Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 29.03

5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2019-20	2018-19	2017-18	2016-17	2015-16
194	236	271	229	101

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format	View Document

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

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
Institutional data in prescribed format	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 75.9

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

2019-20	2018-19	2017-18	2016-17	2015-16
522	699	470	543	420

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

5.1.5 The Institution has a transparent mechanism for timely 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
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 46.18

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
81	118	52	51	43

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Institutional data in prescribed format	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 5.63

5.2.2.1 Number of outgoing student progressing to higher education.

Response: 9

File Description	Document
Upload supporting data for student/alumni	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

Response: 96

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

2019-20	2018-19	2017-18	2016-17	2015-16
4	2	1	1	1

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
5	2	1	1	1

File Description	Document
Upload supporting data for the same	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 20

5.3.1.1 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) year-wise during the last five years.

2019-20	2018-19	2017-18	2016-17	2015-16
4	7	2	4	3

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Response:

As student's interest and their overall development is the foremost objective, SRIET provides a platform for students to express their views and representation as member in various committees and also acquire essential skills, like administrative skill, leadership quality, team work, health and fitness, personality development, communicative skill and soft skill etc.

Student Council:

The student council is the voice of the student community through which students can involve in the affairs of the college, working in partnership with the Management, Faculty and Students for the benefit of the college and students. The purpose of this is to give students an opportunity to develop leadership by organizing and carrying out various activities in the institution.

Class Committee Meeting:

The objective of Class Committee is to improve teaching-learning process. The functions of Class Committee includes resolving difficulties experienced by the students in learning theory subjects in the classrooms and practical subjects in laboratories twice in a semester. Class advisor, Tutor, Subject handling faculty, HoD and other department faculty to ensure fair and transparency in the meeting and hear the views from the student of the concerned class.

Department Advisory Committee:

The curriculum gap is addressed in Department Advisory Committee where subject expert from industry, academic, alumni, department faculty, parents and students under the guidance of HoD participate and given their views and recommendations. The employability of students, skill requirement, add-on Courses and anything related to the academics are discussed in the meeting.

Training and Placement Cell:

Training and placement cell is active in our campus to arrange interviews from various companies for students and conducts training program from first year onwards. Students are trained in programing skills, soft skills and technical skills by both external and internal modes.

Library Committee:

Student representatives are nominated to Library Committee, which addresses the proper utilization of resources and services, maintenance, issuance of library books and project reports.

Sports & Cultural committee:

Student representatives give valid suggestions towards sports activities within the Institute. The purpose of the committee is to provide platform for bringing out the unique talents of students by promoting and arranging extracurricular activities in the college. It assumes the responsibility to plan all intra and inter intercollegiate sports/cultural events in the College. This committee also enhances the campus life experience of every student through various extracurricular activities.

Hostel and Mess Committee:

The main objective of the committee is to ensure the smooth functioning of hostel and mess facilities at SRIET. It takes care of quality and taste of food served in mess. It ensures conducive atmosphere for study and interchange of thoughts and ideas of inmates. This committee also shoulders the hygienic environment, responsibility of learn to live together and strengthen the relations with mutual cooperation and goodwill among the students.

News Letter Committee:

It is to provide a platform for students and faculty to expose their unseen talents. The purpose of the newsletter is to disseminate news about activities and development of the college, achievements of students, faculty and staff.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 20.6

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2019-20	2018-19	2017-18	2016-17	2015-16
25	24	20	18	16

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Institutional data in 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:

The Institute has played a pivotal role in shaping the careers of students into technocrats, leaders, entrepreneurs, researchers and global managers. With the objective to nurture a bond with alma mater, to enhance employment opportunities and to create a networking platform to share and influence the success stories of alumni.

Since its inception, the Alumni association has provided enormous support to the institute in fulfilling its goals. Alumni Association has provided adhesive bonding among the alumni members and the present students fostering a spirit of loyalty towards the institute and helping to promote its welfare activities, thereby benefiting the students of the Institute. The Alumni Association helps in holding interactive sessions to motivate current students about the employability and educational opportunities abroad.

The Alumni shares their opinions in social networks, blogs and forums. The Alumni provide feedback on competencies gained during their course and provide valuable information to improve curriculum on a continual basis. The Alumni Association helps in building a network of the alumni and helps the Institute in being in touch with the corporate world.

Aims and objectives:

The principle objectives of the Alumni Association are:

- To maintain the cordial relationship between all the stakeholders of the Institute students, alumni and industry.
- To generate innovative ideas for grooming the current student's potential and skill by discussion on recent trends in technology and industry.
- To work as an ambassador of the Institute in a long term relation through social media's.
- **Contributions from Alumni:**
- **Expert speakers:** Alumni has helped us in getting expert speakers from Industries to share their knowledge and wisdom.
- **Experience sharing:** Our Alumni have participated in open forum discussions and shared their learnings and experiences. They talked about the difference between the college life and working in Industry. They also talked about cracking technical interviews, competitive exams and placement

opportunities. Alumni have guided students on enrolling for higher education and certification courses. Normally, students listen to the voice of their seniors. When the Alumni talks about the challenges they have encountered in settling in the Industry and the competence required the students take a serious note of it and start working on it.

- **Curriculum enrichment:** Alumni, as a member of Department Advisory Committee, played a major role in identifying the Add-on Courses to bridge the gap between the curriculum and industry requirements. They also provide inputs in bringing outside experts / resources to give the required inputs to students on advanced technologies and recent developments.

Facilitator for employment opportunities: Alumni being the brand ambassadors share information about the Institution and help the juniors in getting placements. They act as a reference in the Industry they are working and also provide information on placement opportunities in other industries as well.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: E. <1 Lakhs

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

SRIET has clear cut vision and mission statements which forms as the fundamental for functioning of the Institute having future plans and students growth in mind. The Vision and Mission of Institution are:

Vision:

- To be a unique Institution that enables students to become contributing Humans towards Technology, Business and Sustainability of natural world.

Mission:

- Our mission is to facilitate students with harmonious teaching and experiential learning by integrating Industrial and societal needs with curriculum, providing requisite infrastructure facilities and imbibing ethical values.

While the vision of the Institute is to enable our students to grow as future technocrats and business leaders making valuable contribution to sustenance and growth of the world as a whole. Our mission defines the ways to achieve the above vision in terms of teaching methodology, learning outcomes, integration of the needs of Industry, business and society. It also talks about creating necessary infrastructure for its effective delivery and making the student a holistic person by emulating human values and ethics.

Governance:

Institution plays a major role in making a student to a better contributing human being. Governing the Institution effectively ensures implementation of its vision, mission and plans.. Governing Council of the Institute has been constituted as per the guidelines of AICTE. It comprises of members from Management, Representatives from Academic Institutions & Industries, Statutory body Representative and Faculty members. All policy related subjects in managing the Institution like budget planning, infrastructure, scholarship, new courses, auditing, accreditation etc., are discussed and communicated in the Governing Council and Communicated to the concerned for implementation.

Academic Council is constituted with Chief Executive Officer, Principal, Dean, HOD's, Academicians and Industrial Experts as members. All academic affairs like academic calendar, curriculum delivery & methodology, add-on courses, faculty development programs / short term training programs, placements, etc... are discussed, approved and communicated to all for implementation.

Perspective Plans

SRIET designs perspective plans for every five years to fulfill the mission and achieve the vision of the Institution. It develops specific goals with regard to Institution, Academics and Research. Obtaining

various accreditations, ISO certification and improving digitalization were the plans at Institutional level. Key academics plans were implementing RBT concepts, enhancing the participation in FDP, STTP and NPTEL. On research front industry connect, funded projects, improving library facilities and technology business incubation centre were the plans.

Faculty Participation

SRIET encourages participation of Principal, Dean, HOD, Faculties and Students in Research & Development, Entrepreneurship Development Cell, Women Empowerment Cell, Special Interest Group, Project Development Cell and various extension / outreach activities organized by NSS, YRC, RRC & UBA. HODs monitors, controls and takes prompt decisions for smooth functioning of day-to-day activities in the campus. Faculty members are responsible for effective teaching-learning process and involves themselves in departmental activities. Functional committees are also headed by HODs / and nominated faculty members. In order to achieve harmonious teaching, faculty members are encouraged to express their views freely and decide on issues based on majority view.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

SRIET strongly believes the culture of Decentralization and Delegation of powers in the Institute that would faster its development and create more accountability amongst individual. Management and Governing Council designed the organizational structure of SRIET in such a way that decision making responsibilities are delegated to each position in a hierarchical manner. Besides to their roles and responsibilities staff members involves in various statutory committees like Governing Council, Academic Council, Disciplinary Committee, Anti-ragging Committee, Grievance Redressal Committee, IQAC Committee and other Functional Committees to place their views for consideration & implementation.

Decisions on policy or larger financial implications requires Management approval and Principal puts up his recommendations to CE / Chairman. Normally, Principal in consultation with Dean and HODs makes Institutional level decisions. On emergency situations he takes decisions based on issues for speedy implementation. Academic activities are headed by Dean and supported by the HODs. HODs monitors, controls and takes prompt decisions for the smooth functioning of day-to-day activities in the department. Besides regular academic activities, other co-curricular, extra-curricular, extension activities are planned and executed by various forms / cells / administrative set-ups like Planning & Monitoring Committee, Disciplinary Committee, Grievance Redressal Committee, Internal Complaint Committee, IQAC, Anti Ragging, etc.,

Case study 1

Faculty of SRIET continuously tries to enlarge the skill set of students by providing additional information training or workshops to make them better competitive. Surveying is one of the civil based subject which is used to measure horizontal & vertical distance and levelling of surfaces. Land surveying is a mandatory skill for civil engineering students as the various parameters of land plays a major role in deciding suitability of land for developing infrastructure and the precautions to be taken on & after the time of construction.

The basic surveying equipment theodolite, which is being used to measure the angle, length, depth, height etc., is taught in our laboratory and to enlarge the knowledge base of our students, one of our civil faculty planned to provide a workshop on “Current Trends and Techniques Using Total Station and Auto Level” as a Content Beyond Syllabus. He placed a proposal to do it through a workshop by an expert external team for about two days. HOD / Principal have discussed it with the faculty and approved it. The faculty have contacted an Agency who are well versed with surveying techniques and arranged for the workshop. An expert and four of his team members visited SRIET and conducted hands-on training program for students to practice themselves. During the training program a MoU has been signed between SRIET and & ToSET Land Survey Institute enabling the students to get the most advanced training year on year.

The above case study clearly reveals how effectively the decentralization and participative management process has been put in practice in SRIET as an individual faculty member is empowered to decide on providing the Content Beyond Syllabus and how the same has been supported by the system.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

SRIET develops long term strategic plans to move forward in positioning the Institute and certain short term plans to address the immediate requirements that may arise out of industry / institutional need, advancement in technology, change in employability criteria, etc... Normally, the strategic plans talks about a five year period and short term plans are for a year or two.

Activity successfully implemented in line with strategic plans:

SRIET has identified a new concept of Incubation Centre to educate and develop the students on advanced technology and taken it up as a part of the strategic plans. To achieve the same, SRIET has decided to bring in SAI INCUBATION CENTRE who has lot of experience in training the students. They have trained many students from IITs, NITs and other Engineering Institutions. In fact, they are also authorized trainers for leading, US based Texas Instruments Inc. under TI India University Program.

SRIET has entered into a MoU with Sai Incubation Centre to establish an in-house training facility to train the students on advanced techniques. Through this MoU, Sai Incubation Centre

1. Organizes technology seminars and workshops to provide inputs to student community on latest happening in the IT world.
2. Arrange Guest Lectures from industry experts, HR professionals, placement consultancies and technology vendors to improve students interface on global industry trends.
3. Provide industrial training as an ongoing process on varied leading edge technologies in relevant areas to staffs and students.
4. Helps students on project internship.
5. Participation in curriculum development meetings.

As a part of the above, a two days workshop on Internet of Things (IoT) has been arranged. IoT, being the fore runner on new technologies, defines the network of devices or physical objects which are embedded with softwares, sensors and other technologies for transferring data over internet. It helps in

- Monitoring and providing advanced information
- Accessing real-time information anywhere-anytime
- Speedy operation including voice command
- Adapting new techniques and standards
- Automation and control without human interference

Sai Incubation Centre has provided necessary kit to establish an Incubation Centre on IoT and interfaced it in computer lab so that the faculty members and students can work on it to have a real time exposure. This helps the students to understand the benefits of IoT on the above areas and kindles the enterprising skill of students. Students can utilize the lab to do various projects. Based on individual's interest both speculative and hands-on training were given to specified students in the IoT lab. Students have taken internship also in Sai Incubation Centre to sharpen their skills and enlarge their knowledge.

SRIET, in lines with its strategic plans and with a view to develop the students to become successful technocrats / entrepreneurs have entered a MoU with leading advanced technology training provider and establish an in-house Incubation Centre. The MoU for an initial period of three years and extendable. Similarly, SRIET has perspective plans for the forthcoming years too.

File Description	Document
Upload any additional information	View Document
Strategic Plan and deployment documents on the website	View Document
Paste link for additional information	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

Response:

SRIET has well defined organization set up and HR policies which imbibes the guidelines on appointment of employees, service rules, code of conduct and procedures to be adopted for effective administration.

Administrative set-up and Organogram:

The Organizational Chart details about various levels in the administrative set up of SRIET. Starting from Chairman, decision making process flows into the governing council which is the supreme body in making policies for smooth functioning of Institution, budget planning, infrastructure development and maintenance, scholarship and new courses, internal auditing reports, accreditation, etc. Overall management of the Institution, policy and financial related matters are handled by Chief Executive Officer. The day-to-day administration and developmental activities of the Institution is headed by Principal and Dean-Academics is responsible for all the academic affairs. Head of the Departments ensures effective delivery of curriculum and takes timely decisions on Departmental activities / administration. Faculty members are responsible for the delivery of the course, maintaining discipline, providing guidance and mentoring the students. Controller of Examination, IQAC Coordinator, student counsellor and physical director are taking care of activities in their respective areas.

On the non-teaching front, the lab / department assistants provides required support to the faculty. Librarian plays a major role in administering, maintaining and updating the library facilities. While employee welfare, maintenance, transport etc., are handled by HR-Head, administrative officer oversees hostel, canteen / mess, house-keeping and security.

Recruitment process:

While faculty man power requirement is guided by AICTE / Anna University norms, the non-teaching staff recruitment is done based on the requirements. In both the cases, as per HR policy of SRIET, once the vacancies are identified candidates are shortlisted from the data bank or by releasing internal / external advertisement or through reference. To make the recruitment process more scientific and accurate, the candidates are interviewed by a panel consisting Principal, Dean, HoD concerned, Subject experts and Management representative. Shortlisted candidates undergoes a personal interview with CEO and final appointment is decided.

Service Rules and Code of Conduct:

The service rule applicable for employees are mostly described as terms of appointment in the order. Other rules, regulations and procedures are detailed in HR manual and the same has been explained to the employee at the time of joining. Working hours, leave policy, incentivising faculty self-development activities, performance appraisal, promotions, honorarium etc., are detailed in the HR manual and effectively implemented.

Code of Conduct per se talks about the general responsibilities rested on the employees during the course of their employment in SRIET. It details about professional ethics, functional activities, disciplinary process etc.,

Procedures

HR manual also details certain procedures to be followed in the Institution for its smooth functioning. The procedures detailed are mainly related to hostel, purchase, store, maintenance and transport. While all the

above mentioned academic related areas are monitored through IQAC process, the ISO system and internal audits provides a monitoring platform for effective implementation of administrative policies and procedures across all Departments in the Institution.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

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	View Document
Institutional data in prescribed format(Data template)	View Document
ERP (Enterprise Resource Planning) Document	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

Progress of an organization depends on its employees. The Institute has good welfare schemes for the benefit of its teaching and non-teaching staff. Welfare measures provided to the employees enhances the morale and improves their involvement in the functioning of the Institution. Normally, it encourages a better connect of employees to the goals of the organization.

Welfare measures are those that are extended over and above the agreed salary part. It can be detailed under two major classifications as Monetary benefits such as Travel allowance, Incentives, Rewards etc... and Non-Monetary benefits like Leave Facility, Transport, In-house Primary Health Care, Insurance, Awards, Recognition, etc...

Common Welfare Measures:

1. **Transport Facilities:** All the faculty members are provided with free transport facilities for their travel to the Institution and back
2. **Leave Facility:** As per HR policy, SRIET extends Casual Leave, Vacation Leave, Medical Leave and Maternity Leave for all employees
3. **Travelling Allowance:** Travelling allowance is given for official travel to all staff members
4. **Incentives:** Employee receives incentives based on the outcome of individuals' performance
5. **Scholarship:** SRIET gives priority in admission, scholarships and fee concession to the wards of the employees
6. **Insurance:** SRIET has a group insurance scheme for all the staff members
7. **Health Care Facility:** Primary health care facility and a separate vehicle is available at the campus for medical emergencies. Emergency first aid kits are also available in all departments and laboratories
8. **Fitness Facility:** SRIET provides gym and yoga centre for maintaining physical health and work life balance
9. **Canteen** facility has been extended to all staff and the food stuff are priced based on no profit.
10. **ATM** facility is available in the campus.

Other Welfare Measures for Teaching Staff:

1. **Awards & Rewards:** Every year the best performing faculty is identified and rewarded during the Annual Day for producing University Rank Holders, 100% pass percentage or making any valuable contribution to Institution like Consultancy, Research & Collaboration, Funded Projects & Patents, Book & Journal Publications, Conferences, Workshops, Seminars, etc...
2. **On-Duty:** SRIET extended additional on-duty to the faculty members who are pursuing Ph.D.
3. **Recognition:** SRIET identifies and recognizes the faculty members who contributes to Institute a part from the curriculum activities

Other Welfare Measures for Non-Teaching Staff:

1. Extending EPF Scheme is implemented to all eligible members (as per PF Rules)
2. Extending ESI facility is implemented to all eligible members (as per Govt. Norms)
3. Free uniform to non – teaching and housekeeping staffs
4. Festival advance for housekeeping staff members

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years.**Response:** 44.62

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

2019-20	2018-19	2017-18	2016-17	2015-16
49	32	28	17	26

File Description	Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years**Response:** 10.4**6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

2019-20	2018-19	2017-18	2016-17	2015-16
12	9	11	9	11

File Description	Document
Upload any additional information	View Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres)	View Document
Reports of Academic Staff College or similar centers	View Document
Institutional data in prescribed format(Data template)	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).**Response:** 38.98

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2019-20	2018-19	2017-18	2016-17	2015-16
46	37	21	17	11

File Description	Document
Upload any additional information	View Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View Document
IQAC report summary	View Document
Institutional data in prescribed format(Data template)	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff**Response:**

Appraising the performance of an employee is an integral part in development of the Institution. A robust performance management system paves way for evaluating the performance of an individual amongst the peer group. It helps to identify the performance levels of individuals and gives input to reward them suitably and also initiate development programs to enhance their competence levels.

1. FACULTY – PERFORMANCE APPRAISAL

SRIETs' faculty performance management system has four parameters as detailed below:

1. Teaching & Learning: The Faculty performance in Academics is evaluated annually. The academic performance is evaluated using the following parameters, a. Teaching Analysis b. Result Evaluation for the Subjects Handled in Odd and Even Semesters c. University Rank or any other Achievements

2. Self – Development: Faculty should enhance their knowledge to improve their performance & problem solving skills, achieving personal goals and widening their knowledge. Following are the key indicators for analyzing self-development

- Continuing Education
- Publishing Books/ Chapters (International, National & Local)
- Publishing in International & National Conference
- Participation in Seminars, Workshops, FDP, STTP and Delivering Guest Lectures

3. Research: SRIET encourages faculties to take up research activities through rewards (as per Clause 13

of this policy) as well as accountable in performance management system. Faculties who exhibits initiatives towards research and developmental activities for strengthening the outcome of Institution are identified through following pointers:

- Publishing International & National Journals
- Funded Projects
- Consultancy

4. Contributions to Institution & Society Development: The Faculty performance is also evaluated based on the amount of work done in their respective department for its development, their contribution towards Institution and society growth.

2. HOD – PERFORMANCE APPRAISAL

Besides to the Faculty – Performance appraisal form, HOD's performance would be evaluated by also considering the following parameters:

1. Leadership & Management: To evaluate the initiatives taken to achieve the goal of the Institution & the implementation of strategic plans and the ability in decision making & handling grievances.

2. Academics: Analysis the effectiveness in curriculum implementation and ability to identify the gaps in the curriculum.

3. Discipline: In this parameter the HOD's efficiency in implementing code of conduct for faculty members & students and efforts for maintaining overall discipline of the department will be evaluated.

4. Communication: Effective communication will helps to provide guidance, enhances the productivity and maintains a healthy environment. HODs should convey the relevant information to staffs / students / parents in an appropriate way and always maintain a relationship with Alumni.

5. Relationship with Management: To evaluate the efficiency in carrying out board directives and contributions for the developmental activities.

3. NON TEACHING / ADMIN STAFF – PERFORMANCE APPRAISAL

Appraisal for the Non - Teaching / Admin staff members will be done on the basis of following parameters:

- Technical competence
- General impression
- Taking additional responsibilities / Contributions to institution & society
- Promoting Institution

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

SRIET has a well-defined financial management system in place. It has estimation on income and expenditures that may be incurred as non-recurring expenditures such as addition of fixed assets / infrastructure, library books, lab equipments etc..., and recurring expenditures like consumables, maintenance, power, salary, fuel, telephone & internet charges, etc... SRIET conducts internal and external statutory audits as mandated under law in defined periods. The income / expenditure estimation of the Institution has been prepared by the Principal in consultation with the department & section heads and placed in Governing Council / Management for approval.

SRIET has appointed a full time Accounts Officer and Accounts Assistant to take care of the financial accounting of the Institution. They are professionally qualified and has sound knowledge in operating the financial software, Tally v9.2. The Accounts Officer confirms and validates all the bills and vouchers, passes the bills, manages the fund after discussing with the management. He also monitors the delivery of goods purchased under Purchase Order and proper entry of Goods Receipt Note. The records maintained by the Accounts Department is subjected to both Internal and External Audits.

Internal Audit Process:

Internal audit process has been carried out by experienced professional once in six months. The internal auditor checks the fees receipt and other income receipts. While the fees receipts are mapped against each student, other income receipts are placed in the respective head of income.

The internal auditor also verifies all the vouchers in respect of the account head, voucher date, name of the party, purpose for which payment has been made, amount, authorization details and supporting documents. The entry of each voucher has been verified in the Tally software to ensure the same has been classified under proper account head. The auditor also audits Cash book / bank book, journal voucher, salaries / wages / honorarium, ledger / posting & security, tax matters and other records.

External Audit Process:

As mandated under law, the accounts of the Institution need to be audited by a qualified external auditor, who must be a registered Chartered Accountant recognized by ICAI. The auditor is appointed by the Management to do the statutory audit. The auditor and his/her team looks into every single financial transaction of the Institution and its entry in the accounting system. They strictly scrutinize whether all such transactions are carried out as per law with due approvals based on level of authority, payment of taxes and submission of statutory returns. The audit process has been carried out before the end of six months from the closure of every financial year.

After the completion of audit and verification of balance sheet auditor submits the report to Management for the finalization of process. The certified balance sheet and audit schedules, if any, is produced during the inspection by the affiliating University.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year-wise during the last five years (INR in Lakhs)

2019-20	2018-19	2017-18	2016-17	2015-16
0	0	0	0	0

File Description	Document
Institutional data in prescribed format(Data template)	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

For sustained operation of any Institution, sound resource mobilization and utilization process should be in place. SRIET has defined income mobilization sources as detailed below:

- 1. Contribution from Trust:** SRIET is established by Sri Ranganathar Trust founded with a noble vision of promoting education and developmental of society. True to its vision, trust and the members are contributing generously to the development of the Institution.
- 2. Fees:** Admission of students are made through Anna University Counselling (TNEA) and Management quota. Tuition fee for each programme is so designed to facilitate qualified students are getting admission in the Institution and well within the ambit of fees structure prescribed by Tamil Nadu Government higher education rules and regulations. Other fees such as hostel or transport are charged on “no-profit no-loss” basis and receipts are issued for all the fees paid by the students.
- 3. Donations:** Individual Indian nationals and industries can donate any fund to SRI Trust for the

development of SRIET. All such donations are exempted under section 80G of Income Tax Act and necessary certificates are issued to donors.

4. **Grants:** SRIET also welcomes and works for grants for the development of Institution or doing a specific project from government bodies and private industries/ organizations.
5. **Alumni Contributions:** Alumni of the Institution can also contribute to the development of the SRIET.
6. **Other Income:** SRIET aims to mobilize funds through consultancy services, research works, royalty on patents and skill development initiatives.

Optimal Utilization of Resources

SRIET designed various process for optimal utilization of resources. Funds generated from various sources are used to build, enhance and maintain physical infrastructural facilities, upgrade the technologies to match with the latest developments, faculty members and students developmental activities, etc...

- **Smart Classrooms / Seminar hall:** SRIET has enabled all classrooms and seminar halls with latest ICT tools by installing overhead projectors, better internet connectivity etc... This helped faculty members to reach out the latest technology advancements around the world into classrooms. Classrooms are also used to facilitate slow learners with additional supplementary classes.
- **Library:** Extended hours on Library, online anytime access to E-resources and digital library have enlarged the scope of library resource and its utilization.
- **Laboratories:** Laboratories are used for research and developmental works. In addition to that laboratories are also used for skill enhancement initiatives and trainings for Industries.
- **Sports facilities:** SRIET has very good sports and games facilities. Apart from usage of facilities by our students, it is also used to conduct inter college sports events. SRIET has the honor for housing National Powerlifting Coaching Camp in its campus. Many commonwealth / international powerlifting medalist have participated in the camp.
- **Fitness / Yoga Centre:** This facility is available to all employees / students and it can be used in the sports hours & after college working hours.
- **Seminar Hall/ Auditorium:** This facility, depending upon the availability, is being provided to government / non-government bodies to create awareness or training to the farmers and health workers.

File Description	Document
Upload any additional information	View Document
Paste 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

Response:

Internal Quality Assurance Cell (IQAC) has been constituted in 2017 and playing an important role in designing, developing, implementing and monitoring quality systems in relation to all academic activities in the institution. Principal is the chairman of IQAC cell which also has an industry experts and HoDs. The day to day function of IQAC is handled by senior faculty as a director and assisted by department IQAC coordinators. In inputs for the enhancement of knowledge level of the faculty members on advanced addition to monitoring the adherence of systems, IQAC actively involves in the development of faculty members, students and institutional development. IQAC contributes to Institution-Industry interactions, student's personality development activities in terms of Co-curricular/ Extra-curricular / Extension activities. IQAC also provides necessary technologies and through them equipping students to become competitive among peers.

1. HOSTING NATIONAL LEVEL TECHNICAL EVENTS

Post IQAC cell formation era has seen a lot more faculty/student developmental activities. Such development programs not only enhanced the quality and knowledge of faculty but also contributes to Students/Institution development as the trained, highly motivated faculty would constantly engage themselves in research, developing patent and disclosure of outcomes in leading national/international forums. SRIET hosted many national level technical symposiums which had representation from many colleges and universities. The name and fame of institution thus brought in to lime lights amongst the students, academia, industry and renowned research organizations. IQAC cell at SRIET has provided guidance to departments to organize more guest lectures, seminars, workshops, FDPs, paper publications, product exhibitions, patent fillings, extension activities. SRIET has made some notable achievements in this front.

2. FACULTY COMPETANCE/ STUDENT CAPABILITY ENHANCEMENT ACTIVITIES:

In line with vision of enabling students as future technocrats or entrepreneurs the IQAC cell encourage the Faculty members to take up student developmental initiatives in terms of building up their leadership, organizing, innovating, researching and enterprising capabilities. Many FDPs have been organized to enable the faculty members. This has resulted in the knowledge and quality level of faculty members and through them knowledge transfer has happened to students. Even from first year, making students to learn ethical practices and sharpen their personality traits, many programs are organized. They may be of voluntary or part of the curriculum. Faculty members constantly interacts with students in classrooms and outside to understand their viewpoints, requirements and suggestions to identify and develop appropriate mechanism to meet their needs. IQAC cell which is having participation of academic/industry expert's gives ideas in designing the means of inputs and its level to meet current trend in industry or research area. Each of our faculty members mentoring around 15 students in these activities. Such a good ratio of faculty members to students enables our faculty members to guide, concentrate, monitor and support students individually and collectively. This well-defined system of SRIET's IQAC cell resulted in more active participation of students in national/international, inter- intra college seminars, symposiums, workshops, guest lectures, internships, learning add on/ NPTEL and other online/offline courses.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

SRIET effectively used the formation of the IQAC in the Institution. Though contribution of IQAC is very vast in the development of the Institution, improvements that had been brought in academic area is the most significant. The improvements are noted in terms of quality and resultant as well. On the teaching learning front, Programme Outcomes (POs), Programme Specific Outcomes (PSOs), Programme Educational Objectives (PEOs) and Course Outcomes (COs) are mapped. IQAC ensures the lesson plan are in line with the curriculum and in many cases even beyond. As a part of Outcome Based Education (OBE), the question paper setting has been introduced based on Blooms Taxonomy Levels.

Identification of Advanced learners and Slow learners enabled the Institution to deliver the content as may be required by the individual group. While the Advanced learners are given additional inputs, the Slow learners are helped through additional coaching classes. In fact through Mentor-Mentee system lot of hand holding has been done to ensure everyone gets the quality inputs.

1. Content Beyond Syllabus

SRIET strongly believes that the students should be given maximum inputs with regard to the program he/she undergoes, learning ethical / industrial standards, awareness and practice the environmental protection etc... While ethical / industrial standards and environmental awareness are given to every single student of the Institution, providing additional inputs as content beyond syllabus synergizing with the curriculum is basically decided by faculty member. Normally, such content beyond syllabus are identified while preparing the lesson plan for the semester and send to IQAC through the HOD for their views and inputs. IQAC also facilitates in delivering the content by internal or external resources. It also monitors the effectiveness of such programs either through the assessment done by the faculty member and/ or student's feedback. This equips IQAC to suggest modifications, if any, to the faculty member in the subsequent academic years.

2. E-Resources

Before IQAC only certain open access e-journals and e-books were available to the students. To enlarge the scope, after the formation of IQAC, a separate Learning management system (LMS) has been initiated. The scope of the system has been developed continuously and year on year new E-learning materials and E-journals have been provided in that platform. As a very important development renowned E-resources like Springer Link, DELNET, Pro Quest etc... have been subscribed. This has provided access to students and

faculty members to the most advanced and latest E-learning resources. All the above have been put in INFLIBNET which is a common platform for accessing all the subscribed E-contents. Thus references, comparisons and citations becomes easier for the students and faculty members.

Faculty members are also encouraged to develop E –contents for the courses handled by them and share it in Google class room. The code for each Google class room will be given to the students for all the courses. This enables the students to access the content seamlessly. Faculty and students are also encouraged to open slide share account for enabling access to the power point presentations. All the faculty and students are motivated to register for NPTEL courses every semester for their self-academic development. The students attending NPTEL courses are guided by the Mentors and the students are guided to solve the weekly assignments provided by the NPTEL course coordinator.

SRIET has also provided the necessary links for the E-resources like Subscribed E-Journals, E-books, Databases and Open access E-Journals, E-books, Databases, E-Learning Resources etc... in the Website.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

Response: B. 3 of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Upload any additional information	View Document
Institutional data in prescribed format(Data template)	View Document
Paste web link of Annual reports of Institution	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

Gender equality refers to the equal responsibilities, rights, and opportunities for males and females in the society. By promoting gender equality in areas such as health care, education, jobs and role in administration with equal monetary benefits and decision-making, the overall economic sustainability will be improved. As a measure, different gender equity programs are conducted in our Institution in order to inculcate discipline and foster women empowerment.

Student Council: Student council is one of the most powerful tools of our Institute which safeguards the harmony and healthy relationship among the students, Faculty and the Management. It is the typical council which makes the students to get involved equally in the affairs and upliftment of the Institution. Both girls and boys students are equally participating in the association, cultural, music club and class representative positions and also members in class committees to address the grievances of the students.

Curricular and Co-curricular activities: Boys and girls students are equally participating in all academic activities such as Conferences, Seminars, Workshops, Project Demonstration, Quiz, Association Activities, Sports and also in extension Activities like NSS, UBA, RRC and YRC.

Women's Empowerment Cell:

“Define success on your own terms, achieve it by your own rules, and build a life you're proud to live.”

– Anne Sweeney (President of Walt Disney)

Women Empowerment Cell has been efficiently operated in SRIET to attain the empowerment of women that benefits girl students in all aspects. Women empowerment cell is committed to protect women's and girls' holistic wellness, emotional, physical and social well-being on campus. It generates alertness towards their stand by organising several activities like Seminars, Guest Lectures and other welfare programs, etc. This cell acts as an ideal platform for women to bring out their opinions and experiences that they have been facing in the society. Eventually, girl students are getting developed intellectually as well as socially responsible through continuous nurturing and several programmes are conducted for their well-being.

SRIET is taking privilege in celebrating international women's day every year. Through the celebration, achievements of women around the world and especially SRIET is high-lightened to inspire the younger minds. The creativity and confidence that have been exhibited are also made available to the students who would get ideas to practise it in their life. Our college heartens and inspires with speeches and guidance by successful women from various sectors for finding the right path.

The Honourable Chief Guest Mrs. Priya Govinda Raj, CEO and Founder of Samuthrika Academy, Trichy

was invited for the celebration of International Women's Day 2020 at SRIET Auditorium.

Safety & Security: To ensure safety of student community, especially for girl students and women faculty members inside the campus, Security guards are posted at prime points and Wardens ensuring the safety of girl students in the hostel. Separate timings for gym and well-furnished common room facilities are available for the girl students.

In addition, surveillance of the campus and hostel is done through CCTV cameras installed at all the junction points.

File Description	Document
Specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

Response: A. 4 or All of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

The Institution has taken a number of steps to ensure that the campus is environmentally friendly. The campus is lush with vegetation and immaculately maintained. A dedicated community of caretakers, sweepers, and housekeeping workers maintains the campus, lawns, and trees.

01. SOLID WASTE MANAGEMENT SYSTEM

Under Solid Waste Management System, wastes/ garbage are collected from the college and hostel is separated at the source and properly disposed of.

- Wet and dry wastes are collected by the housekeeping personnel on daily basis
- In common areas, bins are placed for the collection of waste materials
- SRIET promotes green initiatives like Plastic Free campus and Swachh Bharath to encourage environment friendly practices
- Efforts are taken to produce Biogas from Canteen and Hostel wastes
- Garden wastes are converted to manure by adding it to compost pit and decomposed manure are used for gardening in the campus
- Metals, Glass, Plastic and other Non-biodegradable wastes are handed over to authorized personnel from municipal corporation for disposal or recycling based on the nature of waste
- Paper and other stationery waste are sold to appropriate recycling companies or vendors.

Thus, the transportation of vast amount of waste to far-flung dumps has been reduced, thanks to recycling.

02. LIQUID MANAGEMENT SYSTEM

- The liquid waste at campus includes Canteen, Hostel, Laboratory, R. O. reject, Sewage and other effluent waste
- Reverse Osmosis (RO) waste water is diluted with raw water and used for irrigation.
- All other effluents are treated in Sewage treatment plant and treated waste water is used for gardening.

03. BIO MEDICAL WASTE

- Biomedical waste from laboratories and other sources are given to the external agencies for proper disposal
- To facilitate the proper disposal of Sanitary Napkins, Incinerator has been installed.

04. E-WASTE MANAGEMENT SYSTEM

With the aim of building an environmentally sustainable atmosphere on campus, the Institution has implemented a range of E-waste Management initiatives such as computers and their peripherals, are mostly upgraded and reused from prevent being thrown away.

- The E-wastes includes cartridges, outdated electronic and laboratory devices, etc. are collected and stored in the store room
- Old Monitors and CPUs are repaired or upgraded and reused
- UPS and Batteries are recharged, exchanged or buy-back by the suppliers
- E-wastes are disposed or sold out as scrap to external agencies every year accordingly

05. WASTE RECYCLING SYSTEM

- Sewage treatment plant runs with total design capacity of 75 KLD (kilolitres per day) to treat entire wastewater generated in the campus and to reuse the treated water for non-contact use like gardening. The treated effluent meets the standard for the following parameters like, pH, suspended solids, Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and grease

06. HAZARDOUS CHEMICAL AND RADIO WASTE MANAGEMENT SYSTEM

In Chemistry laboratory, Radioactive and Toxic substances are not used. For conducting lab experiments, less strength solutions are used. The waste generated from the chemistry laboratory are very minimum and possesses little risk. Such kind of waste from chemistry laboratory, if any, are neutralized and discarded after dilution.

File Description	Document
Geotagged photographs of the facilities	View Document
Any other relevant information	View Document
Relevant documents like agreements/MoUs with Government and other approved agencies	View Document

7.1.4 Water conservation facilities available in the Institution:

- 1. Rain water harvesting**
- 2. Borewell /Open well recharge**
- 3. Construction of tanks and bunds**
- 4. Waste water recycling**
- 5. Maintenance of water bodies and distribution system in the campus**

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

7.1.5 Green campus initiatives include:

- 1. Restricted entry of automobiles**
- 2. Use of Bicycles/ Battery powered vehicles**
- 3. Pedestrian Friendly pathways**
- 4. Ban on use of Plastic**
- 5. Landscaping with trees and plants**

Response: Any 4 or All of the above

File Description	Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

- 1.Green audit**
- 2.Energy audit**
- 3.Environment audit**
- 4.Clean and green campus recognitions / awards**
- 5.Beyond the campus environmental promotion activities**

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Certificates of the awards received	View Document
Any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

- 1.Built environment with ramps/lifts for easy access to classrooms.**
- 2.Divyangjan friendly washrooms**
- 3.Signage including tactile path, lights, display boards and signposts**
- 4.Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

Response: A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Geotagged photographs / videos of the facilities	View Document
Details of the Software procured for providing the assistance	View Document
Any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

CULTURAL ACTIVITIES

SRIET houses students from various straits of society, linguistic and demography. Hence students are having a chance of mingling with each other. Social and cultural activities celebrated in the Institution pave way to understand each other's religion, culture and life style. Cultural events and competitions organized in the Institution every year enhance student's personal skills and empathy in understanding the situations.

Our Institution encourages all other extra-curricular activities also that are both in line with the educational objectives of the Institution and meet the needs of the students.

REGIONAL CELEBRATIONS

Festivals are powerful in portraying our rich history, culture and traditions. Festival celebrations are supposed to be celebrated among loved ones to share special moments and feelings in our lives. In one way or another, every festival is cultural. National, religious, and seasonal festivals are among the various forms of cultural events.

- **Pongal Celebration:** Pongal is a popular harvest festival in South India, especially in Tamil Nadu. Pongal, normally, falls on 14th of January every year. In our college, Pongal is celebrated in the traditional manner by making 'Pongal' in a mud pot with all religious qualities by students and faculties. Competitions were also held to boost the spirit of the Pongal festival.
- **Onam Celebration:** Onam is celebrated in the month of September to honour the kind-hearted and much-beloved King Mahabali. As part of celebration, in SRIET, an attractive floral decoration (pookalam) is put up in the reception area. The main attractions of the programme are skits, speech, group songs, and solo songs by the students and Chendamelam by our boy's student and Thiruvathira by our Girl students.

LINGUISTIC ACTIVITY

- **Tamil Mandram:** SRIET encourages steps for promoting Tamil amongst the students by

organising various programs. Tamil Mandram in SRIET plays a very important role in conducting Tamil events in cultural festivals and also organizes book fairs.

COMMUNAL & SOCIO ECONOMIC ACTIVITIES

- **UBA Activities:** Unnat Bharath Abhiyan (UBA) of SRIET is providing excellent service to the community and neighbourhood. During weekends or after college hours also, students actively participate in different programmes in the villages, school campuses, etc...
- **NSS** allows students to participate in intercollegiate, interuniversity and interstate camps, as well as share ideas with students from other schools, universities, and states. Our institution has a separate team of volunteer to perform NSS Activities and actively organizes various awareness programmes and other initiatives.
- **YRC & RRC:** Through these Cell, volunteers organize programmes such as Medical Camps, Blood Donation Camp, etc...

CLUB ACTIVITIES:

Student activities are student-focused extra-curricular clubs and programs offered at a college. Student activities organized by various clubs are generally allows students to become more involved on campus. Often, such activities provide opportunities for students to develop leadership, volunteerism, social responsibility and employment exposure.

File Description	Document
Any other relevant information.	View Document
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

SRIET strongly believes in making the students as a responsible citizen. In that context, the faculty members closely work with the students individually and collectively inculcating the value systems, the rights they have in the Institution and the society, the duties and responsibilities they need to deliver back to the society they are from. While ethics is included in curriculum, the following awareness programmes and campaigns are conducted for the benefit of students.

AWARENESS PROGRAMMES

- **Environmental Consciousness:** Environmental cleanliness is important for a person's stronger body and mind, and it is everyone's duty and obligation to keep the atmosphere as clean as possible. Students are learning through the Institutional wide practices of green campus initiatives such as

vehicle entry restrictions, the use of battery-powered Motor Vehicle, pedestrian-friendly pathways and tree & plant landscaping.

As a part of Environmental Cleanliness, **Swachh Bharat Abhiyan and Unnat Bharath Abhiyan** were initiated in our Institution which is country wide Campaign initiated by Government of India. Through Unnat Bharath Campaign, our Institution has adopted 5 nearby Villages to initiate the Cleanliness programme. Students' participation in this made them aware of their responsibilities.

AWARENESS CAMPAIGN

Student and Employee of SRIET are initiated to give equal importance on educating the general public in the community by holding and earning the awareness programme every year on the following:

- **Leprosy:** Our students in line with government's initiative on eradication of leprosy have organised awareness programme in the nearby villages through UBA.
- **Tree Plantation:** Tree plantation programme was conducted by SRIET along with NSS Cell. An extensive Plantation Programme was launched and on the occasion, the dignitaries planted tree saplings in our college campus. In this campaign, around 1000 saplings were planted by NSS volunteers as well as staffs, students of all departments in different parts of our campus and surrounding areas. Volunteers were highly enthusiastic to make it a big success and planted saplings, fenced them and watered.
- **Blood Donation Camp:** The institution organised the blood Camp, in association with Shanthi Gears, Coimbatore, which was very remarkable one, under the Members of YRC Club. Blood was also donated by the Students and Faculty Members.
- **Contribution to Flood:** The NSS volunteer and YRC Society of our College jointly worked for contribution towards the rehabilitation of Flood Victims at Kerala State and Cuddalore District.
- **The Right to Vote:** The right to vote is a fundamental human right that gives people the ability to influence government decision-making and protect human rights. Several awareness programs are conducted in SRIET to educate knowledge about the importance of individual to cast their Vote.

Plastic Free Campus: As advised by Tamil Nadu Government, SRIET has banned the single-use plastics in the campus. Students have been enlightened the hazardous nature of plastics and the necessity of avoiding it to protect their health and the Mother Nature.

File Description	Document
Any other relevant information	View Document
Details of activities that inculcate values; necessary to render students in to responsible citizens	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. The Code of Conduct is displayed on the website

2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

Response: A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims.	View Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

INDEPENDENCE DAY & REPUBLIC DAY

Every year in SRIET, Independence day & Republic day are celebrated in a grand manner with the raising of the National Flag and addressed by the chief guest. Students and faculty members participated in large numbers.

TEACHERS DAY CELEBRATIONS

Teachers' Day is celebrated on September 5th, the birthday of Dr Sarvapalli Radhakrishnan, a well-known teacher, philosopher, and statesman.

“Teachers should be the best minds in the country,”

Dr. S.Radhakrishnan said.

SRIET students celebrates Teachers' Day as a token of appreciation and thanks giving to the Teachers who are shaping them as better technocrats. Many programs and games are organized by the students for faculty's members to make the day as a remarkable one.

ENGINEERS DAY: Every year, September 15th is celebrated as National Engineer's Day to appreciate and remember the contributions of Sir Mokshagundam Visvesvaraya. In our Institution, Students organize various programme to exhibit their talents.

NATIONAL YOUTH DAY: National Youth Day, also known as Yuva Diwas, is celebrated on 12th January of every year marking the birthday of Swami Vivekananda. It is celebrated to motivate the youths and spreading and sharing the ideas of the Swami Vivekananda.

INTERNATIONAL YOGA DAY: The International Day of Yoga, has been observed on the 21st June of every year. On this day the value of yoga is imparted to the students as well as to our Faculty members of SRIET. By practicing yoga continuously students can achieve healthy body and mind. Separate yoga centre has been created within the campus and made available to all students and faculty members. Many guest faculties came and taught about yoga, asana and meditation to the students and faculty members regularly.

GURU WITH SELFIE DAY: The Union Minister of Human Resource Development (HRD) has launched a campaign, Guru with Selfie day-July 15th to Honour Guru Purnima. People can post Selfies with everyone they consider to be their guru and express their appreciation and reverence for them, reviving India's guru-shishya (teacher-disciple) culture. SRIET also encouraged the students and teachers to take a selfie with a Guru and post it on social media.

INNOVATION DAY: SRIET celebrated “Innovation Day” on 15th October 2019 to mark the birth anniversary of Dr A.P.J Abdul Kalam by featuring student projects from all five departments. The day provided greater opportunity to students in exploring and expressing their ideas and creativity. Most of the students from all branches participated in the events with lot of enthusiasm and made it as a successful event.

INTERNATIONAL WOMENS DAY: To enlighten the girl students on their rights and empowerment Womens day is celebrated extensively in the campus every year. The day marks with full day celebration and competitions for the students to exhibit their talents. Known speakers on women welfare addresses the gathering and motivating the younger minds to set personal goals.

File Description	Document
Geotagged photographs of some of the events	View Document
Any other relevant information	View Document
Annual report of the celebrations and commemorative events for the last five years	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:

INSTITUTIONAL BEST PRACTICE – 01

TITLE OF THE PRACTICE

Product Development and Patent Registration

OBJECTIVES OF THE PRACTICE

- To enable students to sharpen their knowledge & skills and to become entrepreneurs or research scholars.
- To provide proper training to students in the areas of Literature Survey, Design, Material Selection, Cost Estimation, Purchase of components and Patent registration process.
- To provide better facilities to students for Innovative Product Development.
- To enhance the skills of students through our training as Industry ready engineers.
- To give hands-on training to students which helps to increase the confidence level, work together with a team, creative knowledge and providing opportunity to apply their theoretical knowledge into real time practices.

THE CONTEXT

SRIET gives trainings to the students from second year onwards for innovative product development. New Product Development is a very important activity to any Industry as it means progress. They should also know various parameters involved in developing a product and have innovative ideas that could result in ease of operation and cost reduction. Visualizing future needs and affordability of a product decides success of the product.

Similarly, Product Development in the Institution must remain conscious of how they present and communicate their educational service for improving employability skills of students and differentiate themselves from other Institutions in a unique way. Based on these factors, students are trained to enhance the skills through multiple project selection, product development and patent registration. Students are also made aware of literature survey, problem identification, design, material selection, cost estimation and purchase of components making it as a product.

THE PRACTICE

1. Project Selection: Project selection is the most important activity to begin with. The faculty members and students joined together to form as a team to discuss and identify projects that can be undertaken at the Institution. The strength of each member is mapped so that a convergent of multi-skilled/ talented team members is available for the project. The selection of projects need not be based on the size or monetary involvement but based on the criticality and contribution that would bring in to the Institution in terms of a patent or publication of valuable research material. The inputs for identifying a project could have been even from an industry interaction or socio-economical necessities. When a challenge is thrown, normally, the students comes out with newer ideas / suggestions that forms part of taking up a project resulting in new product development.

One such idea is to develop a workable vehicle model and our students wished to develop an open wheel car - Go-Kart vehicle.

2. Product Development: The design of products is always be an act of craftsmanship or resultant of a skill set. It is characterized by the ability to repeatedly employ problem solving, creativity and decision-making in an efficient manner to reach adequate product definition. Employing creativity or systematic approach in developing the product strongly depends on the type of product, which may be routine or non-routine design of it. Going by the rule of “continuous improvement”, students are encouraged to adapt innovative ideas rather than following a structured pattern to the extent possible.

In this phase, the students gain knowledge to enhance their skills in the following areas,

- Geometric dimensioning and tolerance (GD&T)
- Design for manufacturing (DFM)
- Design for assembly (DFA)
- CNC programming & Operations
- Design of experiments (DOE)
- Value engineering (VE)
- Failure mode and effects analysis (FMEA)
- Finite element analysis (FEA)
- Solid modelling
- Simulation techniques
- Computer aided design (CAD)
- Computer aided engineering (CAE)
- Quality function deployment (QFD)
- Reliability engineering plans

3. Patent Registration: “Invention” of a new product or process involves inventive steps and capable of using it in industrial application. It is a statutory right of the inventor to apply for the patent to the concerned authority on his/her invention which may be either made of through a new process or material or change in design.

EVIDENCE OF SUCCESS

This practice enables our students to become industry ready engineers as they learn and enhance various skills including project selection, knowledge on existing products available in the market, modifications to be done, design parameters selection, material selection, machining various components into required size and geometry, cost estimation, purchasing of required components and assembling of the components.

In our Institution, second and pre final year Mechanical Engineering students (30 students) are actively involved in the designing and fabricating of Go – Kart vehicle. Our mechanical engineering students participated three levels in the Bharath Formula Karting (BFKCT) powered by CADD Technologies in the academic year 2018-19.

Level – 1 which includes the following Design aspects of the **Go – Kart vehicle**

- Vehicle Design
- Design Report
- Innovation Report
- Cost Report
- Design Validation Plan
- Gantt chart

Level – 2 which includes the following Manufacturing aspects of the Go – Kart vehicle,

- Vehicle Analysis
- Manufacturing Level
- Innovation Report
- Technical Inspection
- Safety Equipment

- Safety Precautions
- Driver Exit Time

Level – 3 which includes the following Dynamic test aspects of the Go – Kart vehicle,

- Brake Test
- Acceleration Test
- Skid Pad Test
- Skid Pad Layout

Learning of all the above has helped our students in developing the Go-Kart vehicle at the Institution.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED

The students are lacking in the area of process of development from obtained ideas and convert the product in a patent form. Here, our Institution is providing many opportunities to develop the process along with hands-on training in the required areas of designing product, optimal material selection, machining of components using advanced CNC machines, quality assurance, assembling and testing of components.

Proper skill development trainings are given to overcome these issues faced by students through well-equipped laboratories of our Institution and advanced trainings are provided from Sri Ranganathar Group of Industries. Some of the complex areas in design and fabrication, students might get additional guidance from external resource person.

Moreover, the following resources are essential to obtain better outcome.

- Design Software
- Modelling Software
- Analysing Software
- Lathe and Special Machines
- Well Equipped Workshop
- CAM Software
- Advanced CNC Machines
- Material Testing Facilities

INSTITUTIONAL BEST PRACTICE – 02

TITLE OF THE PRACTICE

Mentor – Mentee System

OBJECTIVES OF THE PRACTICE

- To create a positive teacher-student connectivity
- Assessing the capabilities, skill and mind-set of students
- Guiding students on academic and personal difficulties
- Through constant interaction, instilling human values and ethics
- Encouraging them to select a professional path based on their passion

- Motivating the students to participate in co-curricular and extra-curricular activities
- Assisting the students in the academic process depending on their learning levels
- Helping him/her in solving personal grievances, if any
- Counselling the students in case of need

THE CONTEXT

Mentor – Mentee system is basically a one to one interaction. Normally, a faculty member being a Mentor guides 15 to 20 students and would continue as a Mentor throughout the programme. All the academic, co-curricular, extra-curricular and personal information about the Mentee are recorded and maintained in Student record by respective mentor. Mentor keeps a closer follow-up on the behavioural pattern of students across all four years and take necessary steps to guide or instil confidence in the minds of students that someone is available to him / her in case of a need and they can look up to the Mentor for any assistance.

Mentors provide guidance on individual's personality, personal grooming, academics, career, sports and other extension activities. Mentors also play a major role in developing student as an entrepreneur or a research personality. In nutshell, Mentor really facilitates Mentee to become a better human.

THE PRACTICE

The following responsibilities will be assigned to the Mentor:

- Each faculty members are assigned to batch of 15-20 students
- Mentoring sessions are conducted regularly and followed throughout the programme
- Mentor – Mentee sessions are confidential and held only in private
- In each of the department, a separate room is available for counselling the student
- The Mentee is encouraged to discuss anything whether it is of personal, academic, grievance, etc... with a Mentor
- Mentee can approach the Mentor at any point of time for guidance or help and need not have to wait for regular sessions
- Mentor gives input to the Mentee in selecting his/ her career
- Mentor also guides him/ her in maintaining interpersonal relationship with the family members, faculty members, staff, peer group and society
- The Mentor identifies slow learners in each class and reports them to other faculty members teaching that class, who then make further efforts to upgrade and enhance them
- The Mentor also monitors the mentee's personal growth, including extracurricular activities, discipline, and career-related concerns. The Mentor also encourages the students to participate in extension activities organized by NSS, YRC, RRC, UBA etc.
- The Mentor keeps posting the development of wards to the parents, but exclusive of any confidential disclosure by the Mentee to his/ her mentor, on a routine basis and they may be included in the process, in case of need, with prior intimation to students
- Special care is given to students with more arrears and extra coaching classes are arranged in the extended evening hours and Saturdays
- Bright students are also mentored in their career progression
- Prior to placements each of the Mentor individually talks to the Mentees to boost up the morale of students, so that they can face the interviews confidently
- Meritorious students are motivated to go for higher studies

EVIDENCE OF SUCCESS

- Direct interaction with students improved their confidence and gave encouragement to come out of their fears and doubts, which created an understanding and bound relationship. This is evidenced through lesser grievances raised by students.
- Due to proper channelized communication by faculty with students, they can able to achieve fruitful result in Academics.
- Student's attendance has been tremendously improved which significantly reduced long absentees and drop outs.
- Mentoring system encouraged the students to secure more marks in Academics for the effective placement.
- With the effective functioning of Mentoring system, the percentage of student placement was increased.
- Enormous growth in campus recruitment in top notch companies reflects the success of Mentoring system.

Few examples:

- The department faculties Motivated one of the students to learn Japanese language levels from Third Year Onwards. He has successfully completed the Levels (N4&N5) in the academic year 2017-18 & 2018-19. He also got placement in FUJITSU.
- One of the students from III year Mechanical Engineering has actively participated in academic and Extra Curricular Activities under the guidance of department faculties in the academic year 2019-20, He was Awarded ISTE CHAPTER Best Student award from ISTE TAMILNADU SECTION.

PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED

Common problems encountered in the mentoring system are:

- Ice-breaking is a challenge. Few have taken longer time to get into conversation
- Hesitation about lingual skills affected the communication
- Level of awareness on current trends resulted in delayed decisions on career
- Most of the students came from rural background and hesitant to open up
- Pressure from peer group and derived ideologies
- Family and socio-economic status have created certain complexity

The Resource Requirement was identified from the above mentor system and the corrective steps are taken to resolve the problems.

- Our Communication skills laboratory to improve the LSRW (Listening, Speaking, Reading and Writing) skills and also facilitates the students to improve their language proficiency.
- Alumni were asked to interact with the students and explained the benefits that they derived out of Mentor- Mentee system
- The services of qualified Student Counsellor have been used to improve the confident levels.

File Description	Document
Any other relevant information	View Document
Best practices in the Institutional web site	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:

BRIDGING THE GAP BETWEEN CURRICULUM AND INDUSTRIES

SRIET aims to make the students as industry ready technocrats through redefining the Outcome Based Education. SRIET is assigning importance to requirement of its stake holder, students, parents, Industry, society and Alumni. The requirement of stakeholder is an important aspect in designing any course outcome. Input from industry is playing key role in the area of curriculum design, in-plant training, internship, one credit course and faculty training. This ultimately leads to better positioning of students in the Industry and development of the Institution by undertaking projects and consultancy work.

As SRIET is a fully Industry Integrated Institute, our students are learning theories in the Class room, experimenting it in Lab and practicing it in our Industry. Normally the students will undergo trainings in an Industry for about a week to a month on a general context, whereas students of SRIET practices the learning for longer duration in the Industry thus have a wide spread application knowledge and become capable of handling any department / function. Learning in real working atmosphere exposes students to various challenges including problem solving, discipline, crisis handling, work force management & team spirit therefore making them fully Industry ready.

SRI Conglomerate of Industries:

SRIET is an Industry Integrated Institute offering quality Engineering Education to cater to the needs of Industry. It aims at equipping our students with latest knowledge & practical training on technology much essential in operations of various industrial equipment and processes. SRIET is supported by SRI Conglomerate of Industries.

SRI Unit I: Manufactures high quality machined Steel Castings at Edyarpalayam, Coimbatore

SRI Valves: Manufactures wide range of Industrial Valves at Arasur, Coimbatore.

SRI Unit II: Manufactures high quality Investment Castings (Valve Castings, Pump Castings & Castings for Transport segment) at Kariyampalayam, Coimbatore.

All the above units of SRI industries are fully integrated plants as each of the plant has a foundry and associated machine shop. Foundries being a rich resource for Mechanical Engineers as they have Pattern shop, Induction Furnaces, Mould mixtures, Heat treatment, Fettling process which is inclusive of cutting, welding, gouging, etc... The associated machine shop has larger CNC, HMC and VMC machines give them

an idea on tools and dies. The Electrical Engineers and Electronics & Communication Engineers can look at the maintenance part of the equipments, PLCs and FANUC. Having larger buildings, building for radiographic centers and pollution control systems helps the CIVIL engineers to learn practically the techniques they have studied. Being large scale Industries SRI group has many computers spreaded across various locations connected through networking and using many ERP packages based on ORACLE, SAP & TALLY wherein the Computer Science and Engineering students can learn through real time experience.

Training Modules:

SRIET developed customized training modules incorporating the views of Industrial Experts to bridge the gap between Curriculum and Industries. Through institute industry collaborative training programme, the SRIET provides opportunity for the students to get industrial exposure during the tenure in institute which ensures creation of industry ready engineers. This training programme includes providing hands-on experience on most of the modules of core curriculum courses with comprehensive support from SRI Conglomerate of Industries.

The training modules are formulated by following steps below:

- Stake holder analysis (Industries).
- Formulate the graduate attributes (This is iterative in nature)
- Prepare the program outcome and specific objective.
- Frame the curriculum and mapping with attributes.
- Align with the subjects in every semester.

SRI Industries helps the faculty to connect the theoretical part of the curriculum with the practices in the Industries. Many times it facilitate the faculty members to learn the advanced developments that are practiced in Industries including learning about the modern age machineries. The knowledge gained from Industry is passed on to the students as well. The inputs from experts of the Industry is very helpful in deciding the additional inputs to be given.

All the year students are attending respective training programs in a proper schedule with well-designed contents. The training programs ensure all the students shall get the exposure in different domains including Manufacturing Process, Automation, Industrial Internet of Things, Sensors, Solar Panels, Five-Axial CNC Operations, Automated Stores and Material Handling, Non-Destructive Radiographic Inspection, Automated Casting Sand Recycling, Sustainable Manufacturing, etc.

For example, Mechanical Engineering students study the following subjects and laboratories in Instt corresponding hands-on exposure in Industries.

SL. NO.	COURSES	LABORATORIES	INDUSTRIAL TRAINING	HA
1	Manufacturing Technology			
	1.1	Sand casting		Sand casting process
	1.2	Investment Casting		Investment Casting process
	1.3	Castings Tests		Castings Tests process
	1.4	Welding Process	Welding	Welding Process processes

	1.5	Metal Cutting	Cutting Machine	Metal Cutting processes	
	1.6	Turning Process	Turning Machine	Turning Process processes	
	1.7	Shaping Process	Shaping Machine	Shaping Process processes	
	1.8	Milling Process	Milling Machine	Milling Process processes	
	1.9	Grinding Process	Grinding Machine	Grinding Process processes	
	1.10	CNC Machining	CNC Part programming	CNC Machining process	
	Engineering Metallurgy				
2.	2.1	Heat treatment process		Heat treatment process	
	2.2	Normalizing, Hardening Tempering		Normalizing, Hardening Tempering Process	
	Computer Aided Design and Manufacturing				
3.	3.1	CNC Machining	CNC Part programming	CNC Machining and programming	
				CNC Maintenance	
	Hydraulics and Pneumatics				
4.	4.1	Hydraulic Actuators		Hydraulic Actuators	
	4.2	Control Components		Control Components	
	4.3	Pneumatics Systems		Pneumatics Systems	
	4.4	Electro-Pneumatics Systems		Electro- Pneumatics System	
	Fluid Mechanics and Machinery				
5.	5.1	Centrifugal Pumps	Centrifugal Pumps	Centrifugal Pumps	
	5.2	Rotary Pumps	Rotary Pumps	Rotary Pumps	
	5.3	Reciprocating Pumps	Reciprocating Pumps	Reciprocating Pumps	

At the end of all the trainings, the students are capable to work in any industry with adequate knowledge and skills. The SRIET provides a platform for students to get the industrial exposure during their undergraduate program itself. Companies working in the related field will prefer our institutions for Campus Placement. The industries can recruit our students and directly place them on job.

File Description	Document
Any other relevant information	View Document
Appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

- SRIET is an Industry Integrated Institute - backed by Sri Ranganathar Group of Industries.
- Utmost priority is given to teaching–learning process. RBT (Revised Bloom’s Taxonomy) based lecture plan is being followed for students’ betterment.
- For gaining real time exposure, students are given hands-on training in our industries by the experts.
- As SRIET’s motto is the students’ over-all growth and development, our college provides opportunity for students to take part in various club activities and gain variety of skills.
- Slow learners are given remedial classes to enhance performance in respective subjects. Above average students are provided with additional trainings beyond the syllabus.
- Importance to co-curricular and extra-curricular activities through Cultural and Sports committees.
- Awareness and motivational programs and special training for competitive exams, like GATE, GMAT, etc.
- Unconventional instructional tools are used to deliver syllabus content in class room as almost 20 classes are enabled with LCD projector.

Concluding Remarks :

- Sri Ranganathar Institute of Engineering and Technology was established in the year 2011 with five under graduate Programs by Sri Ranganathar Trust after identifying the need of talented young engineers in Industries. Primary objective for the establishment of SRIET is to bridge the gap between Institute and Industry through adequate Industrial exposure, harmonious teaching and experiential learning.
- SRIET believes in promoting a culture of team work with a foundation of ethics and moral values in the campus. Institution is always interested in students’ and faculty members development.
- With all available resources and a very good support from Management, college is desperately on the right track to achieve and gain wider recognition.
- Students are trained and cultivated to become responsible citizens of the nation.
- With all the positives and available resources, Sri Ranganathar Institute of Engineering and Technology will definitely attain its milestone in NAAC in near future.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p>Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years</p> <ol style="list-style-type: none"> 1. Academic council/BoS of Affiliating university 2. Setting of question papers for UG/PG programs 3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses 4. Assessment /evaluation process of the affiliating University <p>Answer before DVV Verification : C. Any 2 of the above Answer After DVV Verification: C. Any 2 of the above</p>																				
1.2.1	<p>Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented</p> <p>1.2.1.1. Number of Programmes in which CBCS/ Elective course system implemented. Answer before DVV Verification : 5 Answer after DVV Verification: 5</p>																				
1.2.2	<p>Number of Add on /Certificate programs offered during the last five years</p> <p>1.2.2.1. How many Add on /Certificate programs are offered within the last 5 years. Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>14</td> <td>12</td> <td>10</td> <td>8</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>14</td> <td>12</td> <td>10</td> <td>8</td> </tr> </tbody> </table>	2019-20	2018-19	2017-18	2016-17	2015-16	14	14	12	10	8	2019-20	2018-19	2017-18	2016-17	2015-16	14	14	12	10	8
2019-20	2018-19	2017-18	2016-17	2015-16																	
14	14	12	10	8																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
14	14	12	10	8																	
1.2.3	<p>Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years</p> <p>1.2.3.1. Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>331</td> <td>300</td> <td>255</td> <td>227</td> <td>175</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p>	2019-20	2018-19	2017-18	2016-17	2015-16	331	300	255	227	175										
2019-20	2018-19	2017-18	2016-17	2015-16																	
331	300	255	227	175																	

2019-20	2018-19	2017-18	2016-17	2015-16
331	300	255	227	175

1.3.2 **Average percentage of courses that include experiential learning through project work/field work/internship during last five years**

1.3.2.1. **Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
76	86	72	45	50

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
75	88	71	45	49

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

1.3.3.1. **Number of students undertaking project work/field work / internships**

Answer before DVV Verification : 468

Answer after DVV Verification: 468

1.4.1 ***Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders***

1) Students

2) Teachers

3) Employers

4) Alumni

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

1.4.2 **Feedback process of the Institution may be classified as follows:**

Options:

1. **Feedback collected, analysed and action taken and feedback available on website**
2. **Feedback collected, analysed and action has been taken**
3. **Feedback collected and analysed**
4. **Feedback collected**

5. Feedback not collected

Answer before DVV Verification : A. Feedback collected, analysed and action taken and feedback available on website

Answer After DVV Verification: A. Feedback collected, analysed and action taken and feedback available on website

2.1.1 Average Enrolment percentage (Average of last five years)**2.1.1.1. Number of students admitted year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
153	210	237	161	245

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
153	210	237	161	245

2.1.1.2. Number of sanctioned seats year wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
300	300	300	300	300

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
300	300	300	300	300

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)**2.1.2.1. Number of actual students admitted from the reserved categories year wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
124	113	137	108	170

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
124	113	137	108	170

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed

academic year)

2.3.3.1. Number of mentors

Answer before DVV Verification : 53

Answer after DVV Verification: 53

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

2.4.2.1. Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
9	6	6	5	11

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
9	6	6	5	11

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

2.4.3.1. Total experience of full-time teachers

Answer before DVV Verification : 214.58

Answer after DVV Verification: 214.58

2.6.3 Average pass percentage of Students during last five years

2.6.3.1. Total number of final year students who passed the university examination year-wise during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
143	117	93	44	87

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
143	117	93	44	87

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
160	239	144	91	111

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
160	239	144	91	111

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)

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)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
0.105	0.30	0	0	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
0.105	0.30	0	0	0

3.1.2 Percentage of departments having Research projects funded by government and non government agencies during the last five years

3.1.2.1. Number of departments having Research projects funded by government and non-government agencies during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
2	4	0	0	0

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
2	4	0	0	0

3.1.2.2. Number of departments offering academic programmes

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
5	5	5	5	5

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16

5	5	5	5	5
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3.1.3 Number of Seminars/conferences/workshops conducted by the institution during the last five years

3.1.3.1. Total number of Seminars/conferences/workshops conducted by the institution year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
49	33	8	11	12

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
49	33	8	11	12

3.2.1 Number of papers published per teacher in the Journals notified on UGC website during the last five years

3.2.1.1. Number of research papers in the Journals notified on UGC website during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
24	18	6	13	13

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
26	16	6	12	14

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

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
8	20	4	0	2

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
8	20	4	0	2

3.3.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

3.3.2.1. Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
2	1	2	1	5

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
2	1	2	1	5

3.3.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

3.3.3.1. Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
13	11	12	11	7

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
13	11	12	11	7

3.3.4 Average percentage of students participating in extension activities at 3.3.3. above during last five years

3.3.4.1. Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
489	473	581	541	405

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
489	473	581	541	405

489	473	581	541	405
-----	-----	-----	-----	-----

3.4.1 **The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-job training, research etc during the last five years**

3.4.1.1. **Number of linkages for faculty exchange, student exchange, internship, field trip, on-job training, research etc year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
42	56	87	11	8

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
42	56	87	11	8

3.4.2 **Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the last five years**

3.4.2.1. **Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
13	8	10	2	7

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
13	8	10	2	7

4.1.3 **Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)**

4.1.3.1. **Number of classrooms and seminar halls with ICT facilities**

Answer before DVV Verification : 23

Answer after DVV Verification: 23

4.1.4 **Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)**

4.1.4.1. **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16

8.22	14.2	49.49	52.599	40.96
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Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
8.22	14.2	49.49	52.599	40.96

4.2.2 **The institution has subscription for the following e-resources**

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases
6. Remote access to e-resources

Answer before DVV Verification : A. Any 4 or more of the above

Answer After DVV Verification: A. Any 4 or more of the above

4.2.3 **Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)**

4.2.3.1. **Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
3.39	3.29	3.44	2.65	3.11

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
3.39	3.29	3.44	2.65	3.11

4.2.4 **Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year**

4.2.4.1. **Number of teachers and students using library per day over last one year**

Answer before DVV Verification : 214

Answer after DVV Verification: 214

4.3.3 **Bandwidth of internet connection in the Institution**

Answer before DVV Verification : A. 750 MBPS

Answer After DVV Verification: A. 750 MBPS

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

Lakhs)

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
16.45	25.90	15.92	14.72	26.65

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
16.45	25.90	15.92	14.72	26.65

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

5.1.1.1. Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
647	783	684	533	427

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
647	783	684	533	427

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

5.1.2.1. Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
194	236	271	229	101

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
194	236	271	229	101

194	236	271	229	101
-----	-----	-----	-----	-----

5.1.3 **Capacity building and skills enhancement initiatives taken by the institution include the following**

1. **Soft skills**
2. **Language and communication skills**
3. **Life skills (Yoga, physical fitness, health and hygiene)**
4. **ICT/computing skills**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

5.1.4 **Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years**

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
522	699	470	543	420

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
522	699	470	543	420

5.1.5 **The Institution has a transparent mechanism for timely 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**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

5.2.1 **Average percentage of placement of outgoing students during the last five years**

5.2.1.1. **Number of outgoing students placed year - wise during the last five years.**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
81	118	52	51	43

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
81	118	52	51	43

5.2.2 **Average percentage of students progressing to higher education during the last five years**

5.2.2.1. **Number of outgoing student progressing to higher education.**

Answer before DVV Verification : 9

Answer after DVV Verification: 9

5.2.3 **Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)**

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
4	2	1	1	1

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
4	2	1	1	1

5.2.3.2. **Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
5	2	1	1	1

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
5	2	1	1	1

5.3.1 **Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

5.3.1.1. **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) year-wise during the last five years.

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
4	7	2	4	3

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
4	7	2	4	3

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

5.3.3.1. Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
25	24	20	18	16

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
25	24	20	18	16

6.2.3 Implementation of e-governance in areas of operation

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

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

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

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
49	32	28	17	26

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
49	32	28	17	26

6.3.3 **Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years**

6.3.3.1. **Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
12	9	11	9	11

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
12	9	11	9	11

6.3.4 **Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).**

6.3.4.1. **Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
46	37	21	17	11

Answer After DVV Verification :

2019-20	2018-19	2017-18	2016-17	2015-16
46	37	21	17	11

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

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
2. **Collaborative quality initiatives with other institution(s)**
3. **Participation in NIRF**
4. **any other quality audit recognized by state, national or international agencies (ISO**

	<p>Certification, NBA)</p> <p>Answer before DVV Verification : B. 3 of the above Answer After DVV Verification: B. 3 of the above</p>
7.1.2	<p>The Institution has facilities for alternate sources of energy and energy conservation measures</p> <ol style="list-style-type: none"> 1. Solar energy 2. Biogas plant 3. Wheeling to the Grid 4. Sensor-based energy conservation 5. Use of LED bulbs/ power efficient equipment <p>Answer before DVV Verification : A. 4 or All of the above Answer After DVV Verification: A. 4 or All of the above</p>
7.1.4	<p>Water conservation facilities available in the Institution:</p> <ol style="list-style-type: none"> 1. Rain water harvesting 2. Borewell /Open well recharge 3. Construction of tanks and bunds 4. Waste water recycling 5. Maintenance of water bodies and distribution system in the campus <p>Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: A. Any 4 or all of the above</p>
7.1.5	<p>Green campus initiatives include:</p> <ol style="list-style-type: none"> 1. Restricted entry of automobiles 2. Use of Bicycles/ Battery powered vehicles 3. Pedestrian Friendly pathways 4. Ban on use of Plastic 5. landscaping with trees and plants <p>Answer before DVV Verification : A. Any 4 or All of the above Answer After DVV Verification: A. Any 4 or All of the above</p>
7.1.6	<p>Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions / awards 5. Beyond the campus environmental promotion activities <p>Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: A. Any 4 or all of the above</p>
7.1.7	<p>The Institution has disabled-friendly, barrier free environment</p>

1. **Built environment with ramps/lifts for easy access to classrooms.**
2. **Divyangjan friendly washrooms**
3. **Signage including tactile path, lights, display boards and signposts**
4. **Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment**
5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

Answer before DVV Verification : A. Any 4 or all of the above

Answer After DVV Verification: A. Any 4 or all of the above

7.1.10 **The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.**

1. **The Code of Conduct is displayed on the website**
2. **There is a committee to monitor adherence to the Code of Conduct**
3. **Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
4. **Annual awareness programmes on Code of Conduct are organized**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

2. Extended Profile Deviations

ID	Extended Questions																				
1.1	<p>Number of courses offered by the Institution across all programs during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>181</td> <td>180</td> <td>174</td> <td>149</td> <td>128</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>181</td> <td>180</td> <td>174</td> <td>149</td> <td>128</td> </tr> </tbody> </table>	2019-20	2018-19	2017-18	2016-17	2015-16	181	180	174	149	128	2019-20	2018-19	2017-18	2016-17	2015-16	181	180	174	149	128
2019-20	2018-19	2017-18	2016-17	2015-16																	
181	180	174	149	128																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
181	180	174	149	128																	
1.2	<p>Number of programs offered year-wise for last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> </tr> </tbody> </table>	2019-20	2018-19	2017-18	2016-17	2015-16	5	5	5	5	5	2019-20	2018-19	2017-18	2016-17	2015-16	5	5	5	5	5
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5	5	5	5	5																	
2019-20	2018-19	2017-18	2016-17	2015-16																	
5	5	5	5	5																	
2.1	Number of students year-wise during last five years																				

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
692	828	783	630	572

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
692	828	783	630	572

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

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
207	207	207	207	207

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
207	207	207	207	207

2.3 **Number of outgoing / final year students year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
160	239	144	91	111

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
160	239	144	91	111

3.1 **Number of full time teachers year-wise during the last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
66	62	81	75	65

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
66	62	81	75	65

3.2 **Number of sanctioned posts year-wise during last five years**

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
66	62	80	75	65

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
66	62	81	75	65

4.1 Total number of classrooms and seminar halls

Answer before DVV Verification : 23

Answer after DVV Verification : 23

4.2 Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

Answer before DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
139.77	192.94	90.47	177.94	217.99

Answer After DVV Verification:

2019-20	2018-19	2017-18	2016-17	2015-16
139.77	192.94	90.47	177.94	217.99

4.3 Number of Computers

Answer before DVV Verification : 400

Answer after DVV Verification : 400

4.4 Total number of computers in the campus for academic purpose

Answer before DVV Verification : 360

Answer after DVV Verification : 360