



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

**SOLAMALAI COLLEGE OF ENGINEERING**

**S.V RAJA NAGAR , VEERAPANJAN , SIVAGANGAI ROAD  
625020**

**[www.solamalaice.ac.in](http://www.solamalaice.ac.in)**

**Submitted To**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

Solamalai College of Engineering (Formerly Raja College of Engineering and Technology) was established in the year 1995. The college was acquired by Solamalai Group in the year 2015. Solamalai, a popular brand in Madurai has evolved since 1962 as a single lorry operator and now has diversified business operations throughout Tamilnadu marking foot steps in FMCG distribution, C&F services, Goods Truck, Passesnger transportation, Infrastructure, Cinema Exhibition with an able team of more than 1400 employees.

Solamalai College of Engineering is affiliated to Anna University, Chennai and approved by All India Council for Technical Education (AICTE), New Delhi offering 7 undergraduate programmes in the disciplines of Artificial Intelligence and Data Science, Civil, Computer Science and Engineering, Computer Science and Business Systems, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering and 4 post graduate programmes in Soil Mechanics and Foundation Engineering, Computer Science and Engineering, Embedded Systems Technology and Master of Business Administration. We have got 3.5 Star rating in IIC 4.0 for the year 2021-2022. Also, we were recognised in the band Promising under the category of “Colleges/Institutes (Private/Self-financed) (Technical)” in Atal Ranking of Institutions on Innovations Achievement (ARIIA) 2021. Our college is a Nodal Centre for BMW Skill Next Program. We are one of the affiliated centres to conduct Pradhan Mantri Kaushal Vikas Yojana (PMKVY). We have MHRD – IIT Bombay supported e-Yantra Robotics lab. Our institution has skill training centres and industry collaborative innovation units for nurturing innovation culture among students. As a result, we are confident that our students will emerge as valuable contributory assets to the development of the organizations they serve as well as the nation.

### Vision

To be a premier institute for higher education nurturing youth and other stakeholders as global, socially responsible citizens through academic, technical & innovative excellence and inclusivity

### Mission

- To create an ecosystem of academic, research & innovation and skilled learning
- To mentor and facilitate inclusive learners to acquire academic excellence and application
- To encourage a mindset of inquiry towards critical thinking and creativity
- To upskill and encourage transformation of learners as lifelong learners and responsible changemakers
- To promote the above through social immersion, community engagement, technical upgradation and industry institute interaction

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

- Very good Infrastructure and the institution is surrounded by lush green environment
- Qualified and dedicated faculty members with good team work. Progressive and Committed Management with Clear Vision, Mission, Goals and Objectives
- Strong Industry Institute Interaction through placement cell.
- MOUs with Industry for curriculum enrichment, FDP 's and Students Training Program
- Separate hostel available for boys and girls inside the campus. Transport facility to nearby towns and villages
- Proactive Internal Quality Assurance Cell (IQAC) to ensure quality in Teaching learning process and excellent placement opportunities for students
- Constituted various clubs and Society to facilitate co-curricular and extension/outreach activities
- In house newsletters, magazines are published regularly to showcase the achievements of both faculty and students
- Facilities available for various indoor and outdoor games for sports
- Financial support to participate in national and international level events
- Centre of Excellence
- Green Initiatives, Awards and Waste management system
- Extension and service to society through NSS, YRC, CII.
- Constant Endeavor to upgrade quality

### **Institutional Weakness**

- Lack of interest among students towards higher studies/research.
- Department yet to get recognition as research centres.
- The quality of students has drastically reduced due to pandemic
- Lack of Diversity in Students and Faculty.
- Less number of faculty with Ph.D.

### **Institutional Opportunity**

- Scope for more consultancy and research projects
- Tie-up with research laboratories to promote knowledge Industrial Centre of Excellences
- Strong Alumni Association – a chance for industry offered courses in Curriculum enhancement Setting up multi-Disciplinary research Centers
- Increased focus on higher education: - Govt. of India focusing more on higher education to provide quality education for UG and PG courses
- Digitization: - Digitization will present a huge opportunity for educational institutions in terms of saving cost as well as reaching out to more students
- Programs in recent emerging specialization

### **Institutional Challenge**

- To enhance funding from DST/ DIT/ UGC/ AICTE/ DRDO/ ISRO etc.
- Not many strong publications
- Increase collaborative research/projects among the faculty members

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

Solamalai College of Engineering (SCE) strongly believes that providing the right learning opportunity for the students will make them industry ready engineers.

- The Institute follows the curriculum prescribed by the Anna University.
- For effective curriculum delivery, SCE adopts traditional teaching and innovative teaching methods and systematic procedures and formats. The curriculum delivery includes traditional teaching, collaborative learning, competition based learning, and supportive learning methods.
- The academic calendar is prepared by the IQAC based on the University academic schedule and it also includes opening date, semester duration, Internal assessment dates, web portal entry details, event details for the entire semester is included.
- Each department prepares the department calendar based on the academic calendar of the college. Department calendar includes Internal Assessments date and the syllabus coverage of internal assessments and completion date for each unit and departmental event activities.
- In each department courses are allocated to faculty members based on their discipline and their choice of preference.
- Before the beginning of the semester the faculty members are asked to submit learning plan and course materials. Faculty should upload course plan and relevant teaching materials in the online platform (Google Classroom).
- For each course Question Bank, Manual, is prepared which is scrutinized by department level and then approved by IQAC.
- Every department organizes industrial visit, field visits, workshops, seminars, guest lectures, hands on training and internship for enhancing their fundamental concepts and knowledge of the subjects. The students are motivated to register for NPTEL/Coursera online courses. Laboratory manual is prepared for the practical courses as well as beyond the syllabus prescribed by Anna University.
- Add on Program are offered to all the students to enhance their skills and capabilities.
- To monitor the progress of the students, the Exam cell plays a vital role in the conduction of internal tests and model examinations.
- The feedback received from the students and stakeholders are carefully analyzed, discussed and appropriate actions are initiated.

### Teaching-learning and Evaluation

- Reinforcement learning among the students in SCE is achieved through model based/practical oriented teaching. Apart from the regular laboratory sessions, mini projects in theory courses enable the students to develop working models demonstrating the skills of learning.
- Admission process for different programs through Tamil Nadu Engineering Admission (TNEA) Counselling by the State Government of Tamil Nadu.
- Student Induction Program (SIP) /Bridge courses programs are organized for the newly joined students.
- The institute has a Learning Management System and a good reservoir of e-learning materials. The excellent mentor-mentee system of the institute takes care of academic and stress related issues.
- The utilization of NPTEL and other innovative methods by the faculty and students.
- The institution has adopted a multi-pronged approach through which students are future ready and imbibed to face professional life challenges using the methodologies to implement an Outcome Based

Education through experiential learning, participative learning and problem-solving methods for enhancing the learning experiences of students.

- The well-advanced Knowledge Resource Centre provides the students a chance to turn their ideas into new prototypes and products.
- We practice outcome-based education at our institute. The institution that is linked with the university adheres to the curriculum and learning objectives set forth by the university. It is communicated to the institute through the controller of the examiner. For reference, a soft copy of each program's curriculum and learning outcomes is uploaded on the institution's website locations where the Vision, Mission are disseminated.
- Alumni association with active contribution of alumni in enhancing teaching learning process.

## **Research, Innovations and Extension**

- The Research, Innovation and Entrepreneurship Committee of our institution trigger the students and faculty members to explore their ideas in the field of research and entrepreneurship.
- Institution has a dedicated team of researchers. A senior faculty member with Ph.D. qualification in each department has been nominated as research coordinator. The Research and Innovation Committee completely monitors research activities in the campus. The committee regularly organizes seminars, workshops, guest lectures, and deliberations on development of latest research. Encourage staff members and students to publish technical papers in National and International Conferences /Journals.
- SCE Assists the students to apply funding for conducting research under student project scheme. SCE facilitates the students and faculty members by providing computing and funding support.
- Institution Innovation Council promotes the activities such as Leadership Talk Series, Success stories, ideation sessions, Problem solving, Prototype Competition, Smart India Hackathon, Proof of Concept development, Design Thinking, IPR, Project and handling and management at Pre-incubation/Incubation stage for faculty members and students.
- The college provides incentives to the faculty for their research contribution. Research meeting are conducted at regular intervals to discuss and finalize the proposals to funding agencies.
- The faculty members who do not possess Ph.D. degree are advised to register for research work.
- SCE- eYantra lab provides an encouragement to the students to come up with new ideas and also to get exposed in the field of Robotic and make industry ready and self-employability.
- Knowledge Resource Centre (KRC) is a specialized domain in science and engineering providing access to bibliographic, digital and printed information resources.
- During last five years Institution has active MOUs with Industries.
- Faculty members and students are actively involved in Institutional Social Responsibility activities through structured forums like NSS, YRC, Red cross, Students clubs and programs/ activity conducted by Govt. Organizations.
- Many recognitions and awards are received for various extension activities from State level agencies and NGOs.

## **Infrastructure and Learning Resources**

- The state-of-art infrastructure augments learning environment is the significant impact of the institution.
- The Management of Institutions is committed in enhancing the infrastructure as and when needed which promotes a good teaching learning environment.
- Campus area has 9.64 acres and built-up area of 19768.88 Sqm. Sufficient number of class rooms and

laboratories with all facilities as prescribed by AICTE/ affiliating university

- Knowledge Resource Centre (KRC) lab is a unique facility provided by the management for augmenting research innovation and Entrepreneurship (RIE) activities.
- Classrooms and Seminar Halls are equipped with ICT facilities.
- Wi-Fi enabled campus. High speed Internet connection with 100 Mbps Leased Line. The college has licensed and open-source software in various departments. The library has a collection of 23625 books and 108 print Journals, 816 E-journals, 711 E-Books.
- Digital Library is equipped with 6 Systems; users can access e-resources like e-journals and e-books.
- Faculty and students can access the facilities beyond the office working hours.
- Excellent power back up through generators.
- Wide and spacious playground.
- Excellent campus maintenance. Adequate financial allocations are made for internal maintenance work of all infrastructures and maintenance of greenery.

### **Student Support and Progression**

- Institution puts in relentless efforts for the all-round development of students. Student chapters of various professional societies like ISTE, IE, Students Clubs, NSS, YRC Games and Sport Committees actively organize technical events, Cultural events, social activities and cocurricular activities.
- Adequate representation is given for students in all academic/administrative committees and students are involved in the decision-making process.
- More than 50% of the students avail scholarships & free ships from Government, non-Government and Management.
- Guidance for competitive examination, soft skills training, Life skills, ICT/Computing Skills, Yoga and meditation classes are organized for student all round development.
- Grievance Redressal-Committee, Anti-Ragging-Committee and Internal complaints committee help the students to address the issues, if there are any.
- Institution has a good placement record; our students are placed in reputed MNC Companies.
- The interested and eligible students opt for higher education in prestigious institutions.
- More than 20 sports/cultural activities/competitions are organized in the institution every year.
- Successful alumni entrepreneurs are motivating the budding technocrats to become Entrepreneurs by sharing their experience. Barriers and successful strategies shared by them give a clear idea for the students to enhance their skills to become successful Entrepreneurs.
- Alumni association with active contribution of alumni in enhancing teaching learning process and placement training activities.

### **Governance, Leadership and Management**

- The organization structure of the institution and decentralization is clearly defined in the campus.
- The Institute is on its way to victory, guided by a well-constructed Governing Council that includes individuals from both academic and non-academic backgrounds. The Governing Council meets regularly to discuss all major decisions and strategies pertaining to academic and non-academic activities and assignments.
- The Management has constant touch with the Associate director, Principal, Co-ordinator-IQAC and Administrative Officer to maintain cordial rapport to discuss the infrastructural needs, development,

administration and appointments.

- The principal, in collaboration with the HODs of several departments, effectively implements the Governing Council's recommendations. The principal has regular meetings during which concerns relating to academic and non-academic activities are discussed and communicated to all staff members through their respective HODs.
- Institution/ departments have a clear perspective/ strategic plan and it is deployed effectively. Each functional body is clearly defined with service rules and procedures. Institution has well defined procedures for recruitment and promotion.
- Institution has implemented e-governance in all the areas of administration, examination process, library and academics.
- Different cells and committees are formed, and all curricular, co-curricular, and extracurricular activities are carried out appropriately. This guarantees that policies are carried out in a transparent manner. The operations of several cells are overseen by interested faculty members as well as interested students.
- HODs organize Career Guidance Programmes, Workshops, Value added course, symposium, social relevance activities, Seminars and Conferences to enrich the knowledge and showcase the talents of students.
- The institute helps fund assistance for teaching staffs who attended conferences, seminars, and workshops hosted by other institutions and professional organizations.
- More number of professional development/ administrative training programs organized in the campus for the benefits of teaching and non-teaching staff during the last 5 years.
- Institution has implemented various welfare measures for teaching and non-teaching staff to keep them comfortable.
- The IQAC is responsible for the effective implementation of the Quality processes. IQAC is conducting quarterly meeting and organized collaborative quality initiatives.
- IQAC conducts the Academic and Administrative Audit and based on the observation of the report, quality recommendation is given.

### **Institutional Values and Best Practices**

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

- The institution takes on numerous efforts by planning various events to educate students and staff about their constitutional duties and rights, as well as about their own values and civic obligations. The college makes sure that the students engage in all such activities with great enthusiasm.
- The college has taken some significant measures in energy conservation, waste management, and rain water harvesting and tapping unconventional energy sources.
- The institute is recognized with green campus award for various green initiatives.
- Various schemes like, elevation of the underprivileged sections of the society, scholarships to the deserving students, financial aid to the poor students without any discrimination of caste, creed or gender, women empowerment programs, counseling for students and social awareness programs in collaboration with various governmental agencies are being implemented.
- The best practices are oriented towards the quest for excellence and with concrete efforts this can bring a change in the life of the whole institution as well as the stake holders.
- To inculcate innovative learning among students, the institute has also organized a programme with different industrial domain experts to present the recent trends and methodologies adopted in competitive industries
- Through service and cultural club's various events are conducted to ensure gender equity and

sensitization in cross cutting issues.

- The SCE clubs also celebrates national and international commemorative days, and organizes events and celebrate festivals regularly.
- Literary club in the college, which is active and serves to improve the usage of languages and it involves the students from heterogeneous backgrounds to take part in its activities.
- KRC lab of SCE provides an excellent eco system for research and development for faculties and students.

The popular inspirational quote of APJ Abdul Kalam is a continuous driving force behind all the stakeholders.

**“Education is the most powerful weapon which you can use to change the world” -- APJ Abdul Kalam**



## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	SOLAMALAI COLLEGE OF ENGINEERING
Address	S.V RAJA NAGAR , VEERAPANJAN , SIVAGANGAI ROAD
City	MADURAI
State	Tamil Nadu
Pin	625020
Website	<a href="http://www.solamalaice.ac.in">www.solamalaice.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	M. Santhi	0452-2429280	8012506072	-	principal.scemdu@gmail.com
IQAC / CIQA coordinator	C Seelammal	0452-2429346	8012506088	-	iqac.scemdu@gmail.com

Status of the Institution	
Institution Status	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

State	University name	Document
Tamil Nadu	Anna University	<a href="#">View Document</a>

**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	<a href="#">View Document</a>	03-07-2022	12	

**Recognitions**

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

**Location and Area of Campus**

Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	S.V RAJA NAGAR , VEERAPANJAN , SIVAGANGAI ROAD	Urban	9.64	19768.88

**2.2 ACADEMIC INFORMATION**

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Civil Engineering	48	HSC	English	30	11
UG	BE,Computer Science And Engineering	48	HSC	English	60	59
UG	BE,Electrical And Electronics Engineering	48	HSC	English	30	14
UG	BE,Electronics And Communication Engineering	48	HSC	English	60	38
UG	BE,Mechanical Engineering	48	HSC	English	30	5
UG	BTech,Artificial Intelligence And Data Science	48	HSC	English	30	16
UG	BTech,Computer Science And Business Systems	48	HSC	English	60	12
PG	MBA,Master Of Business Administration	24	UG	English	60	54
PG	ME,M E Computer Science And Engineering	24	UG	English	9	5
PG	ME,M E	24	UG	English	9	7

	Embedded System Technologies					
PG	ME,ME E Soil Mechanics And Foundation Engineering	24	UG	English	18	18

**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				13				75			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	10				13				75			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
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				26
Recruited	10	16	0	26
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
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				13
Recruited	9	4	0	13
Yet to Recruit				0

### Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	5	5	0	0	0	0	0	3	0	13
M.Phil.	0	0	0	1	0	0	3	6	0	10
PG	0	0	0	9	3	0	41	22	0	75
UG	0	0	0	0	0	0	0	0	0	0

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

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

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male		Female	
	Others		Total	
	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	458	0	0	0	458
	Female	173	0	0	0	173
	Others	0	0	0	0	0
PG	Male	48	0	0	0	48
	Female	36	0	0	0	36
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	21	14	11	3
	Female	10	10	4	2
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	93	67	58	52
	Female	42	28	37	29
	Others	0	0	0	0
General	Male	0	0	0	0
	Female	3	0	0	0
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		169	119	110	86

### Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>Our institution has the vision of setting a benchmark for the education providers in the field of Engineering and Technology and providing quality technical education that fosters the spirit of learning and research through an innovative synergistic model of education that promotes academic excellence, scientific pursuit, and professionalism. The institution is keen in promoting multidisciplinary approach among the student community thereby facilitating the young minds to solve day to day societal problems. STEM (Science Technology Engineering and Mathematics) Club has been actively undertaking lot of student activities for integrating humanities and science with STEM. It develops the multidisciplinary</p>
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	<p>approach among the young minds by applying the concepts of Science Technology Engineering and Mathematics. The club plans events such as workshop, guest lecture, project expo, etc. at the beginning of every academic year. Being a non-autonomous institution, we follow the curricula and syllabi offered by the affiliating university viz. Anna University, Chennai. The university offers non-credit mandatory courses that emphasize general health, mind, history &amp; culture, nation building, gender equality and industrial safety in the minds of students. The university offers credit courses on human values &amp; ethics, environmental science and sustainability, internship and project work towards the attainment of a holistic and multidisciplinary education. The institution will offer a multidisciplinary flexible curriculum that enables multiple entries and exits at the end of 1st, 2nd and 3rd years of undergraduate education, once it becomes autonomous. The institution is undergoing the process of getting autonomous status. The institution has Knowledge Resource center. Since most of today challenges need solutions incorporating multidisciplinary research, we encourage students to take up projects in these centers based on their interest but employ the multidisciplinary approach through knowledge sharing with the fellow students. Many students presented their innovative ideas in smart India Hackathons through innovative contest and secured prizes</p>
2. Academic bank of credits (ABC):	<p>Academic Bank of Credits has been established on the lines of the National Academic Depository (NAD). Credits awarded to a student for one program from an institution may be transferred / redeemed by another institution upon students' consent". Our institution is planning to register with Academic Bank of Credits from next academic year after getting approval from Governing Council. We encourage the students to learn and earn credits through the online modes in SWAYAM, NPTEL, etc. Many of our students have successfully completed such online courses. Our faculty members are also encouraged to register such courses which are considered as equivalent to FDPs. Our institution has an active NPTEL local chapter. Our faculty members have successfully completed online courses in NPTEL and</p>

	Swayam with good scores and ranks. The institution has been encouraging the faculty members to prepare the course material, assignments, quiz, etc.
3. Skill development:	Solamalai College of Engineering is committed to organize capacity building and skill enhancement activities to equip the students to face the challenges raised by the competitive and emerging world. The sessions and trainings for capacity building and skill enhancement are handled by resource persons from within the college, corporate sectors and prestigious educational and research institutions. The training covers various emerging topics in the field of Engineering and technology. Students will be trained in their first semester on activating productive language skills through an initiative of Tamil Nadu Government.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Being a non-autonomous institution, our institution offers non-credit mandatory courses that emphasize on Constitution of India and its culture, nation building. The institution emphasizes the bilingual mode of teaching by the faculty members especially to teach Tamil medium students from rural background and pay individual attention during tutorial sessions and performance enhancement classes. The institution conducts number of awareness programmes to the students on environment, sustainability, energy conservation, ancient knowledge, arts, culture and tradition of our country through the students clubs.
5. Focus on Outcome based education (OBE):	The institution has adopted a multi-pronged approach through which students are future ready and imbibed to face professional life challenges using the methodologies to implement an Outcome Based Education through experiential learning, participatory learning and problem-solving methods for enhancing the learning experiences of students. The academic calendar is prepared by the IQAC based on the University academic schedule and it also includes opening date, semester duration, Internal assessment dates, web portal entry details, event details for the entire semester is included. Each department prepares the department calendar based on the academic calendar of the college. Department calendar includes Internal Assessments date and the syllabus coverage of internal assessments and completion date for each unit and departmental event activities. COs are

	<p>suitably framed by the course coordinator for each course, based on the syllabus and objectives of the course. COs are mapped with POs and PSOs. Questions in the internal assessment and assignments are framed such that the assessment of the entire COs is properly made. Based on the performance of students and target fixed for attainment of each CO, assessment of attainment of COs is computed. If the target is not achieved, then suitable corrective action such as changing the pattern of delivery of courses and assessment will be taken by the faculty members. Similarly, assessment is made based on the performance of students in the external end semester examination. Then the assessment of attainment of POs and PSOs is made through all the courses as well as activities through mini projects, case studies, seminars and workshops, etc.</p>
6. Distance education/online education:	<p>The institution supports online learning and assessment through Google Classrooms and Zoom apart from traditional teaching. Classroom teaching and learning sessions are video captured. Faculty members could go through the videos captured, make corrections and additions in their lectures. They could share the material with the students for enhanced learning. Some faculty members have also presented video lectures in YouTube. The institution is also planning to offer certificate courses online for professionals and value-added course for our students in the recent areas of AI, IoT, Data Science, Cloud Computing, etc. to meet the future challenges of the society.</p>

### Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	<p>Yes, we have Electoral Literacy Club (ELC) in our college and it is effectively functioning with the complete involvement of our students. Through various activities the electoral process of registration and voting is familiarized among students.</p>
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	<p>We have both the faculty and student members as coordinator's, appointed by the college and it has its own representatives. The functions of this club are done through involving student participants in various awareness programmes. ELC includes the</p>

	members as listed below: 1. Chairman 2. Faculty Co-Ordinator's 3. Department staff members 4. Student representatives from each department which is categorized as a) President b) Vice-president c) Secretary d) Joint secretary.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	The club encourages the students to conduct many innovative activities to help them to know their rights. Students in this club motivate others to take part in competitions conducted by 'Systematic Voter's Education and Electoral Participation' (SVEEP). The activities help the students to equip their skill sets and builds confidence in various forms. We also play some street plays, mimes, debates, etc., to strengthen the importance of voting.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.	This club promotes students to involve in various awareness programmes, through NSS awareness sessions like rural campaigns, adopting villages to spread awareness, sharing the basics of voting were conducted. Students learn the importance of voting and spreads the opinions everywhere.
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	The prior objective of this club is to make every citizen as voters. This is done through poster competition, giving awareness to all the students about their own vote. These activities were made to strengthen the importance of voting. This benefits all the peoples and promotes them as a responsible citizen and also, they realize the power of votes, which can change anything in the country.

## Extended Profile

### 1 Students

#### 1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
510	391	370	343	337

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 2 Teachers

#### 2.1

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

Response: 287

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

#### 2.2

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

2021-22	2020-21	2019-20	2018-19	2017-18
105	118	122	120	141

### 3 Institution

#### 3.1

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

2021-22	2020-21	2019-20	2018-19	2017-18
242.83	228.91	206.35	205.05	188.56



## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

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

##### Response:

Solamalai College of Engineering(SCE) is affiliated with Anna University, Chennai, Tamilnadu, and follows the curriculum and syllabus framed by affiliated colleges.

For effective curriculum delivery, SCE adopts traditional teaching and innovative teaching methods and systematic procedures and formats. In each department based on the subject preference collected from the individual faculty, courses are allocated to each faculty members based on their discipline. IQAC verifies the infrastructure available for the smooth functioning of the forthcoming semester. The academic calendar is prepared by the IQAC based on the University academic schedule and it also includes opening date, semester duration, Internal assessment dates, web portal entry details, event details for the entire semester is included. Each department prepares the department calendar based on the academic calendar of the college. Department calendar includes Internal Assessments date and the syllabus coverage of internal assessments and completion date for each unit and departmental event activities.

The curriculum delivery includes traditional teaching, collaborative learning, competition based learning, and supportive learning methods.

1. Traditional teaching methods: It includes preparation of detailed lesson plans, a question bank, lab manuals, lecture notes, tutorials and assignments, and content beyond the syllabus based on the feedback from industry, alumni, and previous year's academic performance of the students.

2. Collaborative Learning: Our Institution arranges industrial visits and Guest Lectures every semester to bridge the gap between industry expectations and Institution. Internship and industrial projects are arranged for the students to avail practical exposure. Innovative project Expo conducted every year in order to exhibit the innovative ideas of student and converted into live projects through Entrepreneurship Development Cell. Add-on courses are arranged for the students to enrich their knowledge. Industry resource persons are utilized to deliver the partial curriculum and content beyond curriculum.

3. Competition Based Learning: Students are motivated to participate at national and international level competitions conducted by various institutions.

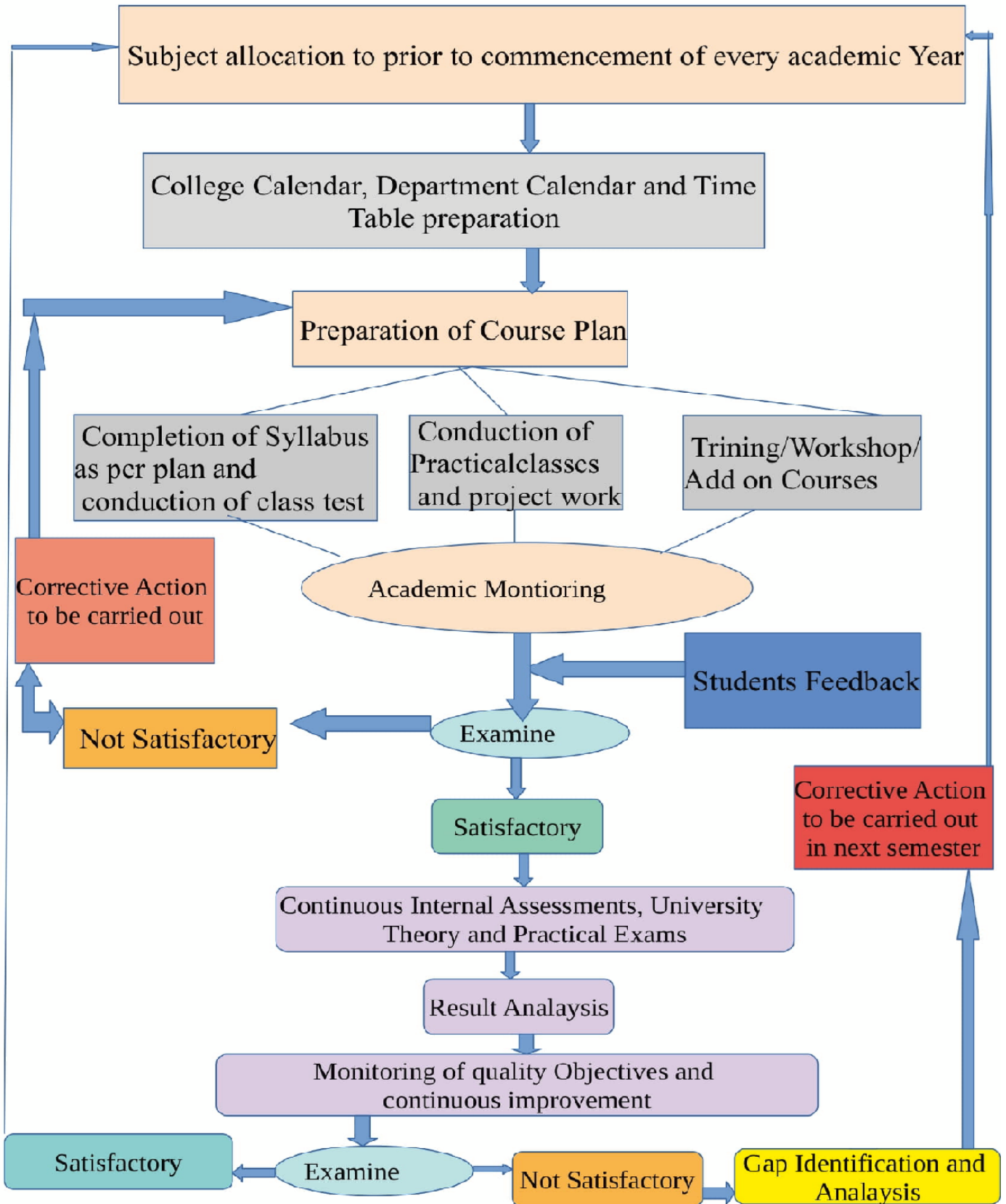
4. Before the beginning of the semester the faculty members are asked to submit learning plan and course materials. Faculty should upload course plan and relevant teaching materials in the online platform(Google Classroom).

5. Every department organizes industrial visit, field visits, workshops, seminars, guest lectures, hands on training and internship for enhancing their fundamental concepts and knowledge of the subjects. The students are motivated to register for NPTEL/Coursera online courses. Laboratory manual is prepared for

the practical courses as well as beyond the syllabus prescribed by Anna University.

To monitor the progress of the students, the Exam cell plays a vital role in the conduction of internal tests and model examinations. The exam schedule is pre-planned and the test was conducted based on University Exam to create the same environment and atmosphere for the students. Exam cell announces the dates for submission of Question papers and entry of marks and also reminds the dates of web portal entry. Question paper setting was taken based upon the question bank and previous university questions with answer keys and the evaluation process was done within three days from the completion of the test.





Flow Chart for SCE Curriculum Planning and Implementation

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

### 1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years

**Response:** 60

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years

**Response:** 90.31

#### 1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
435	388	321	324	294

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 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:**

Our Institute integrates the Cross Cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics for the overall development of students.

#### 1. Gender Equity:

Institution provides equal opportunities for both boys and girls in terms of admission, co-curricular, extra-curricular and placement opportunities. Both students as well as staff are the representatives of SC/ST committee, Grievance Redressal Cell, Academic Council, Internal Quality Assurance Cell and class committee. Female faculty members are appointed as members of Anti-Ragging committee and Antiragging squad as the evidence of empowerment. Equal participation of girl students can be seen in the committees framed for the various functions held at our college like organizing committee for college annual day functions, Symposium, NSS, Rotaract, UBA, Smart India Hackathon, cultural programmes in Pongal festival, Republic day and Independence day. Women's day celebration is organized every year in our college. The main aim to focus on women empowerment is to create awareness and motivate the girl students about their rights and human values of women towards the development of nation.

## 2. Environment and Sustainability:

University has included different types of courses in the curriculum to bring awareness among students for environment and sustainability. All programmes have a compulsory course of Environmental Science and Engineering in first and second year curriculum. In this subject, students study the basic components of environment and its application to tackle issues such as pollution control, rain water harvesting, projects on environmental issues, projects on sustainability, energy conservation and Design of building with the use of sunlight. In Civil Engineering programme, students learn environmental engineering, waste water engineering and irrigation engineering as core subjects. Renewable energy utilization is achieved in our campus through the installation of solar plant, wind mill and bio gas plant.

## 3. Human Rights:

In order to integrate human rights into curriculum, Anna University offers Human Computer Interaction, Human Resources Management and Strategic Human Resource Management course as an elective and the same is delivered to the students. Further our institute follows a transparent system of administration. Committees like SC/ST and Anti-Ragging deal issues regarding to any related mischievous activities.

## 4. Professional Ethics and Human Values:

Professional ethics are values that manage the attitude a person or a group of corporate/Professional environment. It also provides guidelines on environment on how a person should act towards other people and institutions. Based on that students are inculcated about Professional Ethics through Anna University curriculum course like Professional Ethics in Engineering, Principles of Management and Total Quality Management, and also we educate and motivate the students to follow the key ethical values.

Human values can be assured of a happy and harmonious human society. At our college, we cultivate and inculcates these human values from the first year onwards through induction programme ( Universal Human Values) prescribed by AICTE modules.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

**1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)****Response:** 67.45**1.3.2.1 Number of students undertaking project work/field work / internships****Response:** 344

<b>File Description</b>	<b>Document</b>
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

**1.4 Feedback System****1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)****Response:** Yes

<b>File Description</b>	<b>Document</b>
Upload supporting document	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Enrolment percentage

**Response:** 24.52

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

2021-22	2020-21	2019-20	2018-19	2017-18
169	119	110	86	139

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

2021-22	2020-21	2019-20	2018-19	2017-18
306	315	600	630	690

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

#### 2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)

**Response:** 46.06

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

2021-22	2020-21	2019-20	2018-19	2017-18
120	104	110	84	138

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

2021-22	2020-21	2019-20	2018-19	2017-18
149	153	271	303	331

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 2.2 Student Teacher Ratio

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

**Response:** 4.86

## 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 using ICT tools

**Response:**

The institution has adopted a multi pronged approach through which students are future ready and imbibed to face professional life challenges using the methodologies stated below to implement an Outcome Based Education through experiential learning, participatory learning and problem solving methods for enhancing the learning experiences of students.

#### **EXPERIENTIAL LEARNING:**

Reinforcement learning among the students in SCE is achieved through model based/practical oriented teaching. Apart from the regular laboratory sessions, mini projects in theory courses enable the students to develop working models demonstrating the skills of learning.

Project Expo events conducted in the institution to input exploring skill among the students.

Industrial visits, Field Visit, Internship are regularly arranged to enhance the practical knowledge of the students where they get an exposure to relate the theory with the processes adapted in the industry.

The well advanced Knowledge Resource Centre provides the students a chance to turn their ideas into new prototypes and products.

#### **PARTICIPATORY LEARNING**

Students are encouraged to explore knowledge using explanative, empowerment and explorative

approaches through Guest Lectures, Workshops, Seminars, Conference, Value Added Courses for participatory learning. These Participants will get exposure to the selection of their project titles.

Students whoever learned from anywhere can share their knowledge and scattering of knowledge leads to develop their horizontal exposure through student IGNITE programme.

Participating in Class Committee Meeting would help the students to share their academic & non academic requirements.

In order to motivate current students to upgrade their knowledge based on their interested areas and to improve their ability to the current trends, we organize an Alumni Interaction Program.

The Institution encourages our students to do online certification courses like SWAYAM/NPTEL, Coursera, ICT Academic etc, to enrich their knowledge beyond the academic syllabus.

The career guidance and counseling program such as group discussion, aptitude tests, mock interviews etc., are provided by the Placement Cell to enhance the overall personality development of students and to make realistic academic and career decisions

#### **PROBLEM SOLVING METHODOLOGY:**

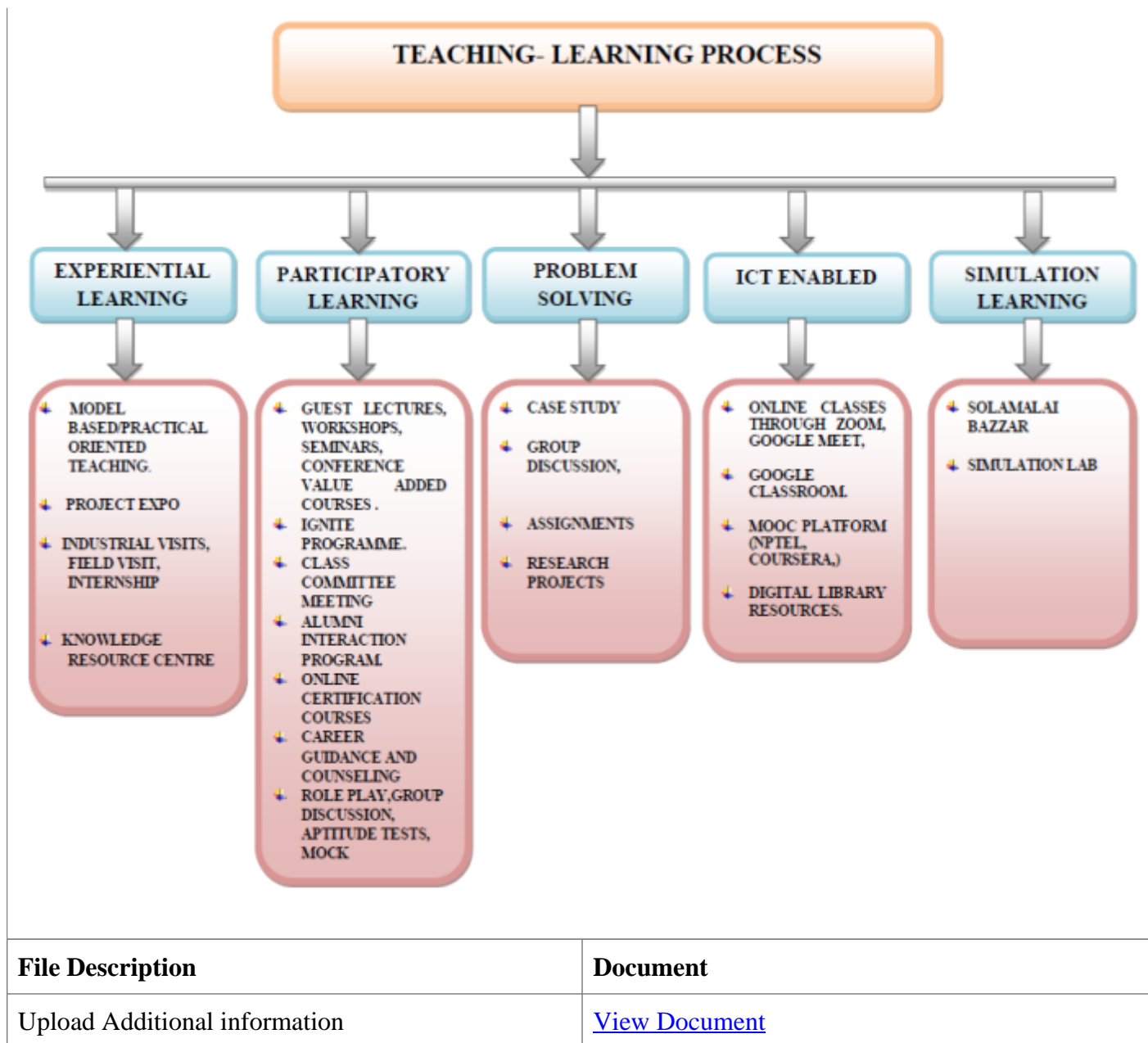
Case study method is adopted in teaching learning process to make the students have logical thinking and practical knowledge to develop problem solving ability. All questions in the examination are based on analysis and reasoning. Group discussion, Quiz, Role play Assignments are conducted by subject teachers.

#### **ICT ENABLED:**

Our college uses Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education. The following ICT tools are used by the Institute: Projectors, Desktop and Laptops, Printers, Photocopier machines, Scanners, Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom. MOOC Platform (NPTEL, Coursera,) ,Digital Library resources.

#### **SIMULATION LEARNING:**

Solamalai Bazaar events conducted in the institution to explore the practical potential among the students to practice critical work skills in a controlled environment. By participating in simulation learning student gets critical thinking and expanding knowledge, to predict results and formulate new question



## 2.4 Teacher Profile and Quality

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

Response: 100

#### 2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
105	118	122	120	141



File Description	Document
Upload supporting document	<a href="#">View Document</a>

#### **2.4.2 Percentage of full time teachers with NET/SET/SLET/ 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:** 5.94

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

2021-22	2020-21	2019-20	2018-19	2017-18
11	9	7	5	4

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## **2.5 Evaluation Process and Reforms**

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

**Response:**

Examination Cell in our college functions effectively for monitoring the conduct fall the internal and end semester examinations. The College Examination Cell coordinator is co-operated by a team consisting of Assistant Examination Cell coordinators, Office assistants.

The Academic schedule is circulated by the University to all the affiliated colleges. The Internal Assessment schedule is prepared based on the University schedule by the Examination Cell of the Institution. It is displayed in the Department and Common Notice Board and also circulated to all the students.

In advance students can aware of examinations and plan well for their study based on the elaborate academic calendar which is available in each department's notice-board and on the college website. The proper instructions given by the university is read in the classrooms and the photocopy of the instructions is displayed on the department notice board.

The institute is affiliated with Anna University, Chennai. University prescribes 80% weightage for university Examination and 20% weightage for internal assessment.

Based on the academic schedule framed from the university, internal examinations are planned. During the Class Committee Meetings the university question pattern for internal examination is communicated to the students.

The university pattern is followed for the preparation of the internal exam question paper. This helps the students managing time during university examinations.

Continuous Internal Assessment Test (CIAT) question paper is scrutinized and approved by senior faculty and head of the department

Three CIATs are conducted for each semester. The syllabus for the internal examination is considered as below. Periodically Internal assessment marks and attendance are uploaded in the Anna university web portal.

Internal Exam	Syllabus
CIAT I	Unit 1 (Full unit) and Unit 2 (Half unit)
CIAT II	Unit 2 (Half unit) and Unit 3 (Full unit)
CIAT III	Unit 4 and Unit 5

The centralized exam cell conducts the CIAT as per planned.

The poor performing students should bring their parents to college and meet their concern mentor/class advisor/HOD. Internal exam result is analyzed by comparing subject wise; HoD will give some suggestions to improve the student's performance.

#### **Students Grievances:**

All the grievances identified in the Continuous Internal Assessment tests for the student are rectified by Chief superintend and Principal.

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File Description	Document
Upload Additional information	<a href="#">View Document</a>

## **2.6 Student Performance and Learning Outcomes**

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

#### **Response:**

Our institute is affiliated to Anna University, Chennai and given guidelines to frame course outcomes for each course. Program specified outcomes (PSOs) are developed by the department head and senior faculty members and are carefully defined and published by the accreditation authority, which is globally acknowledged by all professional colleges. After brainstorming sessions with the subject-matter, faculty

members aligning with the course content unit-wise and Blooms Taxonomy, the department heads and a team of senior faculty members frame COs.

We practice outcome-based education at our institution . The institution that is linked with the university adheres to the curriculum and learning objectives set forth by the university. It is communicated to the institution through the controller of the examiner. For reference, a soft copy of each program's curriculum and learning outcomes is uploaded on the institution's website locations where the Vision, Mission are disseminated:

S.no	LOCATION	INSTITUTE		DEPARTMENT	
		Vision	Mission	Vision	Mission
1	A&A Record	•	•	•	•
2	Academics calendar	•	•		
3	Admission Room	•	•		
4	College Website	•	•	•	•
5	Principal's Office	•	•		
6	HOD chamber	•	•	•	•
7	Classrooms	•	•	•	•
8	Faculty rooms	•	•	•	•
9	Laboratories	•	•	•	•
10	Department Notice Board	•	•	•	•

#### Attainment of Course Outcomes:

The department conducts assessment on a regular basis to identify, gather, analyse, and evaluate the data in order to accomplish the course outcomes (CO). Data from various theory courses, Lab Courses, and Project

Courses are taken into account while calculating CO attainment. Internal assessments are given 20% weightage for all courses, while external assessments are given 80% of the weightage.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 2.6.2 Pass percentage of Students during last five years

**Response:** 81.98

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

2021-22	2020-21	2019-20	2018-19	2017-18
93	107	100	41	32

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

2021-22	2020-21	2019-20	2018-19	2017-18
103	112	103	65	72

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

### 2.7.1 Online student satisfaction survey regarding teaching learning process

**Response:** 3.86

File Description	Document
Upload database of all students on roll	<a href="#">View Document</a>

## 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:** 23.68

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

2021-22	2020-21	2019-20	2018-19	2017-18
8.475	5.5	9.7	0	0

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 3.2 Innovation Ecosystem

**3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge**

**Response:**

Solamalai College of Engineering has created an ecosystem for bringing and strengthening research, innovation and entrepreneurship related activities among students and faculty members. The academic and research capabilities of SCE continuously contribute to inspire the students for solving vital issues through various research and skill development programs to make the students as innovators and entrepreneurs.

#### **Research and Innovation Committee**

The Research and Innovation Committee completely monitors research activities in the campus to explore their ideas in the field of research and entrepreneurship.

The committee regularly organizes like seminars, webinar, workshops, idea competitions and deliberations on development of latest research. Especially on every year 15th Sep **Engineer's day** is celebrated with **Innovative project Contest** / Expo and **Science Day** is celebrated on 28th Feb. Faculty members are encouraged to publish technical papers in National and reputed International Conferences /Journals and Patents . SCE Assists the students for conducting research under **L. Kuppammal and V. Logan than Pillai foundation** Scheme. A total of 77 research papers are published in National / International Journals, and Conferences during the last five years. 7 Books are published by our faculty.

**Institution Innovation Council (IIC):**

Institution Innovation Council was established in the Institute under the support of MHRD's Innovation Cell (MIC) in **2018**. It was established to engage faculty members and students in various revolutionary research and entrepreneurial Skills. Institution Innovation Council promotes various activities such as Leadership Talk Series, Success stories, ideation sessions, Smart India Hackathon, etc., for faculty members and students. Exclusively IIC organized **Innovation Ambassador Training** programs for faculty members.

**SCE-IIC achievements** for promoting Entrepreneurship, Innovation and Start-up in campus:

- During 2019-20 SCE-IIC awarded with a **3.5 STAR** rating by MoE-MIC
- SCE-IIC awarded with a **3 Star** Rating by MoE-MIC during the academic year 2020-2021.
- In the Year 2021-22 SCE-IIC awarded with a **3.5 STARS** rating by MoE-MIC

**Entrepreneur Development Cell (EDC)**

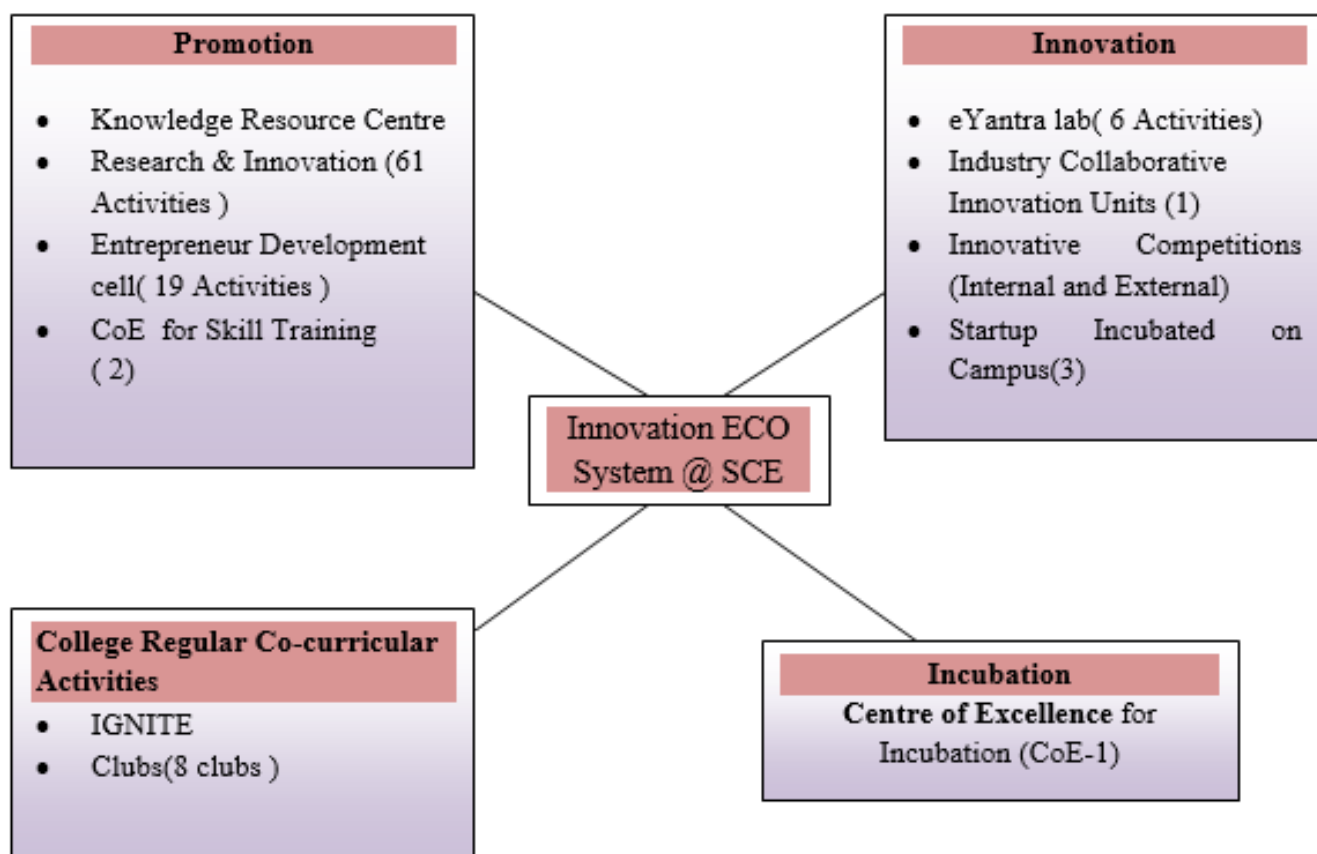
In the way to achieve the goal of entrepreneurship, SCE continuously organizing guest lectures, seminars and workshops, motivational talks for students, faculty and alumni to promote Entrepreneurial Culture. It provides a platform for students to inspire and nurture the younger minds towards innovation and entrepreneurship which results in creating technology-based Startups.

**Knowledge Resource Centre (KRC)**

Knowledge Resource Centre (KRC) is a specialized domain in science and engineering providing access to bibliographic and digital and printed information resources. The KRC has a specialized collection of 580 information resources comprising books, reference resources, conference documents, reports, CD resources and audiovisual films.

**eYantra Lab**

e-Yantra Robotics Laboratory was virtually inaugurated at SCE on 11.10.2018. e-Yantra is a project sponsored by MHRD through the National Mission on Education through ICT (NMEICT) programme and supported by IIT Bombay. SCE-eYantra lab provides an encouragement to get exposed in the field of Robotic and make industry ready and self employability.



File Description	Document
Upload Additional information	<a href="#">View Document</a>

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

Response: 61

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

2021-22	2020-21	2019-20	2018-19	2017-18
26	18	5	5	7

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 3.3 Research Publications and Awards

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

**Response:** 0.11

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

2021-22	2020-21	2019-20	2018-19	2017-18
07	16	10	0	0

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

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

**Response:** 0.09

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

2021-22	2020-21	2019-20	2018-19	2017-18
14	6	4	3	0

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 3.4 Extension Activities

**3.4.1 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:**

Solamalai College of Engineering (SCE) is an active participant in conducting various holistic extension activities through our students to the neighborhood community. SCE has the following active clubs such as NSS, RRC, Rotaract, YRC and Unnat Bharath Abhiyan (UBA) to nurture and create the social, holistic development among the mankind.

In line with the above, SCE- NSS has conducted various health camps, awareness programs on Say No to Plastic in Madurai. Besides, SCE has conducted **blood donation camps, AIDS awareness programs, Dengue and corona awareness programs** to create consciousness about the wellness of human society. Many of them volunteered themselves and helped the needy people.

Moreover, to create the awareness about the **global warming** and safeguard our earth as well with the intention to reduce the carbon footprint in nearby villages, SCE has conducted tree plantation camps in Ilamanur village, through this event; we shared the importance of the plantation among the peoples of the village.

Apart from that, to take in the importance of wellness of the humans towards to make them fit physically and mentally, awareness programs were organized related to **Yoga – A way of life** on international yoga day by YRC. This program creates awareness on how stay healthy in this modern world.

As part of the **Unnat Bharat Abhiyan (UBA)** scheme, five villages were adopted: ilamanur, Varichur, Thamarai patti, Melamadaï and othakadaï. In the adopted villages, survey camps, tree plantations, and medical camps were held for the benefit of the villagers.

SCE **UBA** in their part, have conducted the various social wellness programs to motivate the Varichiyur villagers by conducting the programs like road safety rally, sapling distribution across the villages. Most of the women from **Varichiyur village** have participated in the women **empowerment awareness camps** and raised their doubts for the sake of their personal growth and benefited.

An awareness program has been conducted on **Good Touch and Bad Touch** in Ilamanur for Govt school students. Most of the listeners have benefitted out of these programs and educated themselves. SCE UBA in their part have conducted several programs like medical camps, distribution of masks, kabasurakudineer, nilavembu kasayam and staying healthy during quarantine, this kind of interaction sessions emphasized the importance of staying healthy during pandemic or epidemic circumstances.

SCE completely believes in neighborhood community development as the top most prioritized domain.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

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

**Response:**

Solamalai College of Engineering (SCE) paves a way to a variety of social awareness programs under extension activities with fullest effort to foster a holistic environment in addition to academic recognition and appreciation.

The extension activities foster the pupils become more self-assured, build leadership abilities, and learn about individuals. Students also pick up additional abilities that enable them to live better lives in all circumstances. NSS volunteers of SCE actively participating in all the Madurai medical college blood donation camps to promote the colossal inspiration to young students. The value of human blood cannot be compared to anything. SCE got the **certificate of appreciation** for supporting **Blood Donation camp** for the **last four successive years** from 2019 to 2022.

By keeping the significance of innovation to the societal issues SCE has received a **certificate of recognition** "Atal Ranking of Institutions on Innovation Achievements" from MOE, Government of India in 2021.

In order to incorporate fitness into every aspect of our daily life, the Honorable Prime Minister inaugurated the **FIT INDIA Movement** on August 29, 2019. The Movement's goal is to influence people's behaviors and encourage them to live more physically active lifestyles. In order to achieve this, SCE organized "**Fit India Cyclothon- 2020**" and received the **certificate of recognition** from Ministry of Youth Affairs and Sports, Government of India.

The concept of "digital awareness" refers to the level of familiarity, comfort, and competence necessary for using technology in its most fundamental forms. With a mission of **Digital India** is to provide digital infrastructure facilities as a source of utility for each of our citizen. To strengthen this concept, SCE and **KALAM's DIGITALL Village** jointly organized digital literacy and digital awareness programs in Varichiyur village and DIGITALL appreciated the service provide to the villages in 2020-2021. These programs impart the village students and villagers to know how digital platforms or gadgets operate are a necessary ability in the twenty-first century.

ICT Academy is an initiative of the Government of India in collaboration with the state governments and Industries. SCE is having a **membership of ICT Academy**, through this initiative SCE organizing FDP, Power seminars, Skillathon, Learnathon to enrich the knowledge and skills of our faculty members as well as our students.

Swachh Bharat Abhiyan is an example of a programme where each person's contribution is valued highly and equally. To nurture this, under Swachh Bharat Abhiyan a cleaning campaign was organized in rural regions like Thirumohur and Otthakadai Temples. SCE received the **certificate of appreciation**.

#### **Benefits of Awards and Recognitions:**

- Inspiring students
- Show Gratitude to the Society
- Establish a favorable atmosphere

File Description	Document
Upload Additional information	<a href="#">View Document</a>

**3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years**

**Response:** 56

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

2021-22	2020-21	2019-20	2018-19	2017-18
14	8	12	8	14

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 3.5 Collaboration

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

**Response:** 17

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

#### 4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

##### Response:

Our campus is green and spread across 9.64 acres to provide a conducive and inspiring environment with the basic amenities. The institution has adequate infrastructure and physical facilities for teaching – learning viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre and other facilities to conduct various curricular and co-curricular activities.

##### Classrooms and Seminar Halls:

The existing infrastructure for teaching and learning is adequate as per the affiliating University. Our institution has 39 classrooms with proper ventilation facilities, and black coloured chalk boards. ICT facilities such LCD projectors are provided to ensure effective teaching and learning. There are 2 seminar halls to conduct seminars, symposiums, conferences, and workshops etc.

##### Labs:

There are 31 laboratories equipped with state-of-the-art facilities to provide experiential learning to the students.

##### English Language Lab:

English language lab provides a platform for the students to enhance English language skills, communication skills and to practice soft skills.

##### E-yantra Robotics lab:

E-yantra lab is available in our institute to promote project-based learning supported by MHRD and IIT Bombay.

##### Digital Library:

The salient features of our Digital Library are Scanning facility, Internet access, e-book access, e-Journal access, NDLI access, Reprography, Web OPAC, Library, User interactive information browser: providing access to Digital copies of books and references, Interactive Audio Information System, link with Academic network-DELNET.

##### Hostel:

We provide excellent hostel facilities for both boys and girls. The hostels are in the close vicinity of classrooms and laboratory blocks and each room is spacious. We provide accommodation facility for faculty and staff inside the campus.

**Transport:**

The college offers its own transportation for students residing outside campus. The transport facility (8 buses) is provided to students commuting from all parts of Madurai and surrounding areas.

**Sports and Games:**

The institution has required number of fields for conducting sports and games events. Every year our institution encourages in organizing various sports events for the sports day. Our students participate in sports & games conducted at zonal and inter zonal level. Students and Physical Director are encouraged by providing TA and DA. Our college has provided a ground for track and field events of about 400m, court for Volley Ball, Ball Badminton, Kho-Kho, Kabaddi, Badminton, Throw ball, Hand ball, Cricket, and Football field. Chess, carrom and table tennis play stations are available in the institution.

**Auditorium:**

Our institution has an auditorium of 5267 sq. feet to accommodate 550 members to conduct various cultural, yoga and other technical events.

**Gym:**

A well-equipped fitness center with 16 station Gym is available in our college.

**Infrastructure for Innovation Eco System:**

Our institution has the facilities such as skill training centres and industry collaborative innovation units.

**Knowledge Resource Centre:**

Knowledge Resource Centre (KRC) is a hub to display the innovative projects done by our students. The KRC has a specialized collection of information resources comprising soft copies of projects and technical reports.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

**4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)**

**Response:** 14.07

**4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
1.84	1.93	84.13	6.80	56.09

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

#### Response:

Our institution has well equipped, spacious library of area 400 sq.m with the rich collection of engineering books, national, international journals, periodicals and magazines in science, engineering, management, and technology both printed and e-copies. The central library subscribes to national and international journals in print and e-journals. The reading room facility is available for students.

Our library has 23,652 volumes, 49 national journals, 65 international journals, magazines and newspapers for the students and the faculty members reference. Our digital library is equipped with 6 systems with 100 Mbps internet speed. DELNET journals and other E-Resources can be accessed through Digital library. Remote access is also provided for the students and faculty members to use E-Resources like NDLI library, NPTEL videos, E-ShodhSindhu (Higher Education Electronic Resources) and shodhganga (Reservoir of Indian Theses).

#### ILMS - Library Automation

The key objective of library automation is to offer a quality service to the readers and to establish an efficient book storage system. Our institution library is fully automated by INSPRO PLUS ERP 6.9. It has the following modules.

- User In/Out Report
- Book allocation report
- Book issue return – Transaction report
- Transaction report
- Book circulation report
- Invoice report
- Library information
- Transfer report
- Title, author, and publisher wise report
- Fine Report
- Book statistics

- Library book and journal details
- Cumulative issued/returned report
- Utilization report
- Journal report
- Individual student book circulation report
- Stock analyzer report
- Special and rare collections
- Bill wise Report

### Subscription to E-Resources

Our institution central library has various institutional memberships for e-resources and e-journals. Our library has subscribed for the following e-resources.

#### DELNET

- E- Journals (3528 journals)
- E- Books (1907 books)
- NDLI
- E-ShodhSindhu

### ICT Academy

Our college is an institutional member of ICT Academy. Our faculty members and students can access ICT Academy journals.

### Amount spent on books purchase and journals

The average expenditure for the purchase of books and journals is 4.67 lakhs over the past five years.

### Per day usage of library

We can generate and print more number of reports like books issued and return reports, book reports categorized by accession number, author, subject, department, supplier, publisher, and title, and availability. Monthly reports and yearly report facility are also available in the library management system. The module records an average of 120 and above users per day.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 4.3 IT Infrastructure

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

**Response:**

Institution regularly updates its IT facilities and affords adequate bandwidth for internet connection. Our institution is facilitated with wired and wireless network connectivity for administration and academic utilization. The computer laboratories are equipped with revolutionary technology and are available for all the staffs and students. The college has well equipped internet facility working with 24/7. IT facilities in our institution have been updated regularly and also new IT equipment has been purchased to satisfy the requirements.

Up to the year 2017, 170 desktop systems (I3 processor, Dual Core, 2 & 4 GB RAM, 500 GB SAGATE HDD) were deployed in the computer labs across the campus for student's practical sessions. Additionally, mouse/RAM, as well as other hardware components, were purchased regularly to maintain computer laboratories. In the year 2018 - 20, 43 desktop systems (with i5 Processor, i7 Processor, 1 TB Hard Disk, 8 GB RAM) was purchased to upgrade the computer lab. This lab is used for Mobile application, Internet programming lab and Project work. In the year 2020, one server purchased for data storage and maintenance purpose and one firewall purchased for security and protection, which ensures threat protection (Spyware, denial of service attacks etc.). VoIP security, VLAN, content filtering, packet filtering, URL blocking, anti-spam, anti-virus and intrusion detection and prevention and other are endorsed to securitize. Effective CCTV cameras are also installed to keep an eye everywhere.

The Wifi bandwidth is enhanced from 50 Mbps to 100 Mbps from the year 2020 onwards for the effective administration and academic activities. The internet can be accessed by 176 desktop computers through LAN. The institution has licensed software like Oracle, Globarena, Delnet, Windows server - Device CAL, Windows Server Standard Core, DELL Power EDGE T30 Server etc. IT related needs of the institution are handled by a separate team, including software development, hardware, networking, website design and hosting, and e-mail and SMS solutions.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

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

**Response:** 2.9

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

Response: 176

File Description	Document
Upload supporting document	<a href="#">View Document</a>

**4.4 Maintenance of Campus Infrastructure**



**4.4.1 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: 9****4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
51.49	12.69	8.12	18.87	5.31

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

**Response:** 90.52

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
431	372	360	302	301

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

#### 5.1.2 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:** D. 1 of the above

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

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

**Response:** 72.07

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

2021-22	2020-21	2019-20	2018-19	2017-18
320	295	289	269	233

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

#### 5.1.4 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:** B. Any 3 of the above

File Description	Document
Upload supporting document	<a href="#">View Document</a>

## 5.2 Student Progression

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

**Response:** 56.7

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

2021-22	2020-21	2019-20	2018-19	2017-18
53	74	56	42	33

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

2021-22	2020-21	2019-20	2018-19	2017-18
103	112	103	65	72

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

### 5.2.2 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: 100

#### 5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

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

#### 5.2.2.2 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

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

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 5.3 Student Participation and Activities

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

Response: 16

#### 5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

*national/international level (award for a team event should be counted as one) year wise during the last five years*

2021-22	2020-21	2019-20	2018-19	2017-18
4	6	4	1	1

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

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

**Response:** 21.8

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

2021-22	2020-21	2019-20	2018-19	2017-18
21	20	23	24	21

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 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 Institution has registered Alumni Association. Alumni Association is one of the strongest assets of an institution. It is an association of graduates or former students (Alumni). It is formed to facilitate and encourage alumni to contribute to the institute's efforts for achieving excellence in academics and research through allocating / raising funds and/or sharing knowledge & expertise of its members in areas pertaining to academics, infrastructure, industry interactions and any other area that the alumni and the institute feel appropriate and to offer expertise, effort and/ or financial resources to benefit all. Alumni bring laurels to

their juniors in many ways through the Solamalai College of Engineering Alumni Association lead by our Alumnus. Alumni Association is effectively functioning from 2016 onwards in the institute to build strong bonding with the alumni for the growth and development of the institution. The alumni meet was conducted once in a year. All degree certificate holders of the University studied in SOLAMALAI COLLEGE OF ENGINEERING and teaching faculty (who are Alumnus) of Solamalai College of Engineering can become members.

The following are the activities carried out with the help of Alumni,

#### **Mentorship:**

Alumni used to actively mentor their juniors in their technical aspects of their expertise. They use to share various motivational information through their experience in real world. The present students in college will be guided through them and got encouraged that they can also flourish in various fields

#### **Curriculum Enrichment:**

Alumni are actively contributing to the curricular gap identification and development of Add on course and value added course modules.

#### **Alumni Interaction Programmes:**

The department alumni coordinators should organizing alumni interaction programmes twice in a year to motivate current students about the employability and educational opportunities abroad. Alumnus shares their experience to their juniors.

#### **Industry Connect:**

Alumni help in establishing MoUs with industries. The alumni those who are entrepreneurs arranges industrial visits to the students and provide inputs on how to start a new venture to turning them into job providers. The Alumni extend their support for student internship.

#### **As a Recruiter:**

Our Alumni are in top positions in MNC's and reputed industries. The opportunities available in their organization are shared with the students and eligible students were recruited with the help of alumni.

#### **As an Entrepreneur:**

Successful alumni entrepreneurs are motivating the budding technocrats to become Entrepreneurs by sharing their experience. Barriers and successful strategies shared by them give a clear idea for the students to enhance their skills to become successful Entrepreneurs.

#### **Research and consultancy:**

To Fuel the research and consultancy works in various fields like Engineering, automation, software, etc. Our Alumni members are extending their help to the departments by directing the entrepreneurs to carry out consultancy works in various sectors of the engineering stream.

**Generosity:**

The Alumni also plays a significant role in contributing scholarships to deserving students

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

**6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance**

**Response:**

**Vision:**

To be a premier institute for higher education, nurturing youth and other stakeholders as global, socially responsible citizens through academic, technical & innovative excellence and inclusivity.

**Mission:**

- To create an ecosystem of academic, research & innovation and skilled learning.
- To mentor and facilitate inclusive learners to acquire academic excellence and application.
- To encourage a mindset of inquiry towards critical thinking and creativity.
- To Upskill and encourage transformation of learners as lifelong learners and responsible change makers.
- To promote the above through social immersion, community engagement, technical upgradation and industry – institute interaction.

**The Nature of Governance:**

The institute has a decentralized decision-making framework that is focused on building a strong academic foundation through a methodical and participatory teaching-learning process. The Governing Council meets to discuss all major decisions and strategies pertaining to academic and non-academic activities and assignments. The Institute is on its way to victory, guided by a well-constructed Governing Council that includes individuals from both academic and non-academic backgrounds. The Principal is the institute's chief authority, responsible for carrying out the Governing Council's decisions. He has the power to make decisions and plans for both academic and non-academic activities.

The Principal, in collaboration with the HODs of several departments, effectively implements the Governing Council's recommendations. The principal has regular meetings during which concerns relating to academic and non-academic activities are discussed and communicated to all staff members through their respective HODs. Following that, the HOD's organize meetings with the department staff members, and all academic tasks are equitably distributed among all faculty members to ensure proper implementation of the institute's strategies. The principal makes sure that everyone on the staff, both teachers and non-teaching staffs, is involved in making decisions, which makes them more accountable.

For factual remarks submitted by students, the individual discipline heads and the principal take the necessary actions. The performance appraisal system worked well, and the heads of the department were curious about how well the department worked.

**Perspective Plans:**



In line with its vision and objective, the institute is focusing on delivering holistic education in a variety of subjects by motivating and inspiring students through quality educational services, appropriate infrastructure, and placement possibilities. With the following strategic plans, the institute is on its way to success.

- NAAC and NBA accredited institute
- Establishing innovation Centres
- Establishing incubation Centres
- Getting Autonomous status

Participation of the teachers in the decision-making bodies the head of the institution is regularly organizing the meetings in connection with IQAC, Governing Council, and regular meetings with HODs to discuss policies, routine activities and other issues. All the decisions are disseminated to teachers by their respective heads and implemented through the effective participation of teachers.

Teaching staff members are bridging the gap between the management and students. They are the only source having direct communication with management and students. Their involvement and participation in decision making plays a vital role in directing everyone towards the vision and mission of the institute. Teachers are identifying the right students as the representatives for various committees and motivating them towards organizing various events at the department level as well as college level.

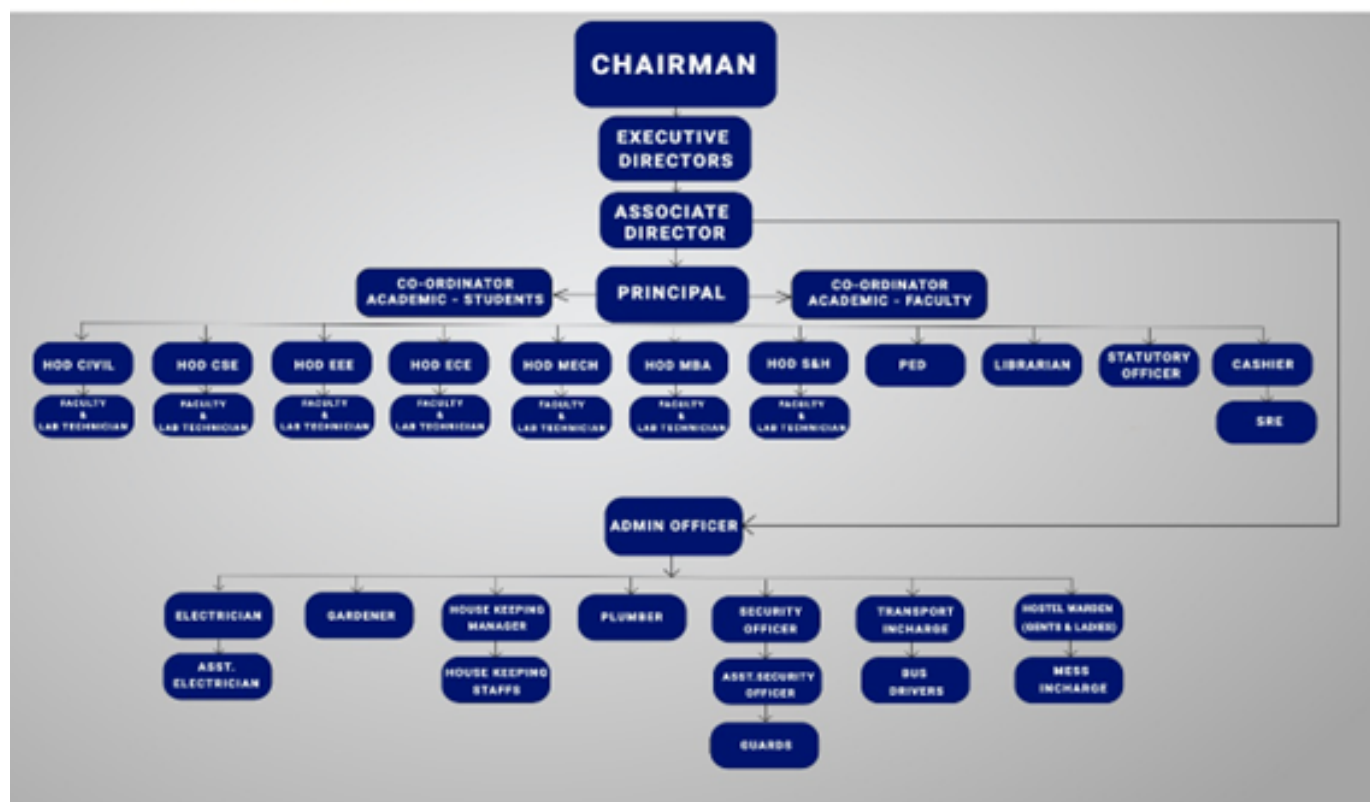
File Description	Document
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Provide Link for Additional information	<a href="#">View Document</a>

## 6.2 Strategy Development and Deployment

**6.2.1 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc**

**Response:**

## ORGANIZATIONAL CHART



The chairman and Executive Directors of the institute has apical power in the institute's organization structure, allowing him to make any policy-related decisions. The principal is entirely responsible for the institute's academic administration. HODs have decision-making authority over their departments. The institution's administrative officer oversees day-to-day operations, including purchasing and maintaining equipment, allocating funds according to the year's budget, and submitting appropriate documentation to the auditing committee, among other things.

The Governing Council is quite effective, and it has established standards and procedures for hiring teaching and non-teaching faculty, as well as administrative and support employees. The institute's service rules have been drafted to include all relevant elements and to provide guidance to management and all employees in making important decisions.

During the beginning of the academic year, Heads of Departments are asked to submit their department's annual budget under various headings, which are then consolidated and submitted to the Governing Council for approval by administrative officers.

Once a week, the Principal hosts a meeting with the department heads to discuss the academic progress and administrative activities of the school. All required information is provided to faculty members at their respective department meetings, and the meeting minutes are correctly communicated.

Different cells and committees are formed, and all curricular, co-curricular, and extracurricular activities are carried out appropriately. This guarantees that policies are carried out in a transparent manner. The operations of several cells are overseen by interested faculty members as well as interested students.

**To Ensure Academic Administration, the HoDs Tasks and Responsibilities are listed below:**

- Ensuring that policy decisions are implemented.
- Monitoring the department's day-to-day activities.
- Preparing budgets in accordance with the department's road map.
- Allocating subjects based on domain knowledge by obtaining faculty members' consent.
- Assigning roles and responsibilities to staff members other than academic responsibilities.
- Ensuring that the institute's performance appraisal mechanism is in place.
- At the end of each semester, the institution collects feedback from students and holds parent meetings to better understand the expectations of both students and parents.
- Students can post their comments and criticisms in a suggestion box located in front of the principal's office.
- They can also make representations to the respective Class Advisor, Mentors, HoD, and Principal regarding any issues.

According to Anna University's instructions, a class committee meeting is held before every Internal Assessment Test to collect academic comments from students.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

### 6.2.2 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
Upload supporting document	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures and Performance Appraisal System for teaching and non-teaching staff

**Response:**

- The institute offers statutory and non-statutory welfare benefits to both teaching and non-teaching employees.
- Some of the welfare services are also enjoyed by students.
- Statutory benefits provided to all the employees.
- PF contributions by the Employee and an equal contribution by the Employer.
- CL, Medical leave and maternity leave.

- Group Insurance.

#### **Non Statutory Benefits to Teaching Staff:**

- The institute helps fund assistance & attendance for teaching staffs who attended conferences, seminars, and workshops hosted by other institutions and professional organizations.
- Permissions, special permissions, and summer and winter holidays are offered to teaching faculty members.
- Faculty members who use college bus transportation services receive a 100% discount.
- All faculties have access to a separate system with internet access to further their education.
- The wards of teaching faculty members are eligible for tuition discounts when pursuing an Engineering or MBA degree at our institution.
- Free food is provided for faculty members staying in the hostel.
- During annual day, management recognizes and honors faculty members who achieve 100 percent results every semester.

#### **Non Statutory Benefits to Non- Teaching Staff Other than the Above:**

- Non-teaching staff employees are given with uniforms.
- The wards of non-teaching faculty members are eligible for tuition discounts when pursuing an engineering or MBA degree at our institution.

#### **Benefits provided to Students:**

- Group Personal Accident Insurance - This insurance benefit is available to all students, teaching and non-teaching personnel, and support employees.
- Exceptional students are admitted with additional considerations. Students who meet the sports quota are eligible for free tuition and housing at our college.

#### **Institutions Performance Appraisal System for teaching and non-teaching staff**

Yearly, the performance of teaching and non-teaching staff members is evaluated through a performance appraisal system. The institute has a well-organized method for evaluating employee performance. The Chief advisor and Executive Director is the last arbiter of the teaching and non-teaching staff's performance. The performance appraisal method is used to determine promotions, awards, and appreciation for all employees. This approach serves as a motivator for employees to work with greater zeal and improves the institute's reputation by giving a better career path for employees.

#### **Parameters of Performance Appraisal – Teaching Staff:**

- No. of subjects handled, students feedback and university results.
- Participation in seminars, conferences, workshops and FDPs.
- Organizing seminars, conferences, workshops and FDPs.
- Papers presented in conferences.
- Papers published in national and international journals.
- Books published by faculty members.
- Attending NPTEL Courses.
- Additional responsibilities held by the faculty members.

- Proposals submitted to funding agencies.
- Value added programs conducted during the academic year.
- Rating by HODs, Principal and Management.

### Parameters of Performance Appraisal – Non-Teaching Staff

Non-teaching staff employees are given honours and recognitions based on their performance, technical skill, lab and record management, timeliness, absenteeism, participation in college yearly events, and so on. At the end of each academic year, the institute collects performance appraisal forms from faculty members and sends them to their respective HODs. After taking into account the HODs' comments, the forms are sent to the Principal and he forwards it for final approval by the management for action. Every faculty member will have the opportunity to reflect on his or her performance and try to improve it in the coming years. T

File Description	Document
Upload Additional information	<a href="#">View Document</a>

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

**Response:** 41.42

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

2021-22	2020-21	2019-20	2018-19	2017-18
43	33	56	61	58

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

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

**Response:** 65.37

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

2021-22	2020-21	2019-20	2018-19	2017-18
88	86	87	86	89

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

2021-22	2020-21	2019-20	2018-19	2017-18
13	11	13	11	13

File Description	Document
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

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

**Response:**

**Mobilization:**

1. Student Fees, Anna University, Government and Non-Government Agencies.
2. Arunramkumar Educational Trust.
3. Interest on Corpus Fund.
4. Additional funding sanctioned from various funding agencies such as AICTE, etc., for research and seminar proposals submitted by various departments.
5. Funds received from the industries for consultancy work.

**Budget Planning:**

Heads of the departments would submit the budget requirements to the Principal, at the beginning of every financial year. Budget committee analyzes the requirement of each department and prepares a Consolidated Budget and forwards it to the Management through the Principal for approval. The Management allocates the funds under various heads such as upgradation of library resources, computers, network facility, sports

facilities, publication incentives, salary, placement, campus maintenance, extension activities, etc. based on the need.

#### **Utilization:**

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

#### **Financial Audit:**

The Finance team finally audits the documents every financial year. The audits are being carried out by an external auditor. The Principal, with the assistance of the Administrative Officer, is preparing the consolidated budget proposal and submitting it to the Governing Council for approval, based on the budget submitted by the HODs of all departments and other appropriate authorities of the institute. The budget is adopted by the Governing Council after taking into account the previous year's income and expenditure statement as well as the activities scheduled for the following academic year. The institute has an effective internal and external audit mechanism in place to verify income and expenditure statements, and the comprehensive audit report is sent to management through the Principal.

#### **Internal Audit:**

Collection of tuition fees, salary distribution, tax payment, loan distribution, purchase orders for all necessary materials, and maintenance are all handled by the finance department, which is led by the administrative officer (Finance). The institution is quite conscientious about keeping accurate records. The administrative officer additionally double-checks budget use records on a regular basis.

#### **External Audit:**

The management team appoints the external auditor. He comes to our office on a regular basis to audit our books of finances. The audit report is provided to Management for review by the auditor when the audit is completed. Every year in March, an external audit is performed. There is no adverse remark on the institution's finances as of the date of the previous external audit. Every year, the organization files its income tax returns well in advance of the deadline.

#### **Utilization of funds**

During the commencement of every Academic Year, the budget is prepared by the Department Budget Incharge by considering various expenses heads well in advance. Some of the key highlighting heads considered while preparing budget are Repair Maintenance of Consumables, Parents Meeting, Programme Participation by Teaching and Non-Teaching Community, Faculty Development Programme, Professional Bodies, Travelling Expenses etc., The prepared budget is forwarded to the Principal, through formal consent by the department head and at the same time in consultation with Department Faculty Members as well.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 6.5 Internal Quality Assurance System

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

### Response:

The IQAC department was established at the institution to promote common transparent incremental development and constant improvement across all departments, and it is adopting a number of steps to construct various quality assurance measures.

### Orientation Programme for Students:

The induction programme is an annual event that takes place at the start of each academic year for all admitted students. It's a promising start because the programme ensures that the admitted students chose the right college choice. The institute has its own orientation timetable, which assists students in preparing for a successful profession after completing their courses. When the college hosts an orientation programme, the following are the main goals of the institute.

- Introducing students to college life
- Integrating them into the institute atmosphere
- Allowing students to network with faculty members, senior students, alumni students, and their classmates
- Creating a career path and defining goals
- Recognizing the internal and external environments and pursuing success
- Recognizing students' strengths and capabilities, as well as scheduling academic and non-academic activities to match their needs.
- The SIP (Students Induction Program) at the institute lays the groundwork and leaves an indelible effect on new students and their parents. This orientation program's overall result is that it bridges the gap between instructors and students while also ensuring strong communication among professors, students, and alumni.

### Skill Development Program for Students:

The institute adheres to strict student skill development programmes that begin in the first semester of each batch. The institute's objective is to prepare rural students for successful jobs, thus these programmes are geared toward that goal. During their 2 or 4 years of education, students will participate in a skill development programme established by the training and placement cell with the help of IQAC.

- Communication skills
- Programming language skills



- Aptitude training
- Group Discussion
- Mock HR Interview
- Industry-specific training
- General counseling programme

To ensure knowledge enhancement through guest lectures, industrial visits, and other means, the institute encourages all departments to sign memorandums of understanding (MOUs) with their respective domains of industry. Students receive exposure to industry norms and prepare for good placement through these programmes. Students are also given continuing aid in preparing for competitive examinations such as UPSC/TNPSC, Department Exams, Banking Exams, and so on.

#### **Student IGNITE Programme:**

Student Ignite programmes give a forum for students to present new ideas, new instructional pedagogies, create interest, and push students to action that is particular to student needs. Student ignite are held at the department level to share new ideas in the subject and enhance teaching methods. Students are encouraged to participate in various professional organizations and other institutions' initiatives. Every student should deliver a presentation and discuss the details of the programmes they attended.

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.

<b>File Description</b>	<b>Document</b>
Upload Additional information	<a href="#">View Document</a>

#### **6.5.2 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)/ membership of international networks**
- 3.Participation in NIRF**
- 4.any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

**Response:** C. Any 2 of the above

<b>File Description</b>	<b>Document</b>
Upload supporting document	<a href="#">View Document</a>
Institutional data in the prescribed format	<a href="#">View Document</a>

## 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 and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years**

**Response:**

**Promotion of gender equity**

To promote gender equity, our institution encourages all students to participate in various technical workshops, innovative project contests, seminars, and the Smart India Hackathon without any gender discrimination. Among the institution's faculty members, 50 % are women who play **vital roles in major positions** such as principal, head of the departments, and coordinators of various clubs and Centre activities.

**Surveillance system:**

The institution placed high-resolution CCTV 24/7 surveillance cameras strategically throughout the campus for security and to avoid undesirable circumstances. Through these cameras, the entry of undesirable elements is highly monitored.

**Hostel:**

On campus, under the direction of the warden, a set of clearly established rules is used to oversee student behavior.

**Fire Extinguisher:**

Fire extinguishers are placed on our campus to control fires under emergency conditions.

**Counseling and the Mentor-Mentee System:**

To redress the problems faced by the students, to concentrate on education, motivation, and treating depression, a dedicated student counselor is appointed. The mentor-mentee system is a three-tiered system with effective professional and inter-professional working relationships to support mentees' learning.

**Kavalan App:**

All female students and staff are instructed to download the Kavalan-SSOS app, which is a component of the Tamil Nadu State Police Master Control Room project and allows users to rapidly request police assistance in an emergency.

**Complaint Box:**

Students can file their complaints in a box located in the administrative block.

**Mess and canteen:**

There is a separate area for girls in the mess and canteen at the institution, it allows the female students to feel free and at ease throughout their lunch and break periods.

**Celebrate or organise national and international commemorative days, events, and festivals:****Republic Day:**

To commemorate the day, the students and staff assembled on college ground in front of the VOC Block to celebrate the republic day by hoisting the national flag on January 26th every year. Distributing national flags fosters a sense of pride.

**Women's Day:**

International Women's Day is celebrated every year on March 8th to honor the accomplishments of female students, female teaching faculties, and female non-teaching faculties, as well as to respect and appreciate their contributions.

**International Yoga Day:**

The 21st of June has been observed as International Day of Yoga, also known as Yoga Day. The purpose of this day is to raise awareness of the psychological, spiritual and physical advantages of practicing yoga.

**Independence Day:**

The National flag is being hoisted on the college premises to commemorate this day. Faculty, non-teaching faculty and students gathered on August 15th to commemorate this event. National flags are distributed to promote a sense of pride.

**Teachers' Day:**

Teachers' Day is observed in college on 5th September to recognize teachers and celebrations to honor them for their special contributions in a specific field, area, or the community in general.

**Engineer's Day:**

On September 15, Engineer's Day is observed to mark the birth anniversary of Indian civil engineer Sir Mokshagundam Visvesvaraya. On this day, students participate in the Innovative Project Expo organized by the Institution

File Description	Document
Upload Additional information	<a href="#">View Document</a>

**7.1.2 The Institution has facilities and initiatives for**

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

**Response:** A. 4 or All of the above

File Description	Document
Upload supporting document	<a href="#">View Document</a>

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

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

**Response:** A. All of the above

File Description	Document
Upload supporting document	<a href="#">View Document</a>

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

**Response:**

In order to ensure that the campus offers an inclusive environment that can meet the demands of all diversities, the Institute has implemented a number of actions. The institution takes on numerous efforts by planning various events to educate students and staff about their constitutional duties and rights, as well as about their own values and civic obligations. The college makes sure that the students engage in all such activities with great enthusiasm.

**Linguistic and Cultural Diversities:**

The College has made sincere efforts to reinforce the significance of the classical language Tamil and to make learning of English a fun. There is a "Literary club" in the college, which is active and serves to improve the usage of languages and it involves the students from heterogeneous backgrounds to take part in its activities.

Every year, Pongal celebrations are organised on campus to strengthen the state's cultural identity, and students participate by making traditional "Pongal" as a sign of gratitude to Mother Nature.

Every year, all the college's facilities are cleansed for the ceremonial "Ayudha Pooja" festival.

Every year, Women's Day is observed in a very big fashion. As part of the commemoration of Women's Day, numerous programmes are organised.

Every year, we celebrate "Ganesh Chaturthi" on our campus. The students and faculty members celebrated the festival with gaiety and grandeur. The professors at our institution ask Lord Ganesha to bless their pupils abundantly. We had rangoli and garlands in front of Lord Ganesha's idol.

### **Communal and Socio-economic Diversities:**

The college hosts distinctive events like "**Half- Marathon- Run for Change**" that unite the diverse student populations. The institution hosts the blood donation camp and the collected blood is distributed to the nearby hospitals. The college conducts free medical camps not only for its employees but also for the benefit of the people living in the nearby villages.

### **National Identities and Symbols:**

The college has always taken various direct and indirect steps to promote awareness of various national identities and symbols. Every year **Republic Day** is celebrated on 26th of January and **Independence Day** on 15th of August and we also celebrate **Gandhi Jayanthi**.

### **Human Value:**

We are inculcating the practice of life skills and values in the following ways through club activities:

- Find new ways of thinking and problem- solving
- Avoid blaming others by taking responsibilities
- Attaining skill to develop self-confidence
- Build self-awareness
- Build the skill to appreciate others
- Evaluate and make decisions

### **Professional Ethics:**

Professional ethics are values that manage the attitude of a person or group in a corporate/professional environment.

We are conducting a professional development course for third- semester students as a 30-hour programme. It instils the moral values among the students in a variety of ways, including positive thinking, self- esteem, self-worth, self -confidence, goal setting, time management, empathy, negotiation, leadership quality and also social responsibility.

File Description	Document
Upload Additional information	<a href="#">View Document</a>

## 7.2 Best Practices

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

**Response:**

#### **BEST PRACTICE: 1**

##### **Title of the Practice**

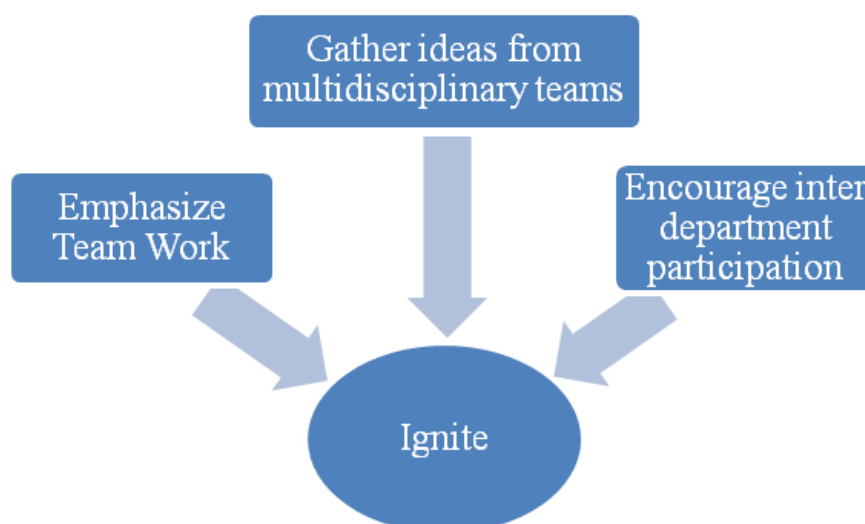
##### **IGNITE PROGRAM- Sharing of Knowledge and Continuous Learning**

##### **Objectives of the Practice**

The goal of the ignite programme is to upgrade the knowledge among both students and faculty and to create awareness of the latest developments.

##### **The Context**

Our college mission is to create a positive and enabling learning environment to pursue the academic excellence. To achieve the mission, our management decided to conduct an ignite programme for both faculties and students.



Initially, the Ignite programme was conducted every Thursday for faculties. As a result, some issues have arisen during the implementation of this Ignite programme, including the following:

- Neither students nor faculty expressed an interest in participating ignite programme.

- Lack of inter-departmental participation.

To resolve these issues, after discussion with higher officials, this ignite programme is planned to be conducted once a month for faculty. At that time, faculties from various departments share the knowledge acquired from various programmes like seminars, workshops, FDPs, etc. For students, it is planned to conduct on every Wednesday which is included in the time table.

### **The Practice**

In our college, the Ignite programme is conducted for both students and faculty members to enhance their learning.

- The Ignite programme for faculty will be conducted on Thursday in the last week of every month. Faculty members are asked to present the topics in the Ignite programme related to outside participation by power point presentation with supporting videos or photos. Faculty members who have not attended any events outside are also expected to present something exciting related to their department or any domain of engineering.
- For students, the ignite programme will be conducted in regular timetable every week on Wednesday (4.10 p.m.to 5.00 p.m.). The duration of the Ignite programme is 50 minutes.

Presentation	20 Minutes
Video	10 Minutes
Opportunities	15 Minutes
Queries	5 Minutes

### **Evidence of Success**

- Obedience, effective communication, and improved academic performance are the prominent impacts of the ignite program.
- Students are participating in more innovation projects and events both inside and outside of their colleges.
- Healthy communication between the faculty members.
- Faculties from various departments are involved in doing innovative projects.

### **Problems Encountered and Resources Required**

- Some of the students, though academically capable, could not afford the cost of the training due to their poor economic backgrounds. The college supports these students by extending financial assistance.
- Students from rural backgrounds may have good technical skills but may lack communication skills and other required skills, so special classes are provided to such students to boost their confidence levels and face the challenges of the world.
- Faculty development programmes are conducted to update the faculty with new, evolving technologies so that they are prepared to train the students.

### **BEST PRACTICE: 2**

#### **Title of the Practice**

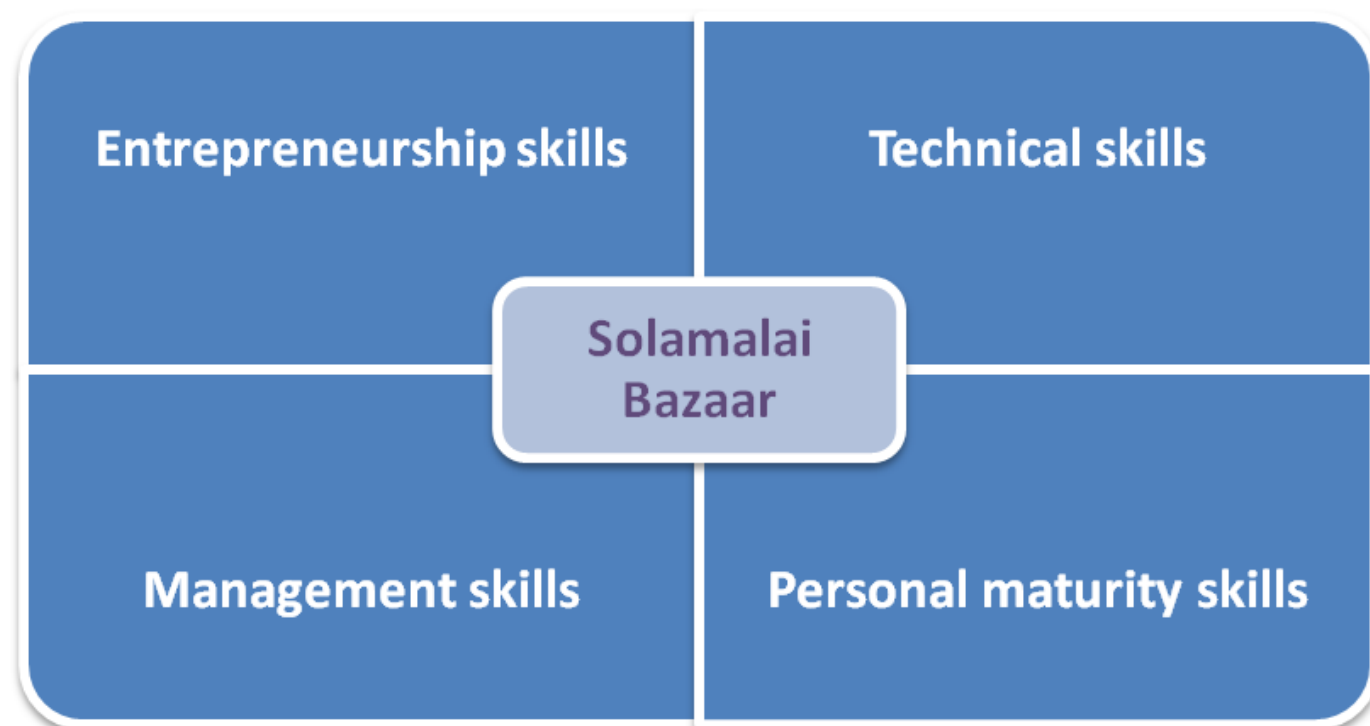
## SOLAMALAI BAZAAR – Enhance the entrepreneurial skill

### Objectives of the Practice

The aim of this programme is to develop and strengthen the entrepreneurial quality, to motivate them for achievement, and to enable participants to be independent, capable, and promising businessmen.

### The Context

Education must incorporate entrepreneurship in the same way that it incorporates science, maths, technology, and language. Entrepreneurship is a way of thinking and an approach that identifies new opportunities and solves problems. It is not constrained by the present and finds applicability in the future. It is vital for students to develop **entrepreneurial rational skills** right from their learning age.



### The Practice

Solamalai Institutions organized a mega-grand event, namely the Solamalai Bazaar, from the academic year 2018-2019. It was first initiated and organised by the Department of Management Studies. Following that, engineering and polytechnic students expressed an interest in taking part in those events. So, our management has decided to conduct this event for both engineering and management students in an open space.

Sponsors were collected from different sources, stalls were allocated based on various categories. The management encouraged to organise technical-based stalls and activity-based stalls. Students from various Arts and Science Colleges, Engineering colleges, and Polytechnic colleges were participated in this event. Women entrepreneurs and marketing personnel from various companies voluntarily participated.

Prizes were distributed for each category of event and Overall Championship (Both Winner and Runner) has been awarded and certificates were distributed in the valedictory function.



**Evidence of Success**

- The student's team coordination, leadership skills and self-confidence improve after participating in this event.
- Through this event, the student can convert their technical ideas into projects.
- Our management visits each stall and awarded the cash to the best stall.
- This mega- event benefits not only our students, but also all entrepreneurs in this field.
- Marketing strategies in their business activities and improved their technical skills
- Through this event, the student can learn about MSME (Micro, Small and Medium Enterprise) and its features.
- Entrepreneurial skills, which include various skill sets such as leadership, business management, time management, creative thinking and problem-solving are improved through this event.

**Problems Encountered and Resources Required**

- Our engineering students are so interested in participating in this event to display their innovative ideas in various stalls. So, our management decides to conduct this bazaar for both management and engineering students in an open space every year.
- Some of the students were not showing their interest in the event due to lack of communication and confidence. Our faculty members / mentors encourage and motivate those students to actively participate in any event.

File Description	Document
Any other relevant information	<a href="#">View Document</a>
Best practices as hosted on the Institutional website	<a href="#">View Document</a>

**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:****Institution Distinctiveness****INDUSTRY-DRIVEN INNOVATION**

For the development of institutions and students, enhanced collaboration between institutions and industry is the need of the hour. These collaborations enable us to identify the industry needs and maintain quality within academic institutes. Ultimately, this allows us to make curriculum changes, adding value-added courses and giving students exposure to industry skills and subsequently placements. The industry also needs support from academic institutions to resolve its problems, as well as the right people with the right

skill set. With the rapid pace of advancements in technology, there is a need to prepare our students for the requirements of industry by exposing them to innovative ideas and advanced technologies and methodologies. To strengthen this direction, Solamalai College of Engineering has a Centre of Excellence to enhance the technical skills of the students.

To inculcate innovative learning among students, the institute has also organised a programme with different industrial domain experts to present the recent trends and methodologies adopted in competitive industries. The main objective of the programme is to discover innovative solutions for different problems encountered by industries. The best innovative seed or idea is transformed into a prototype model. The winners will be **sponsored by management for industry mentoring and internships** for further project development. The students were also sponsored through L. Kuppammal **and V. Loganatha Pillai Foundation Scholarship Scheme** to present the model or their innovative ideas to other colleges or industry expos.

In this journey, our Solamalai College of Engineering is conducting an **industry conclave (in offline and online modes) and the innovative project Expo.**

The 2019 **Industry Conference** was held on November 13, 2019 at the College Auditorium.

In the Panel Discussion I, aptly themed "**A Roadmap to Your Job: An Eye-Opener for Every Engineer**" for Engineering Students, and Mr. G. Kalyana Sundaram, CEO, Great Innovus Solutions, Dr. S. Ravichandran, Regional Service Head, TVS, and Mr. Pradhap Sethu, Director, Win Consultancy, were the speakers.

In the Panel Discussion II, aptly themed "**A LABOR OR A TECHNICIAN—SECRETS OF GETTING A HIGHER SALARY AFTER POLYTECHNIC EDUCATION,**" for Polytechnic students, Mr. Ponkumar, MD, Brand Automation, Mr. M. Nambikrishnan, SE, HCL Technologies, and Mr. J. Sivakumar, AGM, JK Fenner (India) Ltd. were the speakers.

In the Panel Discussion III, aptly themed "**Right Employee, Right Skills,**" for MBA and ARTS students, Mrs. Umathenappan, Senior HR, Solamalai Enterprises; Mr. R. Keerthi Vasan, CEO, Sharan Systems; and Mr. C. Madan, Senior Manager, Thangamayil Jewellery Ltd. were the speakers.

The afternoon workshop activity was appropriately themed "CONNECT TO CREATE" for all participants, and the speakers were Mr. P. Thanikavel Pandian, Director, Vision20 plus, and Mr. A. Karthick, Founder, Tamizha Software Solutions.

Solamalai College of Engineering organised an event called "Virtual Industry Conclave 2020" under the title "**The Future of Learning and Development**" for various Engineering College students. The Students from various institutions took part in the event and gathered useful information from speakers. Students from various disciplines gathered to discuss current job opportunities for young people on the market. The Students should fine-tune their basic skills (technical and non-technical) related to current industry requirements. Every individual should increase their contacts. At the initial stage, grasp the opportunity offered by a small company. The main objective of the programme is to discover innovative solutions for different problems encountered by industries.

Every year, the Industry Institute and Interaction Cell organise a student-led innovative project expo at our college. Following that, on September 14th, we hold Engineers Day and the Innovative Project Expo. Our

college students eagerly participated, and they have displayed their projects at this event. Every year, over 100 projects are submitted to this event. The purpose of this event is to encourage students to take part in the creative project competition so they can expand their innovative ideas, explore their knowledge, and also find an innovative solution to many issues that the industries will face and conclude during the Industry Conclave.

**The winners will be sponsored by the institution for industry mentoring and internships for further project development. The institution will cover the entire cost of the internship and industry mentoring, and it will assist students in converting their idea or pitch into a real-time project that will make a significant contribution to society.** Every year, innovative project contest winners are sponsored by the institution for industry mentoring and internships at reputed companies for further project development.

The purpose of the L. Kuppammal and V. Loganatha Pillai Foundation Scholarship Scheme for Students is to increase the participation in paper presentation contests, symposiums, workshops, international conferences, professional society competitions, ICT Academy events, young Indian competitions, and so on, as well as participation in innovative project contests at reputable engineering colleges to present their innovative ideas and successful projects. This scheme sponsored the students who were the winners of the Innovative Project Expo with their excellent ideas and interest in start-up companies.

### **L. Kuppammal and V. Loganatha Pillai Foundation Scholarship Scheme Details**

**Event 1: Student** participation in a paper presentation contest, a symposium, a workshop, an international conference organised by reputed engineering colleges, professional society competitions, ICT Academy events, young Indian competitions, etc.

#### **Student Scholarships:**

- within a 250 km radius, one-way travel fare with a registration fee of up to Rs. 1200
- Two-way travel fare with registration fee up to Rs. 500 within a 50-km radius

**Event 2: Students'** participation in an innovative project contest at reputed engineering colleges like IITs, NITs, MIT, BITS Pilani, etc.

#### **Student Scholarships:**

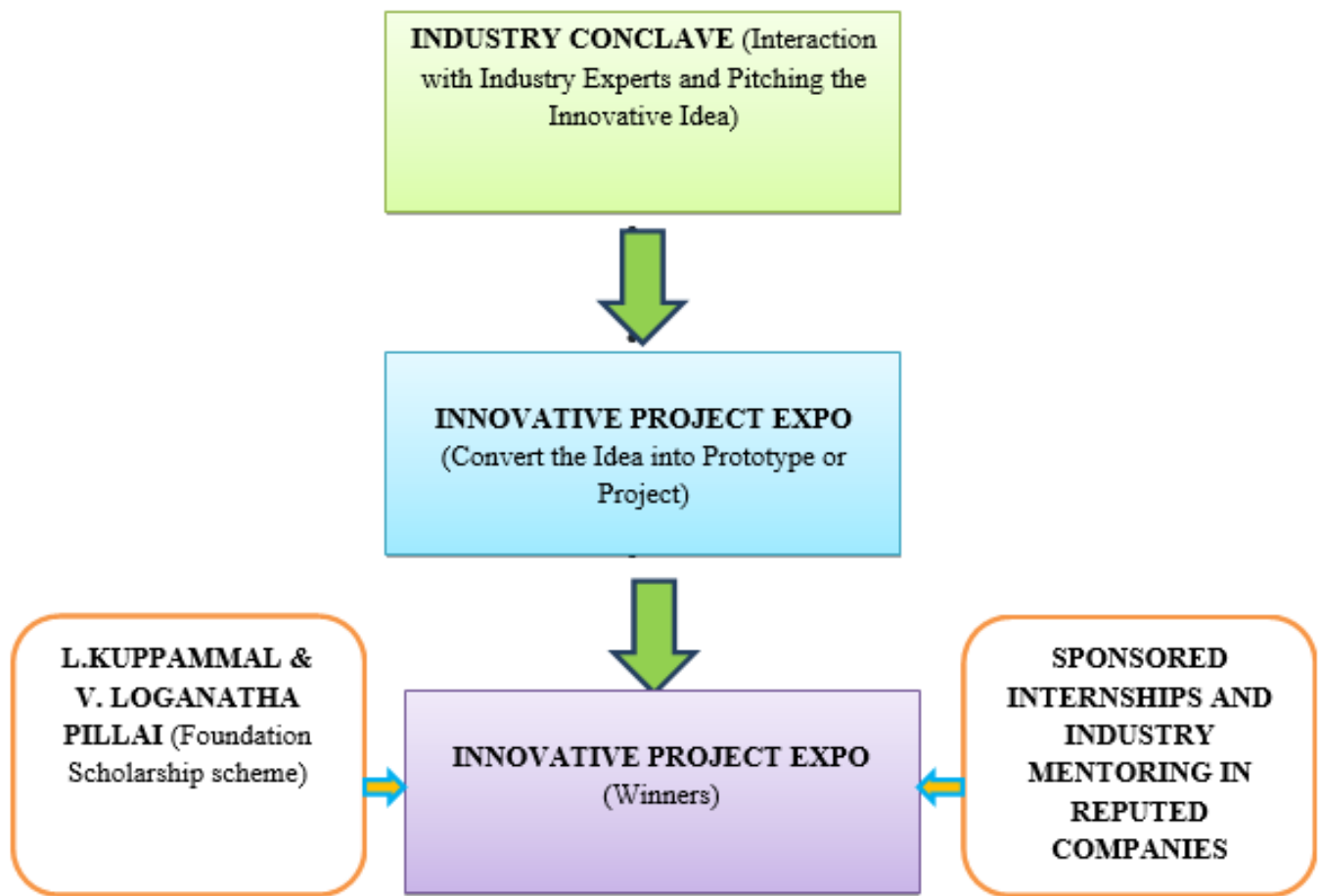
- 5,000 to 10,000—depending on the circumstances.

**Event 3:** Students who are interested in initiating startup companies

#### **Student Scholarships:**

- Up to Rs. 25000; case by case (exclusively for final year students).

### Schematic Diagram of the Process



File Description	Document
Appropriate web in the Institutional website	<a href="#">View Document</a>
Any other relevant information	<a href="#">View Document</a>

## 5. CONCLUSION

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### Additional Information :

- We have got 3.5 Star rating in IIC4.0 for the year 2021-2022.
- Also, we were recognized in the band Promising under the category of “Colleges/Institutes (Private/Self-financed) (Technical)” in Atal Ranking of Institutions on Innovations Achievement (ARIIA) 2021.
- Our college is a Nodal Centre for BMW Skill Next Program.
- We are one of the affiliated centers to conduct Pradhan Mantri Kaushal Vikas Yojana (PMKVY).
- We have MHRD–IIT Bombay supported e-Yantra Robotics lab.
- Our college has been recognized by TNSDC for conducting skill development courses and by Unnat Bharat Abhiyan (UBA) for rural development in various villages in Madurai District.
- Our institution has skill training centers and industry collaborative innovation units for nurturing innovation culture among students.

### Concluding Remarks :

- With dedicated efforts of over three decades, Solamalai College of Engineering has emerged into a centre of excellence (COE) in Engineering Education.
- Building purposive partnerships with the industry, bolstering its where withal continually and evolving innovative programmes consistent with changing times, As a result we are confident that our students will emerge as valuable contributory asserts to the development of organizations they serve as well as the nation.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																																								
1.3.2	<p><b>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)</b></p> <p><b>1.3.2.1. Number of students undertaking project work/field work / internships</b> Answer before DVV Verification : 344 Answer after DVV Verification: 344</p>																																								
2.1.1	<p><b>Enrolment percentage</b></p> <p><b>2.1.1.1. Number of students admitted year wise during last five years</b> Answer before DVV Verification:</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>169</td><td>119</td><td>110</td><td>86</td><td>139</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>169</td><td>119</td><td>110</td><td>86</td><td>139</td></tr></table> <p><b>2.1.1.2. Number of sanctioned seats year wise during last five years</b> Answer before DVV Verification:</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>306</td><td>315</td><td>564</td><td>630</td><td>690</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>306</td><td>315</td><td>600</td><td>630</td><td>690</td></tr></table> <p>Remark : input is edited considering aAICTE certificate for the year 19-20.</p>	2021-22	2020-21	2019-20	2018-19	2017-18	169	119	110	86	139	2021-22	2020-21	2019-20	2018-19	2017-18	169	119	110	86	139	2021-22	2020-21	2019-20	2018-19	2017-18	306	315	564	630	690	2021-22	2020-21	2019-20	2018-19	2017-18	306	315	600	630	690
2021-22	2020-21	2019-20	2018-19	2017-18																																					
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306	315	600	630	690																																					
2.1.2	<p><b>Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)</b></p> <p><b>2.1.2.1. Number of actual students admitted from the reserved categories year - wise during the last five years</b> Answer before DVV Verification:</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>166</td><td>119</td><td>110</td><td>86</td><td>138</td></tr></table>	2021-22	2020-21	2019-20	2018-19	2017-18	166	119	110	86	138																														
2021-22	2020-21	2019-20	2018-19	2017-18																																					
166	119	110	86	138																																					

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
120	104	110	84	138

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
149	153	271	303	331

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
149	153	271	303	331

Remark : Input is edited from supporting documents.

**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, Chairs in the institution during the last five years (INR in Lakhs)**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
8.567	5.76	9.7	0	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
8.475	5.5	9.7	0	0

Remark : Input is edited by excluding Arduino interfaced Target shooting Training by Central Reserve Police Force (CRPF) and Impact Lecture Series Session by MOE's Innovation Cell . 1.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
08	19	10	0	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
07	16	10	0	0

Remark : Input s edited by counting repeated ISSN no only once.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
27	6	4	3	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
14	6	4	3	0

Remark : Input is considered only those books which are having ISBN no.

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

Answer before DVV Verification :

Answer After DVV Verification :17

Remark : Input is edited from clarification documents. Only 17 copies of MOU ar considered remaining are activities under the MOUs.

**4.4.1 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:

2021-22	2020-21	2019-20	2018-19	2017-18
47.65	42.6	74.15	80.43	62.64

Answer After DVV Verification :

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2021-22	2020-21	2019-20	2018-19	2017-18
51.49	12.69	8.12	18.87	5.31

Remark : Expenditure on wi-fi, stationary, power and fuel, vehicle renewal, and transport expenses can not be considered here, input is edited according to it.

**5.1.2 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: D. 1 of the above

Remark : Input is edited from supporting documents.

**5.1.4 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: B. Any 3 of the above

Remark : As per supporting documents any three may be considered.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
11	9	9	4	2

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
4	6	4	1	1

Remark : Award received from inter-collegiate competitions, technical symposiums organized by a college, selfie contest, Pandyas Biz Expo etc., may not be considered. Input is edited according to it.

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

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
101	97	101	97	102

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
88	86	87	86	89

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

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
13	11	13	11	13

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
13	11	13	11	13

Remark : Input is edited from the supporting clarification documents.

**6.5.2 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)/ membership of international networks**
- 3. Participation in NIRF**
- 4. any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Answer before DVV Verification : B. Any 3 of the above

Answer After DVV Verification: C. Any 2 of the above

Remark : As per supporting documents, two of the above may be considered.

**2.Extended Profile Deviations**

ID	Extended Questions
1.1	<b>Number of teaching staff / full time teachers during the last five years (Without repeat count):</b> Answer before DVV Verification : 289 Answer after DVV Verification : 287