SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SUDHARSAN ENGINEERING COLLEGE

SUDHARSAN ENGINEERING COLLEGE,SATHIYAMANGALAM, KULATHUR
TALUK, PUDUKKOTTAI DISTRICT
622501
http://sec.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Sudharsan Engineering College was founded in the year 2000 by Sudharsan Educational Trust with the aim of disseminating knowledge in the fields of science, engineering and technology in the rural district of Pudukkottai. The college is approved by the All India Council for Technical Education and is affiliated to Anna University.

The college offers 7 Under-Graduate Programmes in the fields of Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Computer Science and Engineering , Artificial Intelligence and Data Sciences, and Artificial Intelligence and Machine Learning with a total sanctioned intake of 300. The College implemented Choice Based Credit System (CBCS) with effect from the academic year 2017-18.

The college has an excellent infrastructure, well-equipped Laboratories and Workshops, state-of-the-art Computer and IT Center, Central Library, spacious Auditorium, hygienic Canteen, and separate hostels and gyms for boys and girls. The institution aims at moulding students into engineers with state-of- the-art professional skills and responsible citizens to protect the safety, health and welfare of the society. It is located on the Trichy-Rameswaram National Highway at Sathiyamangalam, a small village in Pudukkottai district. The college boasts of a team of committed educationists and experts who impart quality education using student-centric methodologies.

Vision

   Be the best and continuously improve

Mission

Offer the highest quality engineering education in a backward area and bring out engineers with state of the art professional skills, to protect the safety, health and welfare of the society.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

The Institution has following Strength

- Focused Vision & Mission
- Well-developed infrastructure
- Qualified and experienced faculty

- Good academic culture and ambience
- On-campus Industry-run skill centre
- Management supports to upgrade faculty qualifications.
- The administrative and management policies & controls are well established and operate effectively.
- Standard procedures, policies and practices are in place.
- Effective Mentor-Mentee system.
- Strong Career counseling and Campus placements
- Institute location is easily accessible to all the Stakeholders.
- Institution's scholarship for Meritorious students
- Effective utilization of Renewable energy resources

Institutional Weakness

- Departments yet to get recognition as research centers
- Exposure of Foreign University collaboration is to be improved

Institutional Opportunity

- Autonomy would enable the Institute to address the shortcomings under affiliation system.
- Utilizing the advantages of the location to build relationships with Universities, businesses, and research organizations for consulting, sponsored research, sponsored R&D projects, academic engagement, student internships, etc.
- Utilize the institution's alumni base to create more chances to develop placement, value added courses and research.

Institutional Challenge

- Establishment of higher educational institutions, Private and Deemed Universities can cause unfair competition.
- Quality of student intake in certain departments due to change in their preferences.
- Availability of quality faculty interested in teaching.
- As tuition fee is regulated, resource base could be affected.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Sudharsan Engineering College (SEC) strongly believe that providing the right learning environment for the

students will make them industry ready engineers.

As the College is affiliated to Anna University, Chennai, it follows the Curriculum and Syllabi prescribed by the Anna University. The Academic calendar of the institute reflects University's academic calendar and includes curricular, co-curricular and extracurricular activities. Academic calendar and course plans are strictly followed and are audited regularly. Well defined mechanism for planning, execution and monitoring of curriculum and value added courses to enhance the skills of students towards industry readiness and competitive examinations. The curriculum includes subjects such as Human Values and Professional Ethics, Skill Development courses - Soft skills, Communication skills and Technical skills, Management, Economics and Finance and co-curricular activities to impart transferrable and life skills to students that propels them towards technological and human excellence.

The curriculum also includes, Mini projects, laboratory and project work, technical report writing, and training in latest softwares and technologies which is offered under technical skills. The core subjects in the curriculum provide technical knowledge in the chosen programme.

Choice based credit system has been implemented in all the programs since 2017-18. The success of curriculum design and development towards employability can be gauged through increase in the percentage of placement and gradual improvement in the average pay-package.

Teaching-learning and Evaluation

The quality of students seeking admission has been improving by the year which is evident by the ranks of the students joining. As they are from diverse backgrounds the institution is providing academic and other support.

Remedial classes are conducted for slow learners. The advanced learners are encouraged to participate in Hackathons/Design contests etc. The institute follows a Mentoring system in which around twenty students are assigned to each faculty and he/she functions as their local guardian.

The institute has a policy of recruiting well qualified and experienced faculty as per AICTE norms and this has contributed to improving the Teaching-Learning process. The institute maintains the requisite teacher-student ratio. The faculty members are encouraged to pursue Ph.D.The courses are assigned to the faculty based on their competencies and specializations. Teachers prepare an elaborate course plan, lesson plan and handouts as part of the academic schedule.

Innovative processes in Teaching and Learning like ICT tools and modern pedagogical techniques are adopted by the faculty. To bridge the gap between the curriculum and the industry requirements, department-specific technical training programs and industrial visits are arranged. To further strengthen students' domain knowledge guest lectures, workshops, conferences etc. are organized.

The examinations and evaluation system is followed systematically as per the rules and regulations laid by the University. A set of PEOs, POs and PSOs are formulated for every programme based on the 'Outcome Based Education' approach. Course objectives and outcomes, are prepared for each course following the appropriate levels of Bloom's taxonomy. The Continuous Internal Assessment and Semester End Examinations question papers reflect various levels of Bloom's taxonomy such as Application, Analysis and Evaluation, so as to

discourage the students from following rote learning method.

Systematic procedures have also been devised for assessing the attainment of PEOs, POs, PSOs and COs. The appropriate corrective measures are implemented based on the attainment levels achieved every year.

Research, Innovations and Extension

The Institute has a vibrant Research environment with linkages to Industry. The Institute has an approved R&D policy to provide important information to the faculty and staff about R&D objectives, schemes, available resources and financial benefits. The Institute has formed Research and Development Cell and an Industry Institute Interaction Cell for promoting and directing Research and Consultancy. The faculty gets to share the generated revenue according to defined revenue sharing policy. Original Research work is ensured through well publicized plagiarism policy document. The faculty members are encouraged to publish their research articles in reputed journals. The Institute has been awarded Research Projects from non-governmental agencies. Institution's Innovation Council is actively involved in promoting innovation among students and staff.

The Institute has 32 (perpetual & time bound) functional Memoranda of Understanding (MoU) with Industry as well as other institutions which promotes activities such as Training, Placement, Student Exchange and faculty exchange. The Institute encourages the faculty to undertake research by providing seed money, access to laboratories and research facilities. The Institute provides academic leave, for pursuing doctoral work, permission and financial support to attend conferences for paper presentation and Faculty Development Programs (FDP). The college conducts various programmes on Research Methodologies, IPR and Entrepreneurship.

A total of more than 60 extension activities for the community were conducted in the last five years besides organizing several blood donation camps. Every year SEC receives awards and recognition from various Government and Non- government bodies.

Infrastructure and Learning Resources

The Institute has ICT enabled classrooms, well equipped laboratories, sports facilities and good infrastructure spread over 25.21 acres with lawns, beautiful landscape, appealing architecture and eco-friendly environment. The classrooms are well-furnished, spacious with good ventilation and illumination. The college has three seminar halls and one auditorium. All seminar halls are equipped with ICT facilities. Digital boards have been installed at select locations.

The college website provides all the essential information for the stakeholders. Computers with latest specifications are purchased and softwares are updated as and when required. Internet connectivity through LAN and Wi-Fi are made available with 100 MBps bandwidth. E-Box, and AI based Teaching, Learning and Assessment platform is used for the teaching-learning process. More than sufficient number of computers is available to the students.

The institution recognizes the importance of the library as a good learning resource. It is updated regularly with the latest books & journals. The central library is facilitated with Library Management Software, well-furnished

reading space, reprographic facilities, Digital library, DELNET, National Digital Library of India (NDLI) membership for access e-resources. The digital library is equipped with internet facility. It enables student's remote access to DELNET e-journals.

CCTVs installed at strategic places help to monitor the campus activities. The Institution ensures uninterrupted power supply and maintenance of electrical assets. The Institution has power house installed with a Diesel Generator (125 KVA). The maintenance of equipment like Diesel Generator Sets, Power Distribution Systems, Elevators, Air-conditioners, Fire-Fighting Equipment, Drinking water, Water- coolers and Solar Panels etc. is undertaken by authorized vendors. The Institution provides separate Hostels for boys and girls, Cafeteria, Stores and Transport facilities for all students and staff.

Student Support and Progression

The key aspects as given below describe the steps taken by the institution to provide necessary assistance to the students in terms of academics such as providing meaningful experiences for learning at the campus facilitating holistic development and progression. It also aims at student performance and alumni engagement and the progression of student for higher education and/or achieving employment.

The economically and socially challenged students are provided with financial assistance by State and Central Government Agencies based on certain economic criteria. Financial assistance is also given by college Management to the needy students through fee concession. 93.47%. The college takes initiatives to make sure that all eligible students receive scholarships from the government.

The capability enhancement and development schemes include skill development courses: language and communication skills, soft skills, life skills and technical skills. Co-curricular and Extra- curricular activities are also entrenched into the system for a holistic development of a student. Various programmes are conducted focusing on career development and competitive examinations.

Remedial coaching is provided for academically weak students so that they can improve in their academics. The institute follows a mentor-Mentee system in which around twenty students are assigned to each faculty member. Besides this, personal counseling is given to students through a qualified professional Student Counselor. The consistent academic and other support rendered, have resulted in increased number of placements, more than eighty percent, and gradual improvement in average pay package.

Sports & cultural activities are organized by the institution every year wherein the students play an important role in planning and organizing.

The institution also has a transparent mechanism for timely redressal of student grievances. Students' representation in several academic & administrative bodies/committees of the institution is ensured. The committees are Class Committee, Anti ragging committee, Internal complaints Committee, Student Grievance Redressal Committee, Canteen committee, IQAC, Women Empowerment cell etc.

Alumni Association contributes significantly to the development of the institution through financial and non-financial initiatives.

Governance, Leadership and Management

The institute has a well-defined organizational structure and the policies of the management committee and Board of Governance (BOG) are implemented by the Principal with the help of Heads of Department and various committees constituted for specific purposes. Faculty members are represented in the BOG and Academic council as part of participative management. As part of decentralization, representatives of faculty, nonteaching staff and students participate in various Committees of the institution.

E-governance, using in-house developed ERP software, has been implemented for admissions, finance and accounts, and examinations. The college implements several welfare measures for the faculty and staff for their personal and professional growth. These include medical leave, on duty leave, maternity leave, paternity leave, provident fund etc. and financial support for higher education.

Faculty are encouraged to attend faculty development programmes, Refresher courses workshops, conferences, etc., .and are financially supported by the way of providing on duty leave, travelling allowance, daily allowance, registration fee etc. Professional development programmes are conducted for teaching faculty and administrative / technical training programs for non-teaching staff.

The institute has a well-defined performance appraisal system for faculty and non-teaching staff. The institute has a well-defined policy for budgeting and audit including internal and external auditing. Internal Quality Assurance Cell looks after quality aspects in the institute. The IQAC regularly reviews the teaching learning process, evaluation and assessment etc. and as a result value added courses have been introduced with an aim to enhance not just the quality of placements, but also to develop their knowledge, skill sets and overall personality.

The institute has formulated a strategic plan and continues to implement it for its overall development.

Institutional Values and Best Practices

The institution follows all the rules as per the statutory requirements with respect to academics, finance and administration and maintains complete transparency in all its activities. The institute understands and meets the requirements of women employees and girl students with respect to safety, security, and counseling. It conducts Gender Audit annually and make corrective measures if any.

The institution has adopted an environment friendly approach in maintaining the campus with continuous attention towards tree plantation, adopting water harvesting methods, and energy conservation methods. A bio-gas plant is in operation which helps us reduce the LPG consumption. Facilities have been provided for the differently abled students, like ramps, special toilets, elevators and connecting bridge etc. The college celebrates various festivals and important days which provides an inclusive environment, and it promotes unity in diversity, understanding, appreciation of other cultures and tolerance. Quality audits on environment and energy are conducted regularly. The students participate in Swachh Bharat activities and green initiatives, conduct blood donation camps and take part in awareness programmes. The students are trained through two regular courses on Human Values and Professional Ethics with credit weightage.

Practice Oriented Learning is provided through on-campus E-Box skill centre which uses E-Box platform. The platform is built with a proprietary LMS base which makes both assessment and learning management integrated. Our College is a Nodal Centre for ISRO-IIRS Programme through which we strive to promote widespread adoption of Remote sensing and Geospatial technology education, and empower faculty and students for professional advancement.

The college's distinguishing factor lies in its emphasis on supporting economically weak students to develop them into well-rounded personalities, equipping them to tackle global challenges. To achieve this, college provides them with management scholarship to those who satisfy the norms. Our college apart from management scholarship, by actively supporting and facilitating government scholarship schemes demonstrates a commitment to providing financial assistance and educational opportunities to a diverse range of students. By participating in programs such as OBC Scholarship, PMSS (Post Matric Scholarship Scheme), and 7.5 Scholarship, our college is helping students to overcome financial barriers and pursue their academic aspirations.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SUDHARSAN ENGINEERING COLLEGE
Address	Sudharsan Engineering College,Sathiyamangalam, Kulathur Taluk, Pudukkottai District
City	Pudukkottai
State	Tamil Nadu
Pin	622501
Website	http://sec.ac.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Principal	K. Srinivasan	04339-240830	8825801884	-	principal@sec.ac.in
Professor	K. Asan Mohideen	04339-240840	7904426298	-	hodece@sec.ac.in

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 minroity institution	No

Establishment Details

State	University name	Document
Tamil Nadu	Anna University	[View Document](#)

Details of UGC recognition

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

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	[View Document](#)	02-06-2023	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	Sudharsan Engineering College,Sathiyamangalam, Kulathur Taluk, Pudukkottai District	Rural	25.21	34417

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering,Civil Engineering	48	H.Sc.	English	30	8
UG	BE,Computer Science And Engineering,Computer Science and Engineering	48	H.Sc.	English	60	53
UG	BE,Electronics And Communication Engineering,Electronics and Communication Engineering	48	H.Sc.	English	30	24
UG	BE,Mechanical Engineering,Mechanical Engineering	48	H.Sc	English	30	7
UG	BTech,Artificial Intelligence And Data Science,Artificial Intelligence and Data Science	48	H.Sc	English	60	59
UG	BE,Computer Science And Engineering Artificial Intelligence And Machine Learning,Artificial	48	H.Sc.	English	60	38

	Intelligence and Machine Learning					
UG	BE,Electrical And Electronics Engineering,Electrical and Electronics Engineering	48	H.Sc.	English	30	21

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	7				5				51			
Recruited	4	3	0	7	3	2	0	5	24	27	0	51
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				13
Recruited	11	2	0	13
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				7
Recruited	5	2	0	7
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/M CH	0	0	0	0	0	0	0	0	0	0
Ph.D.	4	3	0	0	0	0	0	0	0	7
M.Phil.	0	0	0	0	0	0	7	7	0	14
PG	0	0	0	3	2	0	17	20	0	42
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/M CH	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/M CH	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	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	404	0	0	0	404
	Female	150	0	0	0	150
	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	12	13	2	11
	Female	6	4	0	5
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	65	65	14	34
	Female	15	25	20	9
	Others	0	0	0	0
General	Male	0	2	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		98	109	36	59

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Various engineering programmes are offered at Sudharsan Engineering College. The University gains a multidisciplinary status as a result of the programmes it offers in many streams. The programmes available follow the CBCS (Choice Based Credit System) structure, where the credits assigned to the recommended courses are particular. Each course has a certain amount of credits and is designated as Core, Professional Elective, Open Elective, Skill-Based, or Value- Based. Experiential learning is incorporated into all the programmes in the form of projects, field trips, study tours, and internships. A course on environmental studies is part of the curriculum for all UG students in order to

	make them aware of environmental issues and eco-conscious. The unique goals of different courses and the scope of various programmes all contribute to the students' overall growth. As an affiliated institution, the college adheres to the guidelines established by the affiliating University in regards to the entry-level requirement for a programme and the length of a program/course. The institution is restricted in its ability to permit numerous entry and departures since the University, which approves each programme offered in the college, sets the norms. Each programme offers a non-major elective course where students can choose a course to get exposure to multidisciplinary education in a different domain. As the University determines the norms and authorizes each programme made available by the college, the institution is restricted in its ability to permit repeated admission and exits
2. Academic bank of credits (ABC):	Students enrolled in undergraduate and graduate degree programmes at ABC may leave and rejoin the programme within a predetermined time frame. As an affiliated institution, the college has limited options for implementing the ABC system. However, the organization will adhere to the guidelines set forth by the affiliating University. The institution made initial steps to make necessary registration process for ABC. Our college encourages its faculty to make insightful recommendations for developing the curriculum. Every student must have access to the ability to open an individual or unique Academic Bank Accounting digital form through Academic Bank of Credits. The account holder must also have access to the Standard Operating Procedure as well as a unique ID (SOP). By allowing students to gain credits from a variety of HEIs registered under this scheme as well as through an online library of courses like SWAYAM and NPTEL, the ABC Regulations aim to support blended learning. Regarding pedagogy, instructors are always urged to experiment with fresh, student-centered approaches. In teaching learning, besides, the prescribed text books and reference books, the teachers have the liberty to access any other book or material with content related to the topics prescribed in the syllabi. The teachers are also encouraged to provide additional resources / reading materials. Regarding assessments, both internal and external, the assessment criteria prescribed by the affiliating

	University is strictly followed.
3. Skill development:	Enhancing soft skills is accomplished by conducting specialized programmes on soft skill development with subject experts. The institution, in addition to teaching the curriculum, undertakes a number of efforts to provide value-based education. Life skill programmes are run to advance moral principles. To encourage national integration, significant days such as Republic Day, Independence Day, Constitutional Day, Voter's Day, Environment Day, and National Integration Day are observed. On these occasions, competitions are held in order to inspire students and instill virtue in young people. Every student enrolled in the college is required to join one of the clubs or cells, such as NSS, Sports club, Cultural club, Eco Club, etc. Programs on life skills, such as yoga, meditation, women's safety, health and hygiene, etc., are planned with the help of business professionals who provide practical instruction
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	India is a treasure trove of culture, with thousands of years of history that has produced works of art, literary works, customs, traditions, languages, artifacts, historical places, and more. Particularly, languages affect the manner in which members of a given culture communicate with others, including family members, superiors, peers, and strangers, as well as the tone of their conversations. Thus, our languages serve as a container for culture. The college has promoted our country's culture and history ever since it was founded. The programme's required electives have an Indian tradition, culture, philosophy, and knowledge system as their primary subject. The college uses English as its primary language of instruction because it is a higher education institution. The University has also noted the challenges that students experience when using English in the classroom. Teachers are also expected to use a multilingual approach to instruction while taking into account the socioeconomic, cultural, and language backgrounds of the students. The multilingual delivery method improves the pupils' receptive skills. The bilingual style of delivery is recommended in practically all programmes because the majority of our students come from rural backgrounds and it helps them understand the things they are being taught. A course on Tamil language and heritage is offered to the students. By providing

	courses such as Well Being with Traditional Practices-Yoga, Ayurveda and Sidha, History of Science and Technology in India, etc. which are in the curriculum, the college promotes Indian culture and customs.
5. Focus on Outcome based education (OBE):	A system known as "outcome-based education" focuses on the course's outcomes in all of its components and facets. Students enroll in courses with the intention of mastering a certain skill or obtaining knowledge, and they are required to do so by the course's conclusion. No particular learning method or time frame exists. The students can choose how they want to learn. Based on the desired results, the instructors, moderators, and faculty members direct the students. Specific programme and course outcomes are listed for each of the programmes and courses that are recommended in the syllabi. Through meetings of the Board of Studies and Academic Council, the affiliating University is sufficiently represented during the design and development of the curriculum to place more emphasis on the course outcomes.. It is advised to add more courses that emphasizes experiential learning to the curricula. Our curricula include skill-based courses, job-seeking courses, and project work to make sure that our education is outcome-based. The University has seen a paradigm shift from traditional teaching approaches to student-centric teaching-learning approaches. Continuous internal assessments are used to evaluate students, including quizzes, group discussions, seminars, peer team teaching, and assignments.
6. Distance education/online education:	The college only provides regular programmes because it is an affiliated institution. There is no remote learning or online programmes available. The college has seen numerous teaching and learning process phases throughout its academic career. Chalk and talk was previously the most widely utilized method of instruction. Due to recent breakthroughs in science and technology, the education sector has become entirely digital. ICT is encouraged in the teaching and learning process at our college. Our management continuously expands the college's infrastructure and ICT capabilities in order to satisfy demand. The use of numerous virtual platforms for teaching and learning has risen in the post-Covid scenario. Many online teaching technologies are now widely used by the teacher and student communities. The college has utilized blended learning to its fullest

<table>
<tr><td></td><td>potential during the pandemic. The college uses an AI based teaching, learning and assessment platform called E-Box to provide the students with remote access to lecture notes and assessments.</td></tr>
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Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes, The Electoral Literacy Club (ELC) exists in our college and is successfully run with the full support of our students. Students become familiar with the election process including voter registration and voting, through a variety of activities.
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?	We have coordinators who are members of the faculty and students who have been chosen by the college, which also has its own representatives. This group carries out its duties by recruiting student participants for various awareness campaigns. The following members make up the ELC: 1. Chairman 2. Coordinators of the Faculty 3. Employees of the department 4. Student delegates for the positions of president, vice president, secretary, and 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.	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. Every year, our ELC conducts lectures for first year students to inform their rights and inspire them to exercise those rights by registering and exercising their franchise. This programme helps to educate our students about their rights and to motivate them to utilise those rights by voting. Various ELC competitions were organized in our campus with the support of the officials from the district administration. Our Students actively participated and received cash rewards, certificate and medals. Mr. Narayanan, the Faculty coordinator actively involved with all the ELC club students and makes them vibrant to spread the importance of voting among the rural peoples by conducting

	suitable outreach rally activities.
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.	Students are encouraged to create the necessary awareness among the rural public in the form of rally conduction with suitable pictorial sign boards. Our students actively participated in the awareness exhibition program every year.
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 club collaborates with the District Collector and District Election Officer (DEO) and creates awareness about the importance of voting through various programs like rally, surveys and conducting Competitions. Every year, we conduct registration camps for the new voters on campus, and with the support of ELC, our first year students and lateral entry students are motivated to enroll their names in the electoral roll.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
352	324	299	393	534

File Description	Document
Upload Supporting Document	[View Document](#)
Institutional data in prescribed format	[View Document](#)

2 Teachers

2.1

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

Response: 151

File Description	Document
Upload Supporting Document	[View Document](#)
Institutional data in prescribed format	[View Document](#)

2.2

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

2022-23	2021-22	2020-21	2019-20	2018-19
63	61	62	65	72

3 Institution

3.1

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

2022-23	2021-22	2020-21	2019-20	2018-19
92.39	231.30	139.70	173.40	161.52

File Description	Document
Upload Supporting Document	[View Document](#)

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

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

Response:

Sudharsan Engineering College is affiliated to Anna University(AU), Chennai, Tamil Nadu, and follows the curriculum and syllabus framed for affiliated colleges. The University formulates and revises the curriculum once in four years. Also, the implementation will be well documented to have effective monitoring of the curriculum delivery at various levels.

Academic calendar

At the beginning of the Semester an academic schedule is published by the University for UG programmes. The Institution confirms effective time management and strictly follows timeliness given by the University (AU). The Institute carries out effective planning to adhere to the academic calendar; this permits the faculty members and the students to space out their teaching, learning and regular assessment. Based on this, an academic calendar for the Institute is prepared which highlights commencement of the classes, last working day, duration of semester, schedule of Continuous Internal Assessment Tests / Model Examination, Anna University Semester Examinations, Annual Day, Sports Day and Holidays.

Based on the academic calendar the Department plans the Seminars, Conferences, Workshops, Guest lectures and Industrial Visits. If there is any deviation in the schedule due to unavoidable reasons, then the event may be conducted with the approval of HoD and Principal at a later date.

Curriculum Planning:

The AU curriculum is a blend of Humanities, Basic Science, Basic engineering, Core Courses, Elective courses, Projects and Seminars.

Course Allocation: Before the commencement of every semester, the course allocation is done based on the choice of the faculty members by the HoD. Elective subjects are finalized with the willingness of the students.

Course File: Course file is prepared by the faculty members with a detailed lesson plan, handouts, assignments, question bank, previous university question papers. To assess the knowledge of students, question papers for the Internal Assessment tests are prepared with desired Bloom's Taxonomy levels.

Curriculum Delivery Plan

Before the beginning of the semester the faculty members submit course plan and course material. Faculty are encouraged to use student centric methods. Lab manuals are available in all the labs. The curriculum delivery includes traditional teaching, collaborative learning, and participative learning.

Traditional teaching methods: It includes preparation of detailed lesson plans, a question bank, lab manuals, lecture notes, tutorials and assignments.

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. Value-added courses are arranged for the students to enrich their knowledge.

Participative Learning: Students are motivated to participate in Technical symposium, conference, Smart Hackathon etc.

Feedback Process

- Every class has a class committee of teachers of the class concerned, student representatives and faculty advisor. The overall goal is improving the TLP.
- The class committee shall be constituted by the HOD with atleast 4 student representatives (2 girls and 2 boys) if possible.
- In the meeting, various aspects of TLP are discussed and feedback from the students and the corresponding response are collected and analyzed. Principal decides on the corrective action required.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1

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

Response: 56

File Description	Document
List of students and the attendance sheet for the above mentioned programs	[View Document](#)
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Evidence of course completion, like course completion certificate etc. Apart from the above:	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

Other Upload Files	
1	[View Document](#)

1.2.2

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

Response: 78.97

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

2022-23	2021-22	2020-21	2019-20	2018-19
252	212	265	332	441

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

1.3 Curriculum Enrichment

1.3.1

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

Response:

Institution believes that integrating cross cutting issues with the curriculum would create positive effect on the student in terms of their education and social commitment. The curriculum is framed by the University and it does include the cross cutting issues relevant to Gender equality, Environment and sustainability, Human Rights and Professional Ethics etc.

Professional Ethics

Professional ethics are principles that govern the behavior of a person or group in a business environment. Like values, professional ethics provide rules on how a person should act towards others and institutions in such an environment. Developing professional ethics and human rights will improve one's ability and judgment and refine one's behavior, decisions and actions in performing the duty to the family, organization, and society. Therefore, Anna University has made "Professional Ethics" one subject for all engineering branches, enabling the students to gain professional knowledge.

Gender Equality *(Women Empowerment Cell)*

The Women Empowerment Cell was established in our college with a mission to empower female students and staff, to raise their awareness about women's issues in society, and to help them face these challenges with strength and determination. The objective of the Women Empowerment Cell is to promote the advancement, development, and empowerment of women, and to achieve gender equality through various initiatives such as guest lectures, seminars, workshops, awareness programs, and welfare activities.

Human Values

In order to integrate human rights into curriculum Anna University offers Human Rights course as an elective and the same is taught for our students. Further our institute follows a transparent system of administration. Committees like Anti-Ragging deals issues regarding any ragging related misconduct. The committee conducts meeting with students and informs their rights and benefits in the society.

Environment and Sustainability

In order to integrate the cross cutting issues relevant to environment and sustainability, University has included different types of courses in the curriculum to bring awareness among students. All programs have a compulsory course of Environmental Science and Engineering in first and second year curriculum. In this subject, students study basic components of environment and its application to tackle issues such as pollution control, green gases etc.

The institution has taken the efforts to give awareness on environmental issues and its sustainability to society through extension activities by NSS and YRC. Students are motivated to engage in Tree Plantation. The Institution has also adopted rain water harvesting system to increase the recharge of ground water by collecting the rain water from the catchment areas.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

1.3.2

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

Response: 68.47

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

Response: 241

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

1.4 Feedback System

1.4.1

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

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

File Description	Document
Feedback analysis report submitted to appropriate bodies	[View Document](#)
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	[View Document](#)
Action taken report on the feedback analysis	[View Document](#)
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 25.65

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

2022-23	2021-22	2020-21	2019-20	2018-19
98	109	36	59	75

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

2022-23	2021-22	2020-21	2019-20	2018-19
270	270	270	300	360

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Final admission list as published by the HEI and endorsed by the competent authority	[View Document](#)
Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.1.2

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

Response: 36.17

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

2022-23	2021-22	2020-21	2019-20	2018-19
98	102	36	56	74

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

2022-23	2021-22	2020-21	2019-20	2018-19
186	186	186	206	248

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

2.2 Student Teacher Ratio

2.2.1

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

Response: 5.59

2.3 Teaching- Learning Process

2.3.1

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

Response:

Sudharsan Engineering College takes effort in teaching learning process towards student centric approach by adopting various suitable learning methodologies to facilitate life-long learning. Experiential, participatory and problem-solving learning are adopted to ensure that students are active participants in the teaching-learning process. These learning processes develop communication skills, listening skills, and problem solving skills. Participation in such academic programmes enable holistic development of the students. The methodologies practiced by all the programmes are listed below.

Experiential Learning:

- Every student is made to have an experiential learning path
- Every semester departments organize Industrial Visits and Internships in company to gain exposure to industrial practices.
- Students are encouraged to participate in internal / external college workshops, National & International conferences etc.
- Value added courses and workshops are organized to gain hands on experience in latest technologies.
- Internal Quality Assurance Cell (IQAC) is built to ensure a quality education at the institution level through continuous reviews and periodic meetings.

Participative learning:

- Students participate in Online Lecture Tutorials, NPTEL courses.
- Students are encouraged to participate in national level competitions, conferences, seminars and workshops in and outside the college.
- Students are motivated to participate in Smart India Hackathon, Professional Society events where students can explore their ideas and innovation towards awards and achievements.
- Seminars, and Guest Lectures influence them to understand the concepts and the subsequent process implementation in appropriate way.
- Through various club activities, the spirit of teamwork and social responsibility is instilled among students.
- Project work in collaboration with industry help students to acquire practical knowledge and enhance their knowledge through interaction with industrialists/scientists.
- Free Internet access in the library and Wi-Fi facilities in campus promote the habit of self-learning among the students.
- Guest lectures by eminent industry experts are arranged to facilitate students to acquire real time knowledge in recent technologies.

Problem Solving Methodologies:

- Tutorial classes form a part of the course delivery to inculcate problem solving skills among the students to supplement regular teaching learning process.
- The problem-solving ability is further emphasized by incorporating questions on case studies

(Part C) in the internal assessments and involving them to solve the problem posted in E-Box platform.

- Analysis, Evaluation & design based problems are ported in the E-Box portal. Students can solve these problems in the college as well as from the comfort of their home.
- In addition to general aptitude and logical reasoning classes, second- and third-year students are offered value added programs which improve their problem-solving skills.
- Symposium and Project Contest are arranged for students to test their coding skills and work on interesting real-world challenges
- Students are made to carry out mini-Projects and main projects to have more experiential learning.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

2.4 Teacher Profile and Quality

2.4.1

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

Response: 100

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

2022-23	2021-22	2020-21	2019-20	2018-19
63	61	62	65	72

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

2.4.2

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

Response: 8.05

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

2022-23	2021-22	2020-21	2019-20	2018-19
8	4	3	4	7

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	[View Document](#)
Institution data in the prescribed format	[View Document](#)
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awareded by UGC recognized universities	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1

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

Response:

Sudharsan Engineering College has a separate exam cell to conduct internal assessment and university exam. The institute is affiliated to Anna University Chennai and it follows the regulation of the University to conduct internal assessment tests, University theory and practical examination.

Conduct of Internal Assessment Test / Model Examination

- Two Internal Assessment Tests (IAT) and one model exam are conducted during each semester depending on the Regulation of the University. Internal Assessment Test schedules are communicated to students and faculty in the beginning of the semester through Institute academic calendar based on the university academic calendar.
- The Internal exam time table is also displayed on the notice board a week before the commencement of the exam. IAT Syllabus & Question Pattern: The tentative portions of syllabus

for the Continuous Internal Assessment is that Unit I & II for the IAT-I and Unit III & IV for the IAT-II. All 5 units are covered for Model examination for all the programmes to enable students to revise all the topics of the syllabus.

- Internal Assessment Examination question papers are framed based on the previous semester University question papers and the question bank. It adheres to AU standard and follows Bloom's Taxonomy through which CO is attained.
- Unit wise question banks are provided to the students for all the subjects.
- IAT Exam Question paper is prepared by the faculty and verified by the HOD. Answer scripts are evaluated by the subject handling faculty and returned to students on the third day from the completion of exam.

Conduct of University Examinations

- Candidates are permitted to appear for the semester examination after they registered for examination in all courses according to the Anna University regulations.
- The list of students opted for elective subjects are uploaded in university web portal after Principal's approval.
- The Chief Superintendent (CS) is appointed by the Principal. Examination schedule and fee circular will be displayed in Notice boards. Anna University Representative (AUR) is appointed by the Zonal office.
- Question papers are issued by the University in sealed covers and opened 10 minutes before the scheduled time by Chief Superintendent & Anna University Representative. Invigilation duty, Hall & Seating arrangements and hall ticket distribution are prepared by the Exam Cell as per University requirements.

- The sealed cover containing answer scripts are handed over to the Zonal office by the Chief Superintendent through Anna University Representative. Any malpractice of the candidate is booked and reported by the hall superintendent to the Chief Superintendent/COE.
- The University releases a circular to inform the commencement of central valuation

Students Grievances:

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

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

2.6 Student Performance and Learning Outcomes

2.6.1

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

Response:

- Programme Outcomes (POs): It represents the knowledge, skills and attitudes the students should have at the end of a course completion of their respective Engineering program.
- Course Outcomes (COs): It gives the resultant knowledge and skills the student acquires at the end of each course. It defines the cognitive processes a course provides.
- Programme Specific Outcomes (PSOs): These are statements that define outcomes of the programme which make students realize the fact that the knowledge and techniques learnt in this course has direct implication for the betterment of society and its sustainability.

Program Outcomes (POs), Program Specific Outcomes (PSOs) and course outcomes are Communicated to the stake holders of the program by the following procedures.

POs and PSOs are approved by the Department Advisory Board

- POs and PSOs are available in the Institute website (http://www.sec.ac.in). POs and PSOs are kept in prominent locations of the campus for staff, students and public view. POs and PSOs are displayed in Department office, Laboratories and Department library.
- During the class committee meeting and faculty meeting POs and PSOs are reviewed among the students and staff members.
- Vision and Mission of Institute and Department are informed to the parents during Parents Teachers Meeting.
- Course Outcomes (COs) are framed at Department meeting. Department frames course committee for each course with course handlers along with one subject area expert. The course outcomes and their mapping with program outcomes and program specific outcomes are elaborately discussed and derived by the course committee members.
- Even though the COs is given by the Anna University along with the syllabus, if necessary, the COs are modified and reframed by the course committee members (CC).
- COs are communicated to the students during the introduction class itself. COs along with lesson plan are printed and issued to the students during the first class.
- During the discussion of the course, the outcomes of the course are also focused. During the

commencement of each unit and after the completion of the unit, the course outcomes are reviewed.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

Sudharsan Engineering College always aims to impart outcome-based education and transform the students into socially responsible and proficient engineers. Each Programme consists of twelve Program Outcomes (POs) and Three Programme Specific Outcomes (PSOs) and every program has its specified number of courses with Course Outcomes (Cos). In the department, the level of attainment by the students in the courses is evaluated after every assessment continuously in each semester through the Course Outcomes set by the university.

The course handling faculty evaluates the answer scripts of all the Continuous Assessment Test (CAT). For theory courses, the internal assessment is based on the students' performance in 3 Continuous Assessment Test (CAT) namely CAT 1, CAT 2, CAT 3 or Model Exam and the external assessment is relied on the end semester university examinations. The COs target for each of the courses is set as equal to the maximum attainment level, i.e. To evaluate the attainment of Course Outcomes, Direct Assessment and Indirect Assessment are used. Direct Assessment includes Internal Assessment and end semester examination. Indirect Assessment includes course exit survey.

Attainment of Course Outcomes:

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

Benchmark of 50% of students get more than or equal to the threshold is Attainment Level 1. 55% Benchmark is equal to Level 2   Finally 60% of students get more than or equal to the threshold is Attainment Level 3

Attainment through University Results:

Since the University is following grade system for awarding results for end semester examination; we convert the grade to 100% and calculate the attainment level. Attainment through direct method is calculated as follows.

Direct Attainment Level = 80% of university + 20% of Internal Assessment

Attainment of the POs and PSOs:

Attainment of the POs and PSOs is calculated using direct and indirect methods.

Attainment of COs of individual courses is calculated by the faculty handling the course .

Indirect Method consists of the following methods.

1. Programme Exit Survey: Student's Outgoing feedback is considered as an important assessment tool. The feedback form is based on a 3-point scale.

2. Alumni Survey: Alumni feedback is obtained annually in the prescribed format to help their juniors in various aspects.

3. Employer Survey: The survey obtained annually from the employers of the industry where the students are employed.

HODs will collect the entire Cos, Programme Exit Survey, Employer Survey and Alumni   Survey, and calculate the attainment of POs and PSOs for a particular batch of passing out students.

Over All attainment=70 % of Direct Assessment + 30 % of Indirect Assessment

PSO is also calculated using the same approach.

Principal and respective department HoDs will review the POs and PSOs of every batch of students passing out from that particular department and identifies the area required for improvement. HoDs will implement the suggestions arrived at the deliberations during subsequent years to achieve the vision and mission of the institution.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

2.6.3

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

Response: 70.98

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

2022-23	2021-22	2020-21	2019-20	2018-19
51	63	124	88	80

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

2022-23	2021-22	2020-21	2019-20	2018-19
64	74	126	131	177

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	[View Document](#)
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response: 3.99

File Description	Document
Upload database of all students on roll as per data template	[View Document](#)

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

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

Response: 2

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

2022-23	2021-22	2020-21	2019-20	2018-19
0	2	0	0	0

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

3.2 Innovation Ecosystem

3.2.1

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

Response:

The Sudharsan Engineering College has formed various cells to create an active flow of information and resources to transform creative ideas into reality by creating an ecosystem of innovation.

Institution's Innovation Council (llC)

The institute established Institution's Innovation Council in association with MHRD, Government of India. The primary aim of the Cell is to encourage, inspire and nurture young students by supporting them to work with new ideas while they are in formative years. The IIC also works with external partners to develop collaborative initiatives and build a network of innovators.The IIC Cell serves as a catalyst for fostering creativity and innovation among students, faculty, and the wider community.Through workshops, seminars, and ideation sessions, the Cell provides a platform for individuals to brainstorm and develop innovative ideas across various domains.

Intellectual Property Rights (IPR) Cell

The Intellectual Property Rights cell has provided a platform to share and discuss the latest developments and applications with practical exposure and assist faculty members, students and academic researchers in the patent filing process. IPR Cell promotes knowledge of intellectual property rights through seminars and workshops for the faculty and the students. The IPR Cell plays a pivotal role in fostering innovation, protecting intellectual property, and driving economic development.

Entrepreneurship Development Cell (EDC)

The Cell was established with the purpose of promoting and supporting the innovations of students from ideation to the creation of an entrepreneurial ecosystem. The institute officially registered with Entrepreneurship Development and Innovation Institute, Department of MSME. The cell provides the necessary facilities and technology assistance so that students can build their innovative startups and projects. It organizes various programmes to motivate the students to become entrepreneurs rather than job seekers, and to introduce various schemes and avenues through which they can get funding.

Research and Development (R&D) Cell

The Research and Development cell at Sudharsan Engineering College is well established and active, and its members come from several disciplines. R&D supports patent design and research publication of the faculty in peer reviewed, UGC approved journals and conference proceedings.The R&D cell serves as a driving force for innovation and excellence within our institution, fostering a vibrant research ecosystem that empowers faculty and students to push the boundaries of knowledge and create impactful solutions for societal challenges.

Institute Industry Interaction Cell (IIIC)

The Cell is taking the initiative to bridge the knowledge gap between the industry sector and the academia. The cell organizes diverse learning opportunities for the students which include industrial visits, internships, seminars, workshops, guest lectures, etc. through a number of Memorandums of Understanding (MOU) in collaboration with a variety of industries.Its mission is to create a dynamic ecosystem where academia and industry synergize for mutual growth and innovation.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

3.2.2

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

Response: 55

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

2022-23	2021-22	2020-21	2019-20	2018-19
17	10	9	9	10

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

3.3 Research Publications and Awards

3.3.1

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

Response: 0.09

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

2022-23	2021-22	2020-21	2019-20	2018-19
2	3	4	2	2

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	[View Document]
Link to re-directing to journal source-cite website in case of digital journals	[View Document]
Links to the papers published in journals listed in UGC CARE list or	[View Document]
Institutional data in the prescribed format	[View Document]
Provide Links for any other relevant document to support the claim (if any)	[View Document]

3.3.2

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

Response: 0.01

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**

2022-23	2021-22	2020-21	2019-20	2018-19
2	0	0	0	0

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

3.4 Extension Activities

3.4.1

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

Response:

National Service Scheme (NSS):

The National Service Scheme (NSS) of our college provides students with a platform to serve the community and develop their skills. The college has two NSS units. It provides students with an opportunity to work with local communities to understand their needs and provide assistance.The NSS program is aimed at inculcating a sense of social responsibility in students by engaging them in various community service activities. The NSS carries out a variety of activities such as organizing health camps, organizing awareness programs and blood donation camps, etc. The programme also provides students with an opportunity to develop their leadership and organizational skills.The activities are designed to help students acquire knowledge about social issues, develop a sense of responsibility and empathy towards the people of their local community, and provide them with an opportunity to work for the

betterment of the society. The NSS program also helps in developing a sense of team spirit and camaraderie among the students

Through our extension activities such as health camps, Awareness Programme, Cleaning activities in Villages, Awareness Rallies, the neighborhood community has experienced enhanced empowerment.Collaborative efforts in organizing and participating in various activities have bridged socialdivides and promoted inclusivity.Engagement in extension activities has sensitized students to a wide range of social issues prevalent in the community.

Direct interaction with community members has provided students with firsthand insights into the challenges faced by marginalized groups.Through experiential learning, students have developed empathy, compassion, and a sense of social responsibility, crucial for their holistic development.Extension activities have provided students with opportunities to take on leadership roles and develop effective communication skills. Planning, organizing, and executing community projects have honed their leadership abilities and fostered teamwork.Participation in extension activities has instilled a sense of civic duty and responsibility among students.Students have actively engaged in community service initiatives, contributing to the betterment of society.

Empowered with knowledge and skills, students have become advocates for social change, promoting active citizenship and civic engagement among their peers.The outcomes of extension activities over the past five years highlight their significant impact on the neighborhood community and the holistic development of students.Through these initiatives, community empowerment, social cohesion, student sensitization to social issues, leadership development, and civic engagement have been fostered, creating a more inclusive, resilient, and socially conscious society. Moving forward, continued collaboration between educational institutions and communities will be essential in addressing ongoing challenges and promoting sustainable development. The program not only benefits communities, but also plays a crucial role in shaping responsible and socially conscious citizens

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

3.4.2

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

Response:

Our Sudharsan Engineering College students have participated regularly in activities like blood donation camps, cleaning programs, temple premises cleaning, pond cleaning, awareness rallies, tree plantations, eye camps etc. Recognition from government and government-recognized bodies serves as a testament to the impactful extension activities undertaken by our National Service Scheme (NSS) volunteers and Sudharsan Engineering College in collaboration with the village president and the local community. The

participation in social responsibility activities is greatly appreciated by government officials and other government-recognized bodies such as Village Panchayats. The accolade served as a validation of our institution's efforts in fostering meaningful partnerships and driving positive change within the community.

The village president has consistently acknowledged the significant contributions of our NSS volunteers and college in uplifting the community.It is the social responsibility of any academic institute to contribute to social activity and community development. As a responsible higher education institution, Sudharsan Engineering College is well aware of its roles and responsibilities for social activity and community development. To contribute, though a little bit, to ease the lives of the neighborhood community and society, our students are motivated to participate in various activities like cleanliness drives, blood donations etc.This award recognized our institution's outstanding commitment to community development through innovative and sustainable extension activities.

The National Service Scheme of the Sudharsan Engineering College regularly organizes blood donation camps.In recognition of the invaluable contributions made to community well-being through the exceptional organization of the blood donation camp, Government Medical College, Pudukkottai and Tamilnadu State Blood Transfusion Council, Chennai presented awards to our College.

The National Service Scheme of the Sudharsan Engineering College has earned the appreciation for its unwavering commitment to maintaining cleanliness and fostering a sustainable environment. This accolade celebrates the collective efforts of the community in preserving the natural beauty and promoting a healthy, hygienic living space for all residents.

Awards and recognitions received for extension activities, from the village president and Primary Health Centre to NSS volunteers and our Sudharsan Engineering college, underscore the transformative impact of community engagement and service. They celebrate the dedication, innovation, and collaborative spirit of individuals and institutions in addressing pressing social issues and creating positive change in society. These accolades not only celebrate past achievements but also inspire us to continue striving for excellence in our endeavours. Moving forward, we remain dedicated to leveraging our resources and expertise to address societal challenges, empower communities, and create a more equitable and inclusive society. As we continue our journey of service and advocacy, these accolades serve as reminders of our collective responsibility to uphold the values of empathy, compassion, and social justice in all our endeavours.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

3.4.3

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

Response: 61

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

2022-23	2021-22	2020-21	2019-20	2018-19
17	12	10	16	6

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

3.5 Collaboration

3.5.1

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

Response: 63

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	[View Document](#)
List of year wise activities and exchange should be provided	[View Document](#)
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

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

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

Response:

Institutional Commitment to Infrastructure: The institution is committed to providing outstanding physical facilities for teaching and learning. Consistently upgrading its 25-acre campus with lush greenery, it boasts of a built-up area of 34417 sq. meters, featuring classrooms, laboratories, computing equipment, and more.

Value-Added Courses and Activity-Based Learning: The institute supplements academic teaching with value-added courses, activity-based learning, and laboratory-oriented theory classes to align with industry requirements. Beyond regular hours, the physical infrastructure is efficiently used for co-curricular and extra-curricular activities, placement training, campus recruitments, meetings, seminars, and conferences.

Classroom Features: Classrooms are well-equipped with a blackboard, stage, proper lighting, fans, good ventilation, and Wi-Fi for ICT-enabled learning. There are a total of 42 classrooms with 5 of them equipped with Projectors to enhance the teaching-learning process.

ICT Infrastructure: The college houses 603 computers connected to a local area network (LAN), contributing to an enhanced administrative and examination framework.

Spacious and Well-Equipped Laboratories: The laboratories are spacious, well-furnished, and feature good ventilation and lighting. They are equipped with essential equipment to meet curriculum requirements.

Seminar Halls: The institution provides seminar halls with LCD projectors, computer workstations, audio-visual facilities, and wireless internet to facilitate effective presentations and discussions.

Library: SEC's spacious, well-ventilated library covers 809.05 sq. meters, hosting a vast collection of books and journals with open access. Each department has its own library. Fully automated with ILMS Digital Lib, it enables student access to DELNET and e-resources with modules like Master, Report Management, Circulation Control, and Bar-coding.

ICT enabled classroom facilities: The class room, seminar halls and Auditorium are equipped with LCD projectors, audio systems, green boards and a computer with Internet connectivity. The smart class

room is facilitated with Interactive boards and other ICT facilities.

Cultural activities: Our institution provides ample spaces for diverse cultural events, featuring a well-equipped auditorium with excellent PA and audio systems. The annual college cultural fest, along with the Fine Arts Club, showcases various activities, emphasizing students' talents. Clubs contribute to all-round development for a holistic educational experience.

Yoga Centre and Gymnasium: SEC offers excellent Yoga Centre and Gymnasium facilities.

Sports: SEC offers extensive sports facilities for outdoor activities like basketball, handball, cricket, and more, with high-quality equipment. It also provides well-equipped storage for sports gear, including indoor game rooms.

Transport and Cafeteria: SEC offers transport with seven buses on diverse routes, covering up to 60 km. Prioritizing community well-being, it provides a healthcare center with first aid and ties with Sathiyamangalam hospital for emergencies.

Cafeteria prioritizes hygienic food, ensuring comfort for students and staff with ample seating in a clean environment.

Miscellaneous: SEC's facilities include a RO water plant, fire extinguisher, CCTV, generator, biogas plant, and rainwater harvesting. NSS contributes to community development.

The institution is firmly committed to providing superior infrastructure for quality education and academic development.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

4.1.2

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

Response: 19.76

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

2022-23	2021-22	2020-21	2019-20	2018-19
0	106.8	50.53	0.15	0.30

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)	

4.2 Library as a Learning Resource

4.2.1

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

Response:

College library is well-equipped with facilities and technologies to support the academic and research needs of students and faculty. With an area of 809.05 sq.m the library provides ample space for students to study and research. The Open Access System followed by the library ensures easy access to books and materials without any restriction or formalities. The salient features of the Library Management Software as mentioned are as follows:

The library has a large collection of books, journals, e-books, magazines, and non-book materials with a separate reading room. The library is automated by "**Digital Lib**" software. The library is linked to an ILMS, which consists of ten computers linked to a single server. All the e-journals and e-books purchased by the library are accessed through software.

Web OPAC is one of the online resources related to the availability of books, question banks, journals, CDs, project reports, etc. The library has a sufficient number of systems with internet facility. The library has transaction which is automated by using bar codes. The college library is open for faculty members, and students during college hours and after hours also and the user's entry details are properly monitored. Faculty members and students are encouraged to utilize the resources in the library to enrich their knowledge and understanding of the subjects. Weekly library hour is incorporated in the timetable to support the students to benefit from the library without having to miss any classes. The college library has 28364 volumes, 8303 titles, 6 numbers of newspapers, 60 periodicals, 36167 e-journals for staff and student references. The renewals of books and journals subscriptions, CDs, Project reports, and other non-book materials purchasing are updated on time.

Digital library

The institution's digital library has many materials in all disciplines including sources like GRE, ISI

codes in digital format. It provides several online electronic databases like IEEE, ACM, ASME, and ASCE online like CD-ROM databases. Students can access NPTEL/SWAYAM, lectures effectively.

Our institution also has an institutional membership with DELNET since 2015 and renewed every year. The DELNET subscribes e-resources like e-books, e-journals, videos, dissertations and students can access without any hindrance.

The central library has separate section for GATE, TANCET, UPSC, TNPSC, CAT, Quantitative Aptitude, Reasoning etc., and other competitive examinations (Bank, RRB and BHEL).

Library has provision for students to refer back volumes of university question papers (question bank). Library hours are included in the regular timetable wherever possible; so as to enable students to access the library effectively.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

4.3 IT Infrastructure

4.3.1

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

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

Response:

Computer Resources:

The Sudharsan Engineering college has Excellent IT facilities which is primarily designed to provide students and faculty with open and equitable access. In our institution 603 Computer Systems are available in our campus with LAN connection. Furthermore, the institution's administrative and examination framework have benefited from the same.

IT Infrastructure Management:

The main computer centre of Sudharsan Engineering College supports the Institute with LAN network that connects all the departments, hostels, library and college offices. A separate admin team is taking care of the IT related requirement of the campus such as system administration and technical support which includes software installation, network monitoring, internet connection and digital library. All the department faculty rooms and offices are provided with internet facilities for the convenience of the students, faculties and office staff members.

Wi-Fi and Internet:

Institution provides 100 Mbps 1:1 leased line Internet connectivity. The bandwidth was increased to 50 Mbps from 20 Mbps on 10.05.2021. It was subsequently increased to 100 Mbps on 4.09.2023. The internet can be accessed from desktop through LAN and Wi-Fi in different departments which are interconnected through switches. Our entire campus has various Wi-Fi access points to enable the students to access educational resources. The Computer laboratories are secured through Firewall. Using firewall, threat protection, VoIP security, VLAN, content/packet filtering, URL Blocking, anti-spam, anti-virus, intrusion detection & prevention are endorsed to securitize. Our Institution has created unique mail id in our college domain for all the faculty members and the students. Bulk SMS facility is also available to communicate important messages to all the students and faculty members. To enhance the programming skills of the students, training programmes are periodically organized.

CCTV Surveillance:

Effective CCTV Surveillance network is available all over the campus. It helps to monitor our campus, staff members, workers and activities of the students especially at the time of examination. LCD Projector, Printers and Scanners are effectively utilized for academic purposes. Adequate number of class rooms & seminar halls are equipped with LCD projectors and Wi-Fi facility to deliver presentations. Online placement drives, industrial training and classes are conducted for the students to enhance their skills as a part of ICT mode of learning.

Updating IT Policies:

The computer systems are upgraded periodically based on the gradual increase in intake of the students. Student computer ratio is maintained as per norms requirement of AICTE. All the laboratories are deployed with licensed software which are used for classes, laboratories, research work, training, certification programmes are procured and being used in the campus. To carry out the research and project activities highly configured systems, necessary software, hardware devices are purchased based on the requirements. The internet bandwidth connectivity is upgraded based on the requirement to provide   the quality internet connectivity. Based on the revision of the syllabus, the required software is purchased and licences are renewed periodically.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

4.3.2

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

Response: 2.77

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

Response: 127

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	[View Document](#)
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

4.4 Maintenance of Campus Infrastructure

4.4.1

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

Response: 28.95

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)**

2022-23	2021-22	2020-21	2019-20	2018-19
22.26	29.53	11.57	69.87	97.85

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

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

Response: 96.37

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

2022-23	2021-22	2020-21	2019-20	2018-19
339	322	291	380	501

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

5.1.2

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

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

Response: A. All of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	[View Document](#)
Report with photographs on ICT/computing skills enhancement programs	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

5.1.3

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

Response: 78.55

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**

2022-23	2021-22	2020-21	2019-20	2018-19
245	210	257	329	453

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.1.4

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

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

Response: A. All of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	[View Document](#)
Proof related to Mechanisms for submission of online/offline students' grievances	[View Document](#)
Proof for Implementation of guidelines of statutory/regulatory bodies	[View Document](#)
Details of statutory/regulatory Committees (to be notified in institutional website also)	[View Document](#)
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

5.2 Student Progression

5.2.1

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

Response: 82.02

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

2022-23	2021-22	2020-21	2019-20	2018-19
51	53	98	67	64

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

2022-23	2021-22	2020-21	2019-20	2018-19
51	63	124	88	80

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	**View Document**
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	**View Document**
Institutional data in the prescribed format	**View Document**
Provide Links for any other relevant document to support the claim (if any)	**View Document**

5.2.2

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

Response: 2.74

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

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	01	01

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	**View Document**
Institutional data in the prescribed format	**View Document**
Provide Links for any other relevant document to support the claim (if any)	**View Document**

5.3 Student Participation and Activities

5.3.1

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

Response: 40

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*

2022-23	2021-22	2020-21	2019-20	2018-19
10	10	4	8	8

File Description	Document
Upload supporting document	[View Document](#)
list and links to e-copies of award letters and certificates	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

5.3.2

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

Response: 24.2

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

2022-23	2021-22	2020-21	2019-20	2018-19
22	33	23	23	20

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.4 Alumni Engagement

5.4.1

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

Response:

Sudharsan Engineering College Alumni Association (SECAA) is a platform through which the alumni get in touch with their alma mater and with their classmates. The primary objective is to reconnect and revisit their rich memories, connect with classmates, and share the rich experiences gained over the years. The driving force behind SECAA is to encourage vibrant student-alumni interactions that would benefit our students in terms of learning and equipping themselves to be industry-ready.

Interaction with alumni is ensured to bring current technologies practiced in the industry to the institute. Alumni share the opportunities available and the skill set required by the industry through Guest lecture and Seminar/Webinar.

The association conducts Alumni meet regularly. The Institute established alumni cell in 2006 to maintain a good linkage between institute and alumni and the Alumni Association was registered in 2023. The association helps in building a network of the alumni and helps in being abreast of the trends in the industry and the corporate world.

Every year Alumni meet is hosted by the Alumni association and supported by the Management. This paves an opportunity for the alumni to meet other alumni and cherish their past experiences and moments.

Curriculum Enrichment:

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

As a Recruiter:

Many alumni share the opportunities available in their organization with the students and many eligible students were recruited.

As an Entrepreneur:

Successful alumni entrepreneurs are invited to interact with the students, which motivates the budding engineers to become entrepreneurs. The hurdles and the strategies to overcome were shared by them to

give a clear idea for the students to emulate the successful entrepreneurs.

Reviving Memories:

The Alumni Meet was not just a celebration of achievements but also a journey down memory lane, as alumni revisited their favorite spots on campus and relived cherished memories from their student days.From the iconic library to the bustling canteen, every corner of Sudharsan Engineering College held a special place in their hearts, reminding them of the bonds forged and lessons learned during their time at the institution.

Looking Towards the Future:

As the Alumni Meet drew to a close, alumni departed with a renewed sense of pride in their alma mater and a commitment to stay connected with the Sudharsan Engineering College community. The event served as a reminder of the enduring bonds that unite us as graduates of Sudharsan Engineering College and the potential for collective impact when we come together in pursuit of common goals.

Conclusion:

The Sudharsan Engineering College Alumni Meet in Pudukkottai was a resounding success, bringing together alumni from near and far to celebrate shared memories, achievements, and aspirations. As we bid farewell to another memorable gathering, we carry with us the spirit of camaraderie and excellence that defines the Sudharsan Engineering College community, knowing that our bonds will continue to strengthen and our legacy will endure for generations to come.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

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

Response:

VISION

Be the best and continuously improve.

MISSION

Offer the highest quality engineering education in a backward area and bring out engineers with state of the art professional skills, to protect the safety, health and welfare of the society.

QUALITY POLICY

Commitment to provide high quality technical and management education through teaching learning process of world standards.

Commitment to raise the level of this institution to a center of excellence in technical and management education, with international recognition.

CORE VALUES

To make a man whole

Academic Excellence

Integrity, Diversity and Leadership Development

Service to the Nation

Motivation to face futuristic challenges

NATURE OF GOVERNANCE

Nature of governance is the process of decision-making and control within an institution. Good governance is essential for the success of the institution, as it ensures that decisions are taken in the best interest of all stakeholders in a transparent and accountable.

Various verticals have been formulated for the effective functioning of our institution. Each vertical has independent heads that take decisions in line with institution policy in consultation with the principal/management.

The various cells functioning are Governing Council, Grievance Redressal committee, Internal Compliant Committee, Anti-Ragging Committee, Women Empowerment cell, Training and Placement, R&D, Alumni Association, Institute Industry Interaction cell, NSS, IPR & ED cell, Centre for Professional Development etc.,

PERSPECTIVE & DEVELOPMENT PLAN

Perspective plans are plans that are created to provide guidance and direction for an institution. They outline of the vision, objectives, strategies and tactics that the organization will use to achieve its goals. Perspective plans are typically developed over the course of past years and are used to guide the organization's decision making and operations. The purpose of a perspective plan is to provide a framework for the organization to use when making decisions about the future. The plan should be used to measure progress and evaluate the strategies and tactics that the organization is using to reach its objectives. A perspective plan typically begins with an analysis of the current situation, including the organization's strengths and weaknesses, current challenges and opportunities. This analysis should be used to develop the organization's vision, mission and values. From there, objectives and strategies should be identified and detailed. These objectives and strategies should be measurable and should be consistent with the institutional values and mission. The tactics and activities that will be used to achieve the objectives should then be outlined. These tactics should be specific and actionable. Finally, the plan should include

- To frame the effective Teaching & Learning Process.
- To strengthen the student's academic potential and employability / entrepreneurship skills.
- Improving Entrepreneurship Development and Industry-Institute-Interaction.
- Engaging extension and outreach activities.
- Promoting of Research among staff and students.
- Improving Quality Assurance and sustainability.
- Establishing Centre of Excellence for various departments.
- Enhance alumni engagement.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

6.2 Strategy Development and Deployment

6.2.1

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

procedures, etc

Response:

SEC was founded in the year 2000 by the Sudharsan Educational Trust with the aim of disseminating knowledge in the fields of science, engineering and technology in the rural district of Pudukkottai. The college is approved by the All India Council for Technical Education and is affiliated to Anna University.

SEC offers 7 Under-Graduate Programmes in the fields of Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Computer Science and Engineering and Artificial Intelligence and Data Sciences.

SEC has an excellent infrastructure, well-equipped Laboratories and Workshops, state-of-the-art Computer and IT Center, Central Library, spacious Auditorium, hygienic Canteen, and separate hostels and gyms for boys and girls.

All the branches of Engineering and Technology have their own Technical association which organizes Technical meetings, symposia, etc. in their respective discipline. National level technical symposia are conducted every year. The valuable inputs gained help the students to hone their technical, managerial and organizational skills.

Institutional Bodies :

Our Educational Institution has various institutional bodies for efficient and effective functions are

- Governing council
- Anti – Ragging committee
- Academic Council
- Internal Complaints Committee
- Institution's Innovation Cell
- Internal Quality Assurance cell
- Grievance Redressal cell
- Training and Placement cell
- Institute Industry Interaction Cell
- SC/ ST committee
- Alumni Association
- Cultural committee
- Sports committee
- Women Empowerment Cell
- OBC Cell
- Minority Cell

Deployment of Institutional Strategic plan

The Institution has plans for the development of Strategic/ Perspective plan for the period from 2022 – 2026.

- To get NAAC Accreditation for the institution by 2024.
- To become an Autonomous Institution by 2025, and to get research centre recognition for all eligible departments.
- To establish Centers for Excellence and Professional Labs in collaboration with industries and institutions for each department by 2026.
- To motivate all faculty members to register for Ph.D by 2026.
- To encourage the students participation in co-curricular/ extra-curricular activities.
- To Improve the Employability skills of the students to be industry ready.
- To get funds from various funding agencies to organize Conferences/ Seminars/ Workshops / FDP.
- To encourage faculty members to publish papers in reputed International/ National Journals with good impact factor.
- To intensify the activities of Institution's Innovation cell for undertaking more industry oriented project

File Description	Document
Upload Additional information	[View Document](#)
Institutional perspective Plan and deployment documents on the website	[View Document](#)
Provide Link for Additional information	[View Document](#)

6.2.2

Institution implements e-governance in its operations

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

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	[View Document](#)
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	[View Document](#)
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)	

6.3 Faculty Empowerment Strategies

6.3.1

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

Response:

Teaching and non-teaching staff play an important role in the institute's growth. The institute recognizes their productivity and recognizes their needs and requirements on a regular basis. As a result, the institution is putting in place a variety of effective welfare programmes. These improve employee's physical and mental health, promoting a dynamic and encouraging work environment.

Welfare Measures for Teaching and non-Teaching staff

- Providing financial support towards membership fees of professional bodies
- Free accommodation is provided to faculty who stay in the hostel
- Granting special leave for weddings
- Transport facility provided for all the staff members with concession
- Cash incentives are given to the faculty members, those who produce 100% academic result
- Providing financial support towards attending conference, workshop and FDP
- Maternity benefits for women staff as per norms
- Free Wi-Fi Facility
- 5 days paternity leave
- Six days of medical leave each year
- Refreshment given to Faculty

Performance Appraisal

Sudharsan Engineering College has implemented an appraisal system for staff to ensure that their performance is evaluated and rewarded adequately. The appraisal system is based on a combination of quantitative and qualitative criteria, such as work quality, teamwork, efficiency, personnel development and innovation. Our college also provides training and development opportunities to help the faculty reach their professional goals and become more productive. Finally, the system should also include appeal process for staff to address any grievances they may have.

Performance Appraisal System

Phase I : Appraisal Form Distribution

Appraisal forms are distributed to the individual faculty

Phase II : Academic Faculty Evaluation Committee

The Committee comprise of Principal and HoD's of respective department for the evaluation of the faculty. The principal evaluates and examines overall performance based on the class committee meeting and students' end semester feedback collected through online on various aspects like coverage of syllabus, ability to explain the concept clearly, interaction in class, discipline, Punctuality and the capacity to operate as part of a team.

Phase III : Management Evaluation committee

The Principal and HOD in collaboration with management will assess faculty members based on their performance in that academic year. They review all processes involved in the performance appraisal system through one-on-one interactions with staff, and decisions will be made appropriately.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

6.3.2

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

Response: 53.87

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**

2022-23	2021-22	2020-21	2019-20	2018-19
50	11	13	44	56

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

6.3.3

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

Response: 83.71

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

2022-23	2021-22	2020-21	2019-20	2018-19
72	67	63	63	69

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

2022-23	2021-22	2020-21	2019-20	2018-19
20	15	14	14	13

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Copy of the certificates of the program attended by teachers.	[View Document](#)
Annual reports highlighting the programmes undertaken by the teachers	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1

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

Response:

Tuition fees serve as the Institute's primary source of funding. The tuition fee is set in accordance with government regulations, expenditures from the prior year, and the effects of inflation during the next three years. The Institute includes infrastructure and the expenses required to meet the requirement of the curriculum. The internal fee regulatory committee gives the institute flexibility in how much money can be set aside for the capital expenses that the institute is slated to make over the next three years.

The Sponsoring trust, THE SUDHARSAN EDUCATIONAL TRUST,extends financial support to the Institute for the shortfall and ensures the availability of requisite funds.

Budget Preparation

Based on the budget presented by the HODs of all departments and other competent authorities of the institute, the Principal is producing the consolidated budget proposal and submitting it to the Governing Council for approval. The Governing Council approves the budget after considering the income and expense statement from the previous year as well as the activities planned for the upcoming academic year. The institute has a strong internal and external audit process in place to validate income and expense reports, and the thorough audit report is forwarded to management by the Principal.

Optimal utilization of resources

Based on the estimates received from the Institute's departments and functional units, an annual budget is prepared to ensure the best use of financial resources. The Managing Committee/Board of Governors

approves the amount. Income and expenditure statements are prepared monthly.

Audits are performed on a regular basis to ensure that the budget is being used to its full potential. The resources, in the form of facilities and equipment, are kept in good condition to ensure peak performance.

Internal Audit

The finance officer-led finance department manages the collection of tuition fees,salary distribution, tax payment, loan distribution, purchase orders for all required materials, and maintenance(Finance). The institution takes great care to maintain correct records. Additionally, the finance officer regularly double-checks the budget and an internal audit is conducted every year and their findings are submitted to the Principal. Management and the Principal will respond to the internal audit findings and will take necessary actions to guarantee that income and expenses are in line with the budget proposal.

External Audit

The external auditor is chosen by the Management team. The external Auditor frequently visits the office to review the financial records. When the audit is finished, the auditor presents the audit report to Management for their evaluation. An external audit is carried out every year. The company always submits its income tax returns well before the due date.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

6.5 Internal Quality Assurance System

6.5.1

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

Response:

To maintain quality standards in Teaching learning and evaluation and to impart quality education, Internal Quality Assurance Cell has been formed.

Quality Assurance Strategies:

1. To Ensure timely, efficient and progressive performance of academic administrative and financial tasks
2. To impart the quality of academic and research programmes

1. To optimize and integrate the modern methods of teaching and learning
2. To satisfy the stakeholders by fulfilling their requirements by collecting frequent feedback's.
3. To develop the skills of young engineers through training and development activities.
4. To ensure the adequacy, maintenance and proper allocation of support structure and services.
5. To channelize and systematize all efforts and measures of the institution towards academic excellence.

Institute follows various processes towards quality enhancement. Among these the following four methods are explained.

Assessment:

Internal assessment is crucial in the educational context for several reasons, playing a significant role in the overall learning and evaluation process. Assessment within the context of Outcome-Based Education (OBE) aligns with the fundamental principles of OBE, which focuses on defining clear learning outcomes and assessing whether students have achieved those outcomes. Designing a question paper based on Bloom's Taxonomy and course outcomes involves aligning the questions with the cognitive skills and learning objectives specified in the course. HoD will approve the question paper after verifying its conformance to the norms. Result analysis is done and appropriate corrective actions are recommended to the concerned department. Quality of the internal assessment question papers is ensured by the IQAC through the respective HoD.

Feedback Mechanism:

To enhance the quality of Teaching-Learning process and other academic performance activities, frequent feedback is collected from the stakeholders. The feedback is analyzed and suitable action is taken.

MOU with industries:

The gap between the industries and institution is reduced by MOUs. The activity served by the industries boost up the students to acquire knowledge based on industrial side. Apart from the knowledge of curriculum, the collaboration with industries is used to gain knowledge in technology development through in-plant training, Internships and Projects.

Value Added Course:

Value added course is the part of our academic delivery which is used to acquire knowledge and skills. It prepares our students to update the latest trends and to improve their technical skills further.

Faculty Development Programs:

Faculty Development Programs will not only promote the professional practices relevant to technical education but also motivates the faculty to achieve competitive teaching and learning environment, thus channelizing development with respect to academic qualifications and personal matters. IQAC has organized FDPs related to quality teaching learning and quality enhancement.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

6.5.2

Quality assurance initiatives of the institution include:

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

Response: A. Any 4 or more of the above

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

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

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

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

Response:

- To create gender equity, our institution has established Women Empowerment Cell. The aim of Women Empowerment Cell is to empower girl students and faculty to enhance their understanding of issues related to women and to make the college campus a safe place for girls and women.
- Women Empowerment Cell organizes motivational talks inviting successful women from various walks of life which strengthen the students to face and solve their issues by themselves. The Cell educates the students about Women's Rights and Gender issues .Students of both the genders are given equal opportunities to grow and develop into responsible citizens of the future. College makes efforts to maintain gender balance among the faculty members, administrative and housekeeping departments.
- We have taken measures to tighten security in our campus. Sudharsan Engineering College has a separate boy and girl's hostel. Day scholars who travel by college bus are segregated based on the gender in the bus girl students are provided with a separate common room and sick room where they can relax during break hours or can be used by sick students to take rest.
- The College has CCTV surveillance throughout the campus. Proper lighting arrangements are provided throughout the campus at all key locations, classrooms and common areas. .Our college has rest room facility in all floors. Housekeeping staff are directed to take care of the cleanliness of the Campus from time to time as per schedule and is followed meticulously.
- Sudharsan Engineering College has Clubs and Committees to address the needs of girl students. They are Women Empowerment Cell, Students Grievance and Redressal committee, Anti Ragging Committee and Internal Complaint Committee. They ensure that student problems are addressed promptly and effectively. A suggestion box has been placed on the premises of the college to ensure redressal of grievances and create proactive response to students' requirements.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

7.1.2

The Institution has facilities and initiatives for

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

Response: A. 4 or All of the above

File Description	Document
Policy document on the green campus/plastic free campus.	[View Document](#)
Geo-tagged photographs/videos of the facilities.	[View Document](#)
Circulars and report of activities for the implementation of the initiatives document	[View Document](#)
Bills for the purchase of equipment's for the facilities created under this metric	[View Document](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)

7.1.3

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

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

Response: A. All of the above

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

7.1.4

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

Response:

Sudharsan Engineering College is a secular campus which gives equal importance to all religions, languages and cultures. The students come from various socio economic and communal backgrounds. The Management and faculty create a sense of belonging in all of them. A multitude of efforts are taken to help the students adapt into the college mainstream and get the benefits of all the opportunities provided by the institution. In addition, the students are taught about their rights and responsibilities as citizens of this nation. They are encouraged to become responsible professionals who contribute to the well-being of the nation.

Initiatives taken by our college to ensure tolerance, harmony, cultural, regional, linguistic, communal socioeconomic, values, rights duties and responsibilities:

- Celebrating the National festivals, seasonal festival changes student's attitude towards mother Earth and nature. Religious festivals teach students about the importance of family, tradition and values
- International festivals will create an increased cheerful ambiance and deepen the bonds with other races.
- All the students in the College are given equal opportunities to participate in all events of the College without any discrimination.
- Acceptance of the diverse culture and harmony towards the regional, communal, socio economic and other diversities, which are an integral part of our campus culture, are showcased by participation of the students during the cultural festivals
- The Institution has students and staff from different communities and hence all the national

festivals are celebrated with great zeal in the Campus. Diwali, Onam, Navaratri, Pongal, Christmas and Ramzan are celebrated in the College every year. The Institution celebrates Republic day and Independence Day by hoisting the Tricolour National Flag followed by patriotic speech of the students. The College organizes a grand cultural event on the occasion of Teachers day every year.

- The college celebrates college day, Sports day, Cultural day, and International Women's Day etc., to give our students the opportunity to display their talents.
- Outreach and Extension activities organised by NSS team to serve the people in the nearby villages creates a sense of social responsibility among the students. Our NSS team take active participation in social development events like, medical camps, blood donation camps and Awareness programmes in local schools. It promotes teamwork among the students which in turn promotes harmony.
- The students are given awareness of their rights and duties as a responsible citizen with the support of Guest lecturers and awareness camps.
- The students are also advised to stay away from unethical behaviour, contra brands like alcohol, smoking and drugs. It is strictly prohibited inside the campus and violators will be counselled, warned and monitored till they mend their ways.

Students are given awareness about the basic constitutional rights and their rights to use the college campus for acquiring academic knowledge.

File Description	Document
Upload Additional information	[View Document](#)
Provide Link for Additional information	[View Document](#)

7.2 Best Practices

7.2.1

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

Response:

BEST PRACTICE 1

TITLE: Practice Oriented Learning through on-campus E-Box skill centre using E-Box platform. The platform is built with a proprietary LMS base which makes both assessment and learning management integrated.

OBJECTIVES OF THE PRACTICE

- To up skill the students to meet the requirements of the Corporates.
- To assure a quality learning experience

- To provide 24 x 7 Support with online on the E-Box platform
- To enable Auto Evaluation
- To assist Learners during their course of Study using AI Blended Learning
- To provide Personalised and Adaptive learning based on the students' Interest and Calibre
- To obtain Real time metrics for an Auto Corrective Learning Process

THE CONTEXT

- The college is situated in a backward rural place in Pudukkottai district and the students, mostly from rural places, lack exposure to latest developments in the industry
- E-Box skill centre was established in the college premises to up skill the students in the industry-relevant topics and assess them for industry-readiness
- It offers various certificate courses covering the latest technological advancements
- Successful candidates will get certificates from amphisoft.
- E-Box, an AI based learning and assessment platform is used in the teaching-learning process
- The E-Box platform provides 24x7 (open source) online support with a secure individual login and password for our students and the faculty mentors.
- It helps to learn pre uploaded videos for every course.
- It boasts of Live Interactions with Industry Mentors, Anytime-Anywhere Learning, Less Lectures More Tutorials & Practicals, Intellectual Ecosystem.

THE PRACTICE

- The skill centre offers various certificate courses covering the latest technological advancements
- Successful candidates will get certificates from amphisoft.
- It uses E-Box skill centre in teaching-learning.
- It enables the students to enroll the courses based on the Anna University regulation and other role based courses.
- Using e-box the students will improve their knowledge by solving 100 to 150 problems under different contexts.

iAssess- In this session, one will have activities to self-assess

- It has Bloom's Level of knowledge based problems which includes the following sections
- iLearn - This session has video lectures and other resources to learn the concepts.
- iExplore - This session has interesting set of activities which will make them explore more on the specific topic.
- iAnalyse - This session has varieties of exercises to improve one's code analysis, testing and debugging skills.
- iDesign - This session makes one to start designing and creating one's own programs.
- iAssess- In this session, one will have activities to self-assess one's knowledge and skills on the specific topic.
- The faculty can view, delete and download the assessment taken by all their enrolled students and record the classes, download the test and attendance record is fully automated,

- Students can download the course materials.
- E-box stable platform is used for providing AI blended learning
- Students will develop their skill and knowledge with the smart usage by viewing their progress in their login.
- This platform becomes the online resume for every student from first year of their higher education in engineering.
- The student can enroll any number of courses which includes trainer driven programs like C Basics for Beginners, Java Full stack, Python Programming- functional, oops, MySQL, and Self-Paced Courses like
- IT Skill Courses- One can Choose from a gamut of IT Skill Courses and achieve your career goal with Industry recognised Skill Courses.
- Electronics Skill Courses- Master various Electronics Skill Courses designed as per Industry Needs and Industry Standards.
- Company Specific Practice Assessments- Company Specific Mock Assessments and bag the right job.
- Niche IT Skill Programs- upskilling and reskilling programs
- Mechanical Skills- Cutting edge Curriculum, Real world Projects & Personalized Mentor Support.
- Faculty members can take coding classes in this open source free platform.

BEST PRACTICE 2

TITLE: Our College is a Nodal Centre for ISRO-IIRS Programme through which we strive to promote widespread adoption of Remote sensing and Geospatial technology education, and empower faculty and students for professional advancement.

OBJECTIVE OF THE PRACTICE:

- **Promote widespread adoption of geospatial technology education:** Equip faculty and students with essential skills and knowledge in geospatial technology, fostering its integration into diverse academic disciplines.
- **Enhance teaching and learning experiences:** Utilize IIRS expertise and resources to develop high-quality online courses, workshops, and training programs.
- **Build a regional hub for geospatial knowledge:** Establish Sudharsan Engineering College as a leading center for geospatial education, fostering collaboration and knowledge sharing within the region.
- **Empower faculty and students for professional advancement:** Equip participants with industry-relevant credentials and skills, increasing their employability and career prospects.

THE CONTEXT:

Sudharsan Engineering College recognized the growing importance of geospatial technologies in various fields and the lack of readily available education and training opportunities in this area. This need, coupled with the college's commitment to providing its students with cutting-edge knowledge and skills, drove them to become a Nodel Center Coordinator for the IIRS Outreach Program. By offering this program, the college aimed to:

- **Bridge the gap** between theoretical knowledge and practical application of geospatial technologies.
- **Empower faculty and students** with relevant skills and expertise, enhancing their employability and research potential.
- **Contribute to the advancement** of geospatial technology education in the region.

THE PRACTICE:

- Sudharsan Engineering College, under the leadership of Principal Dr. K. Srinivasan, has played a pivotal role in implementing the IIRS Outreach Program in the following ways:
- **Active Engagement:** As the Nodal Centre Coordinator, the college proactively liaises with IIRS, disseminating information about the program to affiliated institutions and organizing awareness workshops.
- **Comprehensive Offering:** The college has successfully conducted 7 diverse courses encompassing various aspects of geospatial technology, catering to the diverse needs of faculty and students.
- **Structured Implementation:** Each course adheres to a well-defined format, including interactive lectures, practical sessions, and expert guidance from IIRS faculty.
- **Certification and Recognition:** The college facilitates the issuance of official certificates from IIRS to both faculty and students upon successful completion of the program, adding value to their academic credentials.
- **Promoting Excellence:** The college goes beyond the basic program requirements by organizing additional seminars, workshops, and guest lectures to deepen knowledge and encourage further exploration of geospatial technologies.

File Description	Document
Best practices as hosted on the Institutional website	[View Document](#)
Any other relevant information	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1

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

Response:

Sudharsan Engineering College has always taken pride in its advantages of its rural location and with 24 years of rich history, it proudly stands as the one of the oldest institution in the Pudukkottai district, shouldering the challenging responsibility of meeting the educational needs of the underprivileged and needy. A significant majority of students hail from financially constrained backgrounds, with many being first generation learners. The college is committed to the holistic and sustainable growth of its students,

aiming to uplift economically weak rural youth and nurture them into responsible citizens of our country.

The college's distinguishing factor lies in its emphasis on supporting economically weak students to develop them into well-rounded personalities, equipping them to tackle global challenges. To achieve this, college provides them with management tuition fee exemption to all the eligible students.

The Fee structure is maintained at a moderate level, considering the economic challenges faced by the majority of students. Additionally, disadvantaged students are provided with total tuition charge exemption through scholarship and financial aids. The administrative officer proactively inform students about the various merit scholarships offered, extending full cooperation to help them seize these opportunities. Meritorious students are acknowledged for their hard work through merit scholarship and fee concessions .By recognizing their resilience and providing targeted support, the college contributes to their personal growth and success, enabling them to excel academically and prepare for a promising future.

Management Scholarship Policy:

The Sudharsan Engineering College was established in 2000 with the vision of being the best and continues to improve technical education for students from rural backgrounds. Taking into consideration the economic status of the students and to assist them in realizing their academic dreams, our institution has decided to provide scholarships for the students who come from economically backward families.

The Management made the following policy decisions as providing scholarships to deserving students who come from socio economically challenged category.

Full Fee Waiver:

1. Students who scored more than 85% in the higher secondary exam can obtain a 100% tuition fee waiver.

Partial Fee Waiver:

1. Special Fee concessions will be provided to the sports person who is awarded by the state or central government

2. Special Fee concessions will be provided for the students with single parent or poor backgrounds

3. Special fee concession will be provided for the students who lost both parents

4. Special fee concession will be provided for the siblings of our students and alumni.

Students those who have backlogs after first semester cannot avail the management scholarship.

Students Benefited:

- Academic Year 2022–23: 36 out of 352 students received management scholarships.

- Academic Year 2021–22: 39 out of 324 students received management scholarships.
- Academic Year 2020–21: 24 out of 299 students received management scholarships.
- Academic Year 2019–20: 13 out of 393 students received management scholarships.
- Academic Year 2018–19: 32 out of 534 students received management scholarships.

Our college apart from management scholarship, by actively supporting and Facilitating government scholarship schemes demonstrates a commitment to providing financial assistance and educational opportunities to a diverse range of students. These initiatives can significantly contribute to promoting inclusivity and equal access to education. By participating in programs such as OBC Scholarship, PMSS (Post Matric Scholarship Scheme), and 7.5 Scholarship, our college is helping students to overcome financial barriers and pursue their academic aspirations.

In addition to the tangible benefits for individual students, our college's involvement in these scholarship programs also aligns with broader societal goals of promoting education and skill development. It reflects a proactive approach to social responsibility and community engagement, fostering a positive impact on the overall educational landscape. Continuing to support such initiatives contributes not only to the academic success of individual students but also to the overall development of a more inclusive and equitable educational environment. It's a positive step towards creating a platform where students from diverse backgrounds can thrive and reach their full potential.

File Description	Document
Appropriate web in the Institutional website	[View Document](#)
Any other relevant information	[View Document](#)

5. CONCLUSION

Additional Information :

Sudharsan Engineering College is an ISO 9001-2015 certified institution . The Vision, Mission, Objectives, Quality Policy and Core values are clearly framed.

The Physical Infrastructure of our college far exceeds the prescribed requirements by AICTE and Anna University in terms of Classrooms and Laboratories.

Faculty Members regularly participate in Faculty Development Programs, Workshops, Conferences and Seminars to enhance their Skills.

Necessary impetus is being given for the augmentation of Research & Development and Consultancy activities.

Awards are given to Faculty Members for their achievements in Research, Academic and Administrative activities. All Students are encouraged to participate in Inter-Collegiate and industry-oriented events at the National level to develop their competitive spirit and be abreast of the latest developments.

SEC has regular schedules for conducting training and placement sessions for all the Students. Students get to interact constructively and regularly with our alumni through Alumni Talk Series.

SEC promotes Entrepreneurship by anticipating current and future needs, bringing actionable and new ideas to the market, and developing Students with the skills and initiatives needed to create more jobs in Society.

A core team of faculty members ably guided by the Principal spent their time and energy in the preparation of the NAAC Documentation.

Concluding Remarks :

The success of a Nation and the mental development of an individual depend on Education. However, in fast developing Nations like India, ignorance and poverty are huge hurdles. It is high time we overcame these obstacles, and Education, especially Technical Education holds the key in doing so. SEC is dedicated to providing Students with an unforgettable learning experience. This is made possible by our meticulous Planning, clear Vision, and mission Statements.

The commitment of our Faculty, Staff, and Students enables us to pursue greatness in Academics, Research, and Governance. In order to critically evaluate our Strengths, Shortcomings, Difficulties, and Opportunities, we prepared a Self-study report as part of our commitment to responsibility.

We are committed to understanding our performance and being accountable to all Stakeholders, which is shown in our participation in the Accreditation process with the National Assessment and Accreditation Council.

Our main Objective is to provide the Students with the Academic edge and perseverance they need to pursue their chosen fields of study at a higher level and chase their dreams. We want to mould our students into responsible, socially conscious individuals who can contribute to Society's Advancement.

For the Welfare and advancement of Humanity, we firmly believe in our motto and are dedicated to developing Individuals into Technologically advanced and Socially responsible Citizens who would protect the safety, health and welfare of our Nation. In Conclusion, SEC is committed to advancing Education as a way to empower people and create a better future for India.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.3.2	**Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)** 1.3.2.1. **Number of students undertaking project work/field work / internships** Answer before DVV Verification : 247 Answer after DVV Verification: 241 Remark : One student involved in multiple field works and/or project work and/or internship in the same academic session should be counted as one. Hence, Number of students undertaking project work/field work / internships - 241.
2.1.2	*Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years* 2.1.2.1. **Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)** Answer before DVV Verification: 	2022-23	2021-22	2020-21	2019-20	2018-19	 |---|---|---|---|---|
98	107	36	56	74 | Answer After DVV Verification : | 2022-23	2021-22	2020-21	2019-20	2018-19 | |---|---|---|---|---|
98	102	36	56	74 | 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: | 2022-23	2021-22	2020-21	2019-20	2018-19 | |---|---|---|---|---|
186	186	186	206	248 | Answer After DVV Verification : | 2022-23	2021-22	2020-21	2019-20	2018-19 | |---|---|---|---|---|
186	186	186	206	248	 Remark : Input edited as per data in template.
3.1.1	*Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)*

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
0	20	0	0	0

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
0	2	0	0	0

Remark : Value converted INR in Lakhs.

| 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:

2022-23	2021-22	2020-21	2019-20	2018-19
2	3	4	2	2

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
2	3	4	2	2

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

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	0	0

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	01	01

Remark : Input changed as per the proofs given in supporting document.

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:

2022-23	2021-22	2020-21	2019-20	2018-19
11	10	4	8	8

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
10	10	4	8	8

Remark : Participation / appreciation certificates and awards from regional/ local/institutional are not considered

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)**

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
45	45	30	30	25

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
22	33	23	23	20

Remark : Events cannot be split into activities. Multiple activities on the relatively closer dates to be considered as one only.

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

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
20	15	14	14	13

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
20	15	14	14	13

2.Extended Profile Deviations

Extended Profile Deviations
No Deviations