SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

SURYA ENGINEERING COLLEGE

SURYA ENGINEERING COLLEGE PERUNDURAI ROAD MANALMEDU
METTUKADAI KATHIRAMPATTI (PO) ERODE
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NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Surya Engineering College (SEC), Erode, is a self-financing Engineering College, run by Sri Andavar Educational and Charitable Trust (SAECT). The Institution is situated on the Erode - Perundurai Highway, precisely at the 7th kilometer mark from Erode. The Institution boasts an expansive and well-developed campus, covering a sprawling area of 15.95 acres.

SEC is dedicated to provide engineering education and is approved by AICTE and Affiliated to Anna University, Chennai. The mention of a "self-financing" status implies that the Institution is not fully funded by the government and relies on tuition fees and other sources for financial sustenance.

The strategic location of the Institution on the Erode to Perundurai Highway suggests accessibility and connectivity for students and faculty. Our campus provides ample space for various facilities, including classrooms, laboratories, library, recreational areas, and Altruistic hostel for students.

SEC aims to become a front-runner in developing teaching and learning methods that reflect best practices in educating young minds, aspiring to make a success in the corporate to move from the realm of ideas to real-world applications.

Our Institution Motto is "Passionate about Innovation"

The Institution is committed in fostering students, the pursuit of individual excellence, and participation in the full range of academic, spiritual, cultural, social, and physical activities to make them progress as all-rounders. Higher Education is the foundation for all future possibilities in the life of a student. Therefore, one must get a thorough grounding in academics as well as moral strength to manage one's life.

SEC fulfills all these goals by creating a congenial environment for the students. Campus life helps the students to strive for the best and to achieve high in their life journey. Our Campus is predominantly a valuable place of hope and encouragement for the students in their life.

Vision

To be an Institute of repute by providing value-based technical education based on industry requirements, ensure that students imbibe the technical knowledge and provide opportunity for their holistic development.

Mission

To provide the necessary infrastructural facilities required for the teaching-learning process, co-curricular & extracurricular activities.

To identify and impart the knowledge and skills required for the industry

To provide Faculty and Staff with the required qualifications to provide opportunities to upgrade their knowledge and skills.

To provide an opportunity for the students to exhibit their inherent talent.

To motivate the students to pursue higher education, competitive exams & other value-added programs.

To develop Quality Engineers and Technocrats with value and ethics as focal points.

To have regular interaction with the industries in the area of R&D, and other consultancy, training and testing services.

To provide value-based technical education for all sections of the society.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

A well-established Institution with 15 years of Academic Excellence.

Seed money to promote research and development activities.

Excellent Infrastructure for academics and administration.

Good library facilities.

Faculty contribution in research and consultancy associated works.

Better transport facilities from various remote areas.

Placement with good package.

Based on recent trends Introduction of updated UG programs.

Good Placement records.

Industry-supported value-added courses.

Management is offering scholarships for meritorious students.

Professional society Chapter for every department.

In-built facility for co-curricular activities.

Excellent infrastructure, Laboratories, and research facilities.

Fee are highly subsidized and helpful to the weaker section of society.

Highly Hygienic food courts.

Highly skilled and experienced supporting faculty.

Flexible and highly supportive management.

Conductive learning environment in a tranquil, clean, and lush green campus.

Our Institution has more than 20 MoU's signed with Industry and R&D firms for research and training.

Institutional Weakness

Institutions are located in rural areas and most of the students are first-generation graduates.

Limited research funding from industries and funding agencies.

International collaboration.

Most of the students admitted to our college are from poor socio-economic backgrounds.

Institutional Opportunity

Faculty contribution in research and consultancy.

Establishing an incubation Centre.

Scope for industry institute interaction.

Increasing the number of UG and PG Programs.

Promoting new startup and entrepreneurship programs.

Strengthen alumni engagement and generate endowment funds.

The college can emerge as a role model in the field of engineering education adapting the best pedagogical tools.

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A greater number of women faculty members in technical education is advantageous.

Institutional Challenge

Research-oriented development.

Creating awareness of digit learning in tier 2 cities is a great challenge.

Recruitment of highly qualified Faculty members and their retention.

Lack of awareness about the importance of higher education among the students and parents in rural areas.

Developing communication skills among the students.

Limited admission to PG courses.

Consultancy and development projects from industries.

To promote the students to pursue higher studies and competitive examinations.

Entry of private and foreign Universities.

Providing 100% placements to the students.

Poor schooling of the students and lack of basic knowledge on some subjects create a problem in the progress of the curriculum's delivery.

Urgent measures are needed to review the course content to make them relevant to the present-day industry requirements.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Surya Engineering College (SEC) started in 2008, located on the Erode- Perundurai Highway in Mettukadai, Erode. Our Institution is approved by AICTE, New Delhi and affiliated to Anna University, Chennai We offer nine Undergraduate programs and four Postgraduate programs, including M.E. Applied Electronics, M.E. Power Systems Engineering, M.E. Computer Science and Engineering and Master of Business Administration.

Academic calendar has been prepared after the academic schedule was released by Anna University, Chennai and before the start of the academic year which includes curricular, co- curricular and extracurricular activities.

Subject allocation has been done according to the experience, willingness and competency of the teaching faculty. The Time table is prepared by Time-Table committee headed by a faculty and members from each

department.

The Institution encourages the faculty to update their knowledge by offering refresher courses, faculty development programmes and workshops.

Institution is sensitive to gender, environment issues, human values and professional ethics. Anna University has introduced courses on professional ethics, Human values and Environmental Science. Departmental activities are scheduled which includes Implant training, Guest Lectures, Symposium, Seminars, Conference, Placement and Training, Industrial visits and Association activities.

The Institution delivers the content based on Outcome-Based Education. Apart from that, for each course the teaching learning processes are made in such a way for all the courses it achieves Blooms Taxonomy level. Institution offers various value-added courses apart from the curriculum. About 40 courses with more than 30 hours training has been offered in the last five years. MOOC courses like SWAYAM, NPTEL are also offered with a greater number of students registered.

Our Institution collects feedback regularly from all the stake holders such as students, parents, employers, and alumnae etc., to ensure continues improvement and progress of the Institution. The analysis of the feedback and action taken work is carried out to improve the overall development of the Institution Academic Progress.

Teaching-learning and Evaluation

The teaching and learning process of the Institution rely on the ability of the teachers who kindle creativity and curiosity in learning. The Institution supports centric learning by creating a conductive atmosphere on field, industry visit and industry oriented courses, interactive sessions, group discussion, mini projects and practical assignments, projects, quizzes etc.,

Learning levels of the students are devised individually and overall considering all courses. Advanced learners are the pillars to participate in various curricular, co-curricular activities, International/National level project competitions, smartens fast track course completion in seventh semester enabling the fulltime project/ internship in companies. They are also motivated to undergo advance courses on Artificial Intelligence, Internet of Things, Data Analysis, Green Energy and Automation. Simple - Minded are identified, counselled by mentors, provided additional coaching, assignments, tests by the faculty and their progress is continuously monitored and follow up actions are taken.

Academic Calendar is prepared before the commencement of each semester. This contains the semester working days, schedule of all curricular activities including continuous assessment tests and end semester examinations. Faculty members prepare the lesson plan as per the calendar.

Course Outcomes (COs) are formulated for all courses and printed in syllabus copies. The COs helps faculties and students to learn the aspiration and outcomes of each course and the programme. Students were assessed for the COs through assignment tests, quizzes and end semester examinations. The observation of the questions is indicated in the question papers. The attainment levels of COs are calculated, analyzed and actions are taken for further improvement.

The Institution fosters a student centric learning environment integrating experiential participatory problem solving methodology. The Institution hired highly qualified and experienced full - time innovative faculty

members to maintain students and faculty ratio for the excellent quality of teaching.

The students are estimated for COs through assignments, internal assessments tests, quizzes, Google classroom and end semester exams. The level of knowledge of questions are indicated in the question papers. The attainment level of the COs is calculated, analyzed and calculations are taken for improvement. To ensure proper teaching and learning effective feedback mechanisms are formulated.

Research, Innovations and Extension

Surya Engineering College (SEC) has initiated the R&D (Research and Development) Cell for research activities for both Faculty and students.

The Institution has been consistently promoting the participation of students and faculty members in extension activities through various cells and units.

Through our Research Centre, 6 scholars have been awarded a doctorate.

In our Institution two faculty were recognized as research guide by the University.

Our Institution has signed more than 25 MoU's with Industry and R&D firms for research, training, and other collaboration activities. These have helped in expanding the horizons of learning for students and faculty members.

Research and development collaborations provide avenues for students to engage in innovative projects and contribute to cutting-edge developments in their academic areas.

Faculty Development Programs are conducted regularly in the institution to help faculty upgrade their knowledge of recent technologies.

In addition to Research papers, patents, workshops/seminars, guidance, and support are extended to faculty members for publishing book chapters. This has helped them to proceed with quality publications.

The Institution has taken a proactive measure to implement the R&D activities related to Conferences/workshops/faculty development programs.

The Institution encourages faculty members to pursue Ph.D. for their career growth and advancement.

The library provides books, journals, magazines, and other publications. The E-resources comprises Delnet, NDL, NPTEL, Swayam, and Open Access platforms.

The laboratories are well equipped and all necessary facilities are made available to researchers.

With NSS and various clubs, there is wide participation by students and faculty in socially relevant activities. Our Institution has conducted various outreach and extension activities like blood donation camps, tree planting, eye camps, School cleaning, Plastic awareness rallies, Breastfeeding awareness rallies, empowerment of women, environment protection and other social issues for inclusive society is an indispensable part of curriculum etc.,

Workshop was arranged for the students as add on programmes every year. The workshops include training on latest software, Manufacturing Technology and design and development etc.

Infrastructure and Learning Resources

Surya Engineering College (SEC) runs under the **Sri Andavar Educational and Charitable Trust (SAECT)** established in the year 2008. The college is strategically located on a 15.95 acre campus, with a built-up area of over 10882 square meters for academics and 1609 square meters for amenities and hostels. It has well-equipped Classrooms, Seminar hall, Conference Hall, Laboratories, Staff Rooms, Library, Administrative area, etc., and all supportive aids/facilities as per the AICTE requirements to cater the academic needs of the students.

A.Classrooms

Each classroom is designed and maintained as per AICTE norms to have a conducive ambiance. All departments have classrooms with ICT enabled facility. Classrooms are spacious and airy for any kind of interaction among the students for group discussion, debate, etc.,

B.Library

SEC library is enriched with more than 15000 books, 5000 online journals, 100 printed journals (including National and International), e-books, Magazines and Newspapers.

Digital Library

1. NDL

2. NSDL

3. DELNET

4. NPTEL.

C.IT and ICT facilities

There are 450 desktops with fiber optic network for student administrative purposes, printers, scanners, and servers in adequate numbers for academic-related purposes. The Institute provide internet connectivity of bandwidth 100 Mbps for Wi-Fi facility to enable better access to all the learning resources & ICT services on the campus. The campus is under the surveillance of CCTV cameras.

D.Facilities for Sports, Gym & Yoga

SEC believes in all-round development of students. Our Management always encourages the students to actively take part in sports to keep them physically and mentally alert and fit. The gym is available on the college campus to make everyone physically fit. Best athletic track, gymnasium, outdoor games facility for kabaddi, cricket, net practice cricket, football, volleyball, Throw ball, Ball Badminton, Handball, Basketball,

etc., indoor games facilities for Shuttle, badminton, table tennis, carrom, and Yoga center, etc.,

E.Facilities for Cultural activities

Cultural activities are an integral part of the study, the students are permitted to participate in various cultural activities to exhibit their cultural talents. It provides personal growth by learning skills, meeting new people and our cultural tradition games.

Student Support and Progression

The Institution keeps an eye on the student support system for their empowerment and skill development through various measures by following the global practices.

The Institution suggests the SC/ST/OBC scholarships provided by the State and Central Governments. Students are suggested to apply for the scholarship which was offered by the Non – Governmental Organizations (NGOs).

National Programme on Enhanced Learning Technology (NPTEL), Study Webs of Active Learning for Young Aspiring Minds (SWAYAM), Information and Communication Technology (ICT), R&D (Research & Development), Intellectual Property Rights (IPR), Programmes on Soft skills, Language, Communication skills and Trends in technology were the progression from the Institution.Our students participate in various competitive examinations GATE, TANCET, IAS, UPSC and TNPSC.

Institution focuses overall development of the students through participation in co – curricular and extra – curricular activities for the Institutional growth. Training and Placement Cell empowers the students on a regular basis to be job ready through intensive career development programmes. The placement cell bridges the gap between academics and employability skills of the students and provides suitable employment opportunities. Our Institution has good placement cell to assist the students to hire in a reputed company.

The Institution has excellent facilities for sports and cultural activities. The Cultural and Sports Committee give training to the students to their personal values like leadership, sportsmanship and celebration of togetherness. Several co – curricular, extra – curricular and sports activities are being conducted to emerge as a socially matured individual. Qualities like leadership, team spirit and competitive spirit can be instilled among the students through sports activities.

The Internal compliance cell monitors (ICC) gender menaces in any form and is quick to adopt measures in gender sensitization and abolishment of sexual harassment. The Anti-ragging committee directly takes up issues and brings out a speedy resolution of the same.

The main objective of the Alumni association is to bridge the gap between the Institution and the alumni. This association cultivates the strong bond between students and the alumni. In this forum, students are allowed to interact the rapport between the current students and the former students.

Governance, Leadership and Management

An Institution vision, mission and core value of the Institution and strategic plans plays a prominent role for

the Institutional growth. Our Institution vision is providing a value based technical education based on industry requirements, ensure the students cognition and provide opportunity to provide the necessary infrastructural facilities required for the teaching-learning process, co-curricular & extracurricular activities. Faculty motivates the students to pursue higher education, competitive examinations and other value added programmes. The focal point of our Institution leadership quality is to develop quality engineers, technocrats and to provide value – based technical education. The implementation of the vision, mission, core values and strategic plans were the appeal and approval by the Governing Council Members (GCM).

 The GCM consists of Industrialists and Educationalists, The Principal is the head and responsible for both academic and administration activities of the Institution. He is empowered by the Governing Council and the management plans to execute and review the operational part of all the activities and committees of the Institutions.

The Institution has the E- Governance, Anti – ragging policies, various Cells and Committees which are controlled by the Heads of the Department (HoD's). Rule break includes punishable, promotion and achievements.

Our Institution offers welfare measures to the faculty and students such as free transportation and fee concession for students through scholarship and based on their Marks.

Faculty is provided financial support to attend the Conferences, Workshops, Seminars, and Memberships are conducted for the faculty and the students for the professional bodies. The Institution is providing and supports to attend the Faculty Development Program for the entire faculty which includes Registration Fee and Travel/DA by the management.

Our Institution has had the various clubs such as Toast Master Club, NSS Club, Science Club, NCC Club, LEO Club, Innovation Club, Sports Club, Incubation Club and Rotract Club.

IQAC conducts a regular internal and external audit to consolidate the documentation of the academic activities and administration. It also formulates the activities for enriching a faculty in the key areas of teaching, assessment, research, professionalism and administration.

Institutional Values and Best Practices

Surya Engineering College (SEC) capaciousness consummated values, best practices and continues to improve upon towards achieving, beneficial development of students. The Institution organizes various events regarding gender equity ensures equal participation and representation of both men and women at all levels of academic and administrative pursuits. The Institution faculty and most of them are given administrative and other responsibilities.

The Institution ensures safety and security through the vigilance of security persons and CCTV camera systems by it's efficiently working Anti – Ragging Cell, Gender Committee and Student Grievance Redressal Cell. The Institution has the facilities on Green Campus, Energy Auditing (power consumption).

The Institution has built a congenial environment campus like ramps for easy environmental promotion activities. The Institution had the celebration of festivals and organization of cultural programmes and awarness programmes on socio - economic issues.

National and International commemorative days, events and festivals are celebrated regularly. The two best practices successfully implemented by the Institution include "Awards, Scholarships and Green Policies". The Institution had given awards for the best faculty and the best students through the academic year. The Institution suggests the scholarship for the students. The Institution follows the Green Policy by planting trees and eco – friendly, plans with an exclusive team of gardener's to provide an eco – friendly to the students, faculty and parents.

The main motto of the objectives of the practice is to raising the level of student thinking regarding Tree plantation work, to create interest among the students regarding the values of trees & plants and to include the programme of plantation can change the climate and during fresher's day and as well as farewell day each and every year students are asking to receive and plant free saplings to produce oxygen and also preparing the students for Campus to Corporate Jobs Transition. To help students to improve their communication skills such as Spoken, Written and Presentation Skills to place in a reputed company in their future the next stepping stone to succeed in their career.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SURYA ENGINEERING COLLEGE
Address	Surya Engineering College Perundurai Road Manalmedu Mettukadai Kathirampatti (po) Erode
City	Erode
State	Tamil Nadu
Pin	638107
Website	www.surya.ac.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Principal	S.mAnoharan	0424-2555018	9842511455	-	principal@surya.ac.in
IQAC / CIQA coordinator	L.kAlaiselvi	0424-2555888	9715534444	-	iqac_coordinator@surya.ac.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized 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	NIL

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	Surya Engineering College Perundurai Road Manalmedu Mettukadai Kathirampatti (po) Erode	Rural	15.95	12

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,Computer Science And Engineering,	48	A pass in H.Sc. or its Equivalent	English	60	60
UG	BE,Electronics And Communication Engineering,	48	A pass in H.Sc. or its Equivalent	English	60	49
UG	BE,Electrical And Electronics Engineering,	48	A pass in H.Sc. or its Equivalent	English	30	13
UG	BE,Mechanical Engineering,	48	A pass in H.Sc. or its Equivalent	English	60	20
UG	BE,Civil Engineering,	48	A pass in H.Sc. or its Equivalent	English	30	13
UG	BE,Bio Medical Engineering,	48	A pass in H.Sc. or its Equivalent	English	30	30
UG	BE,Computer Science And Engineering Cyber Security,	48	A pass in H.Sc. or its Equivalent	English	30	29
UG	BTech,Artificial Intelligence And Data Science,	48	A pass in H.Sc. or its Equivalent	English	30	30
UG	BTech,Information Technology,	48	A pass in H.Sc. or its Equivalent	English	30	30
PG	MBA,Master	24	Passed in	English	60	31

	Of Business Administrati on,		Bachelors Degree of minimum three years duration			
PG	ME,Applied Electronics,	0	Passed in Bachelors Degree or equivalent in the relevant field	English	12	1
PG	ME,Power Systems Engineering,	0	Passed in Bachelors Degree or equivalent in the relevant field	English	12	3
PG	ME,M E Computer Science And Engineering,	0	Passed in Bachelors Degree or equivalent in the relevant field	English	12	1

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/Soci ety or Other Authorized Bodies	3				4				69			
Recruited	3	0	0	3	3	1	0	4	38	31	0	69
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				12
Recruited	9	3	0	12
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				14
Recruited	8	6	0	14
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers									
Highest Qualificatio n	**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.	3	0	0	3	1	0	0	0	0	7
M.Phil.	0	0	0	0	0	0	5	11	0	16
PG	0	0	0	0	0	0	33	20	0	53
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers									
Highest Qualificatio n	**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

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

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	0	0	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	623	0	0	0	623
	Female	178	0	0	0	178
	Others	0	0	0	0	0
PG	Male	51	0	0	0	51
	Female	33	0	0	0	33
	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	41	38	16	12
	Female	19	22	12	3
	Others	0	0	0	0
ST	Male	1	1	0	1
	Female	4	0	0	0
	Others	0	0	0	0
OBC	Male	54	56	23	45
	Female	16	24	10	7
	Others	0	0	0	0
General	Male	2	3	3	3
	Female	0	0	0	2
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		137	144	64	73

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	Surya Engineering College(SEC) is approved by the All-India Council for Technical Education, New Delhi and Affiliated to Anna University, Chennai. Engineering as a profession, it encourages the multi-disciplinary and inter disciplinary to create a professional with lot of values. Students are learning about science, technology and the living environment to develop as responsible citizens and create a better future. Anna University forms an academic course committee to revise the syllabus and curriculum every four years. It ensures that the need of Multidisciplinary and inter disciplinary are incorporated in the curriculum and Syllabus. The NEP vision is also providing to high quality to

	develop human resources in our nation as global citizens. Anna University also insisted the affiliated colleges to do same. Anna university electives offer professional electives and open electives. As per NEP 2020 guidelines, multidisciplinary and interdisciplinary courses are available in this institution. Accordingly, the vision of the Institution consists of "global knowledge hub, self-learners, experts, ethical and responsible citizen which will significantly contribute to research and environment friendly sustainable growth of the nation and the world". Humanities and Science with STEM courses such as Physics, Chemistry, Mathematics, Cyber Security, Data Sciences, Artificial Intelligence, Basics of Electrical and Electronics Engineering, Mechatronics, Numerical methods, statistics, NCC etc., are integrated in the curriculum. The Institution has flexible curriculum which supports multiple entry exits during 1st, 2nd and 3rd year of their under graduate studies. Students are involved in multidisciplinary research projects to find solutions to cross cutting issues and challenges of society consists of local, regional, national and across the world. Choice Based Credits System/Open Electives are offered in the curriculum to promote multidisciplinary/interdisciplinary approach. The college offers internships for both UG and PG programmes that help the students to develop their personalities and their employability skills. Quality Enhancement System, the best initiative of sswc, is introduced to impart skills beyond curriculum to train the students with 62 skill development programs to meet the corporate needs. The college steps forward to have collaboration with higher educational Institutions to impart quality- multidisciplinary/ interdisciplinary teaching- learning to gain exposure, education and experience to branch out into different direction and expand their avenue.
2. Academic bank of credits (ABC):	As a part of the Digital India Program, the National Academic Depository, a government scheme, offers an online archive for all academic awards. Surya Engineering College is a recognized participant in this initiative. Mark sheets and degree certificates for students will be uploaded using the website nad.digitallocker.gov.in. The National Academic Bank of Credits (ABC) portal is now operational for the academic year 2022 after being integrated into the

	nad.digitallocker.gov.in platform. All departments of Surya Engineering College offered programs use a choice-based credit system as per the Anna university regulations, and the Department Advisory Board is now deciding on a resolution relating to the ABC. After the higher academic bodies have granted their permission to the resolution, Surya Engineering College will officially enroll on the ABC website. As per NEP 2020, Academic Bank of Credits (ABC) has been registered by our Institution. • A login id had been created in accordance with National Academic Depository (NAD); an online store house of all academic records. This helps the institution move towards ABC. It also helps students for multiple entries and exit during their studies .• Credit Transfer system helps the students to transfer between institutions. • Faculty are encouraged to refer Local, National and International needs of society. Faculty also refer syllabus and curriculum of National and International Institutions. • A Faculty meeting is conducted before every Board of Studies and faculty's opinion is sought regarding curriculum, syllabus, textbook, reading materials, assignments, assessments and pedagogical approaches. It is mandatory for all academic institutions and students to register on ABC's National Academic Depository in order to provide multiple options for entering and leaving colleges. The students from the first and second semesters of the B.E./B.TECH. programmes admitted under NEP 2020 have been instructed to register to exchange their current credits for a diploma or certificate, if they are qualified. This is done in order to make education at the national level credit based, learner centric, and flexible. According to the policy the students can redeem the credits by rejoining in the same or any other institute in future to continue their education. As the syllabus for all courses is designed by the affiliating university, the Credits per course is given by the University which is implemented by all the affiliating Institutions,
3. Skill development:	The Institution has taken initiatives to strengthen the vocational education and soft skills training from the first semester in accordance with the National Skills Qualification Framework. • One credit course, Value added courses are introduced in the main stream of the curriculum. • To promote value-based education, courses on Yoga, Indian constitutional acts, ethical

values, Induction programme on Universal Human Values (UHV) and life skills are integrated in the curriculum. • Curriculum has been updated with the employability courses to promote vocational stream with the support of industry experts. • The following skill development practices enhances the quality of students; (i) Career Development Skills and LSRW training (ii) Courses related to problem solving methods and (iii) activities through various clubs. The Institution offers various value-added courses for the students to develop their soft and hard skills. The training cell will identify the required market skill sets and provide training for the students through value-added courses to bridge the gap between the curriculum and the expectations of both internal and external stake holders so that students will acquire the required skills and get placed in reputed firms and MNCs. The Institution focuses on the development of technical skills and soft skills of the students in order to equip them to face the challenges of the global job market. The Institution trains the students to acquire skills such as communication and soft skills, ethics in writing, reading skills and ICT enabled languages, Course on developing Basic LSRW skills, aptitude training, GTT training, Infosys training, telephonic interview training, accent and communication training etc., Skill development is an important feature of NEP 2020 as it increases the employability of the graduates. The skill development programs help the students to acquire industry-relevant skills, making them more employable and increasing their chances of securing desirable job opportunities. Skill development initiatives at SSWC helps to bridge the gap by aligning the curriculum with industry needs. It ensures that students are equipped with the latest skills and technologies, making them to compete the professional world. Skill development programs focus on hands-on training, laboratory work, and project-based learning, allowing students to apply their theoretical knowledge in real world scenarios. This practical exposure enhances their problem-solving abilities and critical thinking skills, making them more proficient. The FDP Programs are attended by the faculty members. Under Nan Mudhalvan Scheme, an initiative of Tamil Nadu Government on March 1st 2022, Skill programmes are offered to students to enhance the abilities of employability skills.

4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	In general, teaching-learning methods of our Institution are in English. However, local and regional languages such as Tamil, Telugu and Hindi are used for needy students to make them better understanding of the courses. Indian arts, culture and traditions are encouraged through cultural activities and music club to emphasize Indian knowledge system. As per the Anna University 2021 regulations, a mandatory course has been introduced for the students to learn about the knowledge system on well-being, science and technology, intangible heritage, and also about the politics and constitution of India. The regional language Tamil culture and heritage courses have been introduced as part of the Anna University curriculum in regulation 2021 for all affiliated colleges.
5. Focus on Outcome based education (OBE):	All courses offered under the university's curriculum are outcomes-based education (OBE) and developed with respect for both local and global requirements. With clearly stated program outcomes, program-specific outcomes and course outcomes. Surya Engineering College has implemented outcome-based education. All courses are designed with the outcomes of remembering, understanding, applying, analyzing, evaluating, and creating in mind. In addition to domain-specific knowledge, learning outcomes at all levels ensure responsibility to society, morality, and entrepreneurial skills so that students actively contribute to the nation's economic, environmental and social well-being.
6. Distance education/online education:	In our Institution, importance is given for both offline and online education. We encourage the faculty and students to take online courses offered by NPTEL and SWAYAM platforms to enhance in-depth knowledge in the emerging areas. Students are encouraged to attend National and International Online certification courses. Surya Engineering College has been a part of the SWAYAM-NPTEL local chapter. Through this, students and faculty members attend online courses for knowledge enhancement. Surya Engineering College initiated online learning and e-resources in social digital forums during the COVID-19 pandemic situation. To avoid the loss of classes due to the pandemic, the college conducted regular classes using a virtual platform (Google Class room, Zoom meeting and Google Meet). An effective schedule was made and

meeting links were circulated through the official WhatsApp group. Faculty members are trained to use the digital tools and platform to conduct classes, test, collect and evaluate the students' work. In the Google Class room, the faculty poste all the lecture videos for each subject. Students who couldn't attend the classes due to personal health issues get benefited through these videos.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Surya Engineering College (SEC) is engaged in all activities of the Electoral Literacy Club (ELC) under the National Service Scheme (NSS).
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Yes. Our college has appointed an NSS Officer and Student Co-ordinator to oversee activities that promote awareness about voting.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	The students from our Institution actively take part in Voter Awareness Campaigns which are designed to educate the residents of neighboring villages about the importance of voting and electoral processes. Surya Engineering College rendered support with all the Government's initiatives in realizing social welfare schemes. Our Institution firmly believes that our student community is a fundamental element of democracy and recognizes them as learners today, and future leaders tomorrow, so it made an effort to conduct 100% polling in Erode District. Consequently, our students were motivated to persuade each voter in their respective wards/booths to cast their vote on the day of election and were provided with all necessary support from the Institution. Many citizens expressed gratitude towards our students hard work and Management for such a valuable service given to our society. Needless to say, this kind of gesture was acknowledged by both District Administration and Election Authorities as well.
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	The ELC has taken the initiative to create democratic awareness amongst the social groups in our locality by conducting voter awareness campaign in nearby villages, voter awareness rally, and Rangoli

advancing democratic values and participation in electoral processes, etc.	competition for students. "My Vote, My Voice" signature campaign was organized by the ELC to generate recognition about the necessity of voting in the upcoming Tamil Nadu State Assembly Election.
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.	Our Institution has organized a Voter Awareness Campaign entitled "MY VOTE MY VOICE" to emphasize the importance of participating in our country's electoral process. Our NSS students have been actively engaged in spreading awareness about the great power of voting, which every individual possesses in a democratic society. As a result, many students who did not possess voter IDs have registered themselves onto electoral rolls. The Institution has taken initiative by arranging voter ID camp in the college campus to help the students and faculty members to register their voter ID.

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
897	673	305	448	638

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: 102

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
88	86	86	100	113

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
164.73152	64.31397	64.51299	95.45733	125.07220

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

11-05-2024 06:57:23

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:

Surya Engineering College (SEC) follows the syllabus prescribed by the Anna University, Chennai. The Institution prepares the Academic schedule based on the University Calendar for each semester. The Institution delivers the content based on Outcome-Based Education. Apart from that, for each course, Teaching-Learning processes are made so that all the courses achieve top level. SEC plans and implements all the activities in such a way it will achieve the core values of all the students such as Innovation, Creativity, Ethics and Commitment, Social responsibility, Learning for life, Consistency, Interdisciplinary, Contribution to national development and Global competency.

1. Team-Based Learning: Innovative case study and assignments are given to all the students such as problems related to social needs and technical advancements. It provides responsive and creative technical leadership for the collaborative pursuit and creation of new knowledge, inventions, and enabling technologies.
2. Competition-Based Learning: Students are motivated to participate in National and International competitions conducted in various Institutions. To fulfill the excellence in Technical education, and interdisciplinary education, which is the vision and mission of the Institution, every semester the open elective courses and value-added courses are given to all the students irrespective of the program of study.
3. Effective Teaching Methods: It includes preparation of detailed lab manuals, lesson plans, question banks, lecture notes, tutorials and assignments, and content beyond the syllabus based on the feedback from Employers, Alumni, and the previous year's academic performance of the students.
4. At the beginning of the semester, the faculties are asked to submit the course plan and course material. Time table is prepared based on the Course Credit points. Syllabus completion as per the course plan was monitored by the Head of the Department regularly. Student attendance, performance and progress are periodically monitored by the corresponding Course Instructor.Two Continuous Assessment are conducted per semester based on the Anna University Assessment period. Model practical examinations for Laboratory courses are conducted before the commencement of University practical examinations.The Institution provides excellent Library facilities for students and faculty.
5. The Principal, Head of the Department and Class Tutor are focused on promoting a sense of social responsibility in students by involving them in various social activities like visits to homes for the old aged orphanages and blood donation camps conducted through NSS and other clubs. This helps in creating awareness about the current and important social issues in individuals and gives them a broader perspective of understanding the causes and possible solutions related to the various social issues.

6. The Institution follows the systematic examination process. The question paper was prepared based on the Course Outcome (CO) and Bloom's Taxonomy. Prompt evaluation and Dispatch of reports to the parents. Placement Cell provide proper guidance for the Competitive exams, Career Counselling programs, Technical Skill, Soft Skill, Communication Skill and Entrepreneurship Skill. Students undergo Internship and Inplant Training along with their Curriculam. The Department organize skill-enhancement programs like Seminars, Workshops and Value Added Courses.

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: 45

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: 75.14

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
669	491	266	356	443

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:

Surya Engineering College (SEC) has included a wide range of courses in the curriculum to deal with cross-cutting issues such as gender, the environment and sustainability, human values, and professional ethics. A number of these programs are focused on enhancing professional competencies, whereas others seek to promote general competencies such as social ethical values, environmental sensitivity, and human values. This methodology stimulates the holistic development of students.

Gender Sensitivity

Gender sensitivity is the awareness, understanding, and recognition of the differences in roles, needs, opportunities, and challenges that distinguish between men and women in society. To accomplish equality and fairness for men and women involves recognizing the existence of gender inequalities to create an environment where these differences are considered, recognized, and accommodated.

To create gender sensitivity and equality there are many courses are included in academic programs. Apart from the curriculum, the Women Development Cell organizes many programs such as Gender Equality, Equal Rights to Men and Women, Gender Equality in Education, Legal Rights for Men and Women, etc.,

Human Values and Professional Ethics

Human values are the essential ideas and precepts that guide individual behaviors and actions towards themselves, others and the environment. These values serve as moral indicators, influencing decision-making, behavior and relationships.

To create human values SEC organized many awareness programs like Personal Hygiene, Food Hygiene, Healthy Hand washing, Food Safety, Cleanliness, Dental Health, Eye Check-ups, Mental Health, Self-care, Fitness, Yoga, etc.,

Professional ethics involves the fundamental principles, rules and central values that direct individuals in their professional duties and engagements. It acts like a moral guide, offering a structure for truthful, professional conduct and ensuring integrity in making decisions and carrying out tasks. To cultivate ethical standards within their respective fields, students undergo a dedicated professional ethics course as part of their educational curriculum. This course provides students with the knowledge and skills needed to navigate complex ethical dilemmas and uphold high standards of conduct in their professional endeavors. By integrating professional ethics education into the curriculum, Institutions aim to foster a culture of ethical responsibility and integrity among future professionals, thereby contributing to the overall ethical fabric of society.

Environment studies

Broad spectrums of multidisciplinary areas focusing on how individuals interact with their surroundings have been incorporated into environmental studies.

To advance environmental conservation, Eco Club implements various measures: limiting the entry of individual vehicles, utilizing LED bulbs, enforcing a ban on plastic usage, increasing tree plantation within and outside our premises, implementing rainwater harvesting and establishing a comprehensive solid waste management system.

These measures collectively aim to environmental degradation and involve implementing measures to minimize its impact and restore ecological balance, enhance sustainability and foster a greener ecosystem both locally and globally.

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: 57.97

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

Response: 520

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](#)
Provide Links for any other relevant document to support the claim (if any)	[View Document](#)
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 25.35

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
137	144	64	73	84

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

2022-23	2021-22	2020-21	2019-20	2018-19
396	396	396	396	396

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: 35.33

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
135	141	61	68	79

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
274	274	274	274	274

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: 10.19

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:

Effective content delivery is made for the students by using Information and Communications Technology (ICT) tools in the classroom for better understanding and reinforcement of the concepts. The institution is highly focused on providing creative methods for enriching the learning experience. The institution has the needed resources which include a wide availability of computers for all departments and libraries with high-speed internet access. Also, general ICT tools among the students and the faculty. For the efficient use of tools, our institution provided training sessions for the faculty. The use of ICT tools in teaching-learning methodologies includes special lectures, field studies, case studies, project-based methods, experimental methods, flipped classroom sessions, etc.

To enhance the effectiveness, lectures are presented as 'learning dialogues' including short intermissions facilitating the students to recapitulate the acquired knowledge by way of answering a few questions, brief group discussions, think-pair-share activities, and also by any other similar interactive sessions.

ICT courses include PowerPoint presentations, video conferencing, or educational websites and enable monitoring of students' learning process through online quizzes, submission of online assignments, etc. The communication skills training facility is enriched with ICT tools to help the students acquire proficiency in listening, speaking, reading, and writing skills.

EXPERIENTIAL LEARNING:

Experiential Learning is the process of learning by doing. To connect theories and knowledge learned in the classroom to real-world situations the students are made engaged in hands-on experiences and reflection. The learning opportunities exist in a variety of course and non-course-based forms including community service, service-learning, undergraduate research, study abroad / away, and reaching a pinnacle experience such as internships, student teaching, and capstone projects.

The student's participation in experiential education opportunities leads to:

- Grasp a knowledge about course material.
- Perception about their skills, interests, passions, and values.
- Coopetition with diverse organizations and people for opportunities.
- Gratification of assisting in meeting community needs.
- Self-confidence and leadership skills.

PARTICIPATIVE LEARNING:

By doing participative learning every student deserves a chance to reach their full potential. This learning helps to develop the student's proficiency in language and cultural competency by doing Group Discussions, Mind Mapping, Seminars, etc. These methodologies are used to create a better future for students:

- Develop student outcomes.
- Bring diverse perspectives to our college through cultural exchange teachers.
- Prepare students for the careers of today, tomorrow and beyond.

PROBLEM-SOLVING:

Problem-solving is a method that is used for making solutions and it is essentially based on three processes: problem understanding, detection of means to build a solution, and construction of a solution strategy. An analysis of the abilities and activities entailed by our approach shows that ICT offers the possibility to implement it straightforwardly and effectively.

- Giving assignments and quizzes at the end of instruction of each unit.
- Case Study Analysis and Discussion.
- Product Design and development.

By integrating these ICT tools into different teaching methodologies, educators can create more engaging and interactive learning experiences, and diverse learning styles and promote a deeper understanding of the subject matter among students.

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
88	86	86	100	113

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: 7.61

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
9	7	8	7	5

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:

The Institution is affiliated to Anna University, Chennai and follows the exam pattern of the university.

The Institution has an Examination Cell for overseeing the conduct of all the internal and end-semester examinations. The University circulates the Academic Schedule to the affiliated colleges. Based on the schedule, the Examination Cell of the Institution prepares the Internal Assessment Schedule for all the departments. The same is circulated to all the classes and it is displayed in the Department and Common Notice Board. A detailed academic calendar is available on the website and notice board of each department. Thus, students would be aware of examinations well in advance and they can plan their study accordingly. The periodic instructions issued by the university are timely communicated to the students. Such instructions are read in the classrooms and a copy of the same is displayed on the department notice board. The University prescribes 80% of weightage for university examination and

20% of weightage for internal assessment.

Internal examinations are planned based on the academic schedule received from the university. The university evaluation pattern is communicated to the students during class committee meetings. The university pattern is followed for the preparation of the internal exam question paper with COs and POs.

Internal examination question papers along with the scheme of valuation are approved by the head of the department. Three internal exams are conducted for each semester in 2017 regulations and two internals are conducted for each semester in 2021 regulations.

Internal assessment marks and attendance are uploaded periodically in the Anna University web portal.

The syllabus (2017 regulation) for the internal examination is considered as below.

Internal Exam Syllabus Internal Exam I Unit 1 (Full unit) and Unit 2 (Half unit)

Internal Exam II Unit 2 (Half unit) and Unit 3 (Full unit)

 Internal Exam III Unit 4 and Unit 5

The syllabus (2021 regulation) for the internal examination is considered as below.

Internal Exam Syllabus Internal Exam- I Unit 1&2 (Full unit) and Unit 3 (Half unit)

Internal Exam II Unit 3 (Half unit) and Units 4&5 (Full unit)

The centralized internal exam cell conducts the internal exam as planned. The faculty evaluates the internal exam answer sheets within three days from the commencement of the examination and the same is verified by the head of the department.

Subject-handling faculty members will distribute the answer scripts to the students inside the classroom and the mistakes will be addressed in person. The performance of the students is communicated to the parent through WhatsApp /personal call or SMS/ letter and the same will be displayed on the notice board. The poor-performing students should bring their parents to college and be asked to meet their concerned mentor/class advisor / Head of Department (HoD). HoD will give valuable suggestions to improve his/her performance.

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:

The Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs) are clearly defined and stated as per the University curriculum. The Institution follows an Outcome-Based Education (OBE) approach the assessment and evaluation processes are typically designed with a focus on measuring the attainment of learning outcomes or competencies.

Teaching and learning are streamlined for effective knowledge transfer through the application of a wide variety of creative, cutting-edge methodologies with a focus on the individual learner. The course committee is supervised at regular intervals and the Institute helps faculty members reach these objectives through appropriate supporting systems. This helps to engage with the course outcomes easily.

The POs and COs are accessible in the course file prepared by faculty members. While figuring with POs, faculty can understand the course outcomes accordingly and she or he can prepare the program of studies, etc. POs for all programs suggested by the Institution are shown on the Institute website for referral. They are made attainable through faculty members, student attention theory, laboratories, and student orientation programs. All the planning and execution are guided by the objectives of faculty conferences. The program outcomes and program-specific outcomes are obtained through a syllabus that provides several courses. Each course has determined course outcomes that are related to the program outcomes and a set of performance criteria that are utilized to offer a quantitative measurement of how well course outcomes are accomplished.

Program Outcomes (POs)

Program outcomes are statements that reflect the knowledge, skills, and attitudes that the students should possess upon completion of a degree. POs discuss the general expectations of graduation from a particular program, as well as the proficiencies that the students have attained after completion of their degree.

Engineering program outcomes typically encompass a wide range of skills and competencies that students are expected to achieve upon completing their engineering education. here are some common examples Engineering knowledge, Technical Proficiency, Problem-Solving Skills, Design Abilities, Teamwork and Communication, Professionalism and Ethics, Lifelong Learning, Global and Societal Impact, Professional Development, and Modern tool usage.

Course Outcomes (COs)

The objective of designing Course Outcomes (COs) is to identify the knowledge, skills, and applications that learners have acquired. Course Outcomes are developed in collaboration with program objectives. COs serve to demonstrate what the students must have learned and comprehended upon completing the course.

- On the first day of the class, the syllabus along with COs is communicated to all students by a concerned faculty member.
- Question paper setting with COs.

- HoDs ensure communication of COs to students.

The course outcomes are thus straight away and quantitatively evaluated and are built on the program outcomes and program-specific outcomes. The course outcomes of each course are designed to reflect the program outcomes, with a grade of focus being firmly associated, comparatively associated, and delicately associated. The faculty members refer to the syllabus to understand POs and COs completely before the classroom delivery.

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:

The academic schedule recommended by the Institution has understandably stated learning outcomes. It is combined with Institutional targets and objectives. The achievements and grades of the course outcomes, schedule outcomes, and program-specific outcomes are very essential parameters for the outcome-based education structure. This supports building an academic environment for winning Excellency. The standardization and effectiveness of the process are repeatedly supervised, estimated, and upgraded by taking input from the conversations, decisions, and recommendations taken in the meeting of the Academic Council of the Institution. The IQAC also closely interfaces with the evaluation and completion processes. The subsequent procedures are utilized to evaluate the fulfillment of course outcomes. The fulfillment grades for the course are set based on the prior presentation. The three grades obtained in the IATs (Internal Assessment Test) determine the level of achievement of each course outcome. The achievement is calculated as an expression of the percentage of the students attaining the settled percentage of scores and also the extra score.

Feedbacks are collected from employers, employees, parents, students, and alumni. Based on the feedback modifications are given to the curriculum. Special training programs are conducted such as spoken English, personality development programs, aptitude, and logical knowledge programs.

The CGPA and number of arrear subjects are the measures by which student learning outcome is assessed and accordingly, remedial classes are arranged. Class committee meetings are arranged regularly and necessary steps are taken based on feedback from the staff as well as student representatives.

The attainment of CO is calculated based on the following:

For theory subjects:

1. Internal Evaluation (weightage 30%) Continuous internal assessment &Assignments
2. External Evaluation (weightage 70%) University end semester theory examination

For practical subjects:

1. Internal Evaluation (weightage 40%) Lab performance & Practical continuous assessment
2. External Evaluation (weightage 60%) University end semester practical examination.

For the computation of CO, a threshold is fixed to detail the competence level (say, 60%) for internal evaluation and Grade B for external evaluation.

Achievement levels are distinct based on the following:

- Attainment of Program Outcomes and Program-Specific Outcomes At the commencement of the semester the subject professionals determine the association of POs and PSOs with COs.
- Once the total attainment of CO is calculated, it is utilized for considering the level of achievement of POs and PSOs.
- Placement and higher education are also used to measure the learning outcome. Based on the performance of the students, improvement strategies are adopted for the attainment of the desired outcome.
- The attainment of outcomes is analyzed in course coordinator meetings and appropriate action such as enhancing the course delivery methods, special coaching classes, etc. are taken.
- The department-level academic audit is conducted for all continuous assessment tests and semester-end examinations to monitor the attainment of course outcomes.
- If the achievement is either equal to or more than the goal value, it is concluded that the achievement was obtained successfully.

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: 91.05

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
99	78	48	196	230

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
112	85	53	211	254

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: 3.98

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: 5.03

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
0.78	2.34	1.91	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:

Surya Engineering College (SEC) has developed a robust environment that nurtures the preservation of knowledge throughout individuals' lifetimes and facilitates the exchange of information among both students and faculty. The institution actively shares recent advancements in the IT Industry, fostering proactive dissemination of ideas to address real-world problems and implement solutions. Recognizing the current imperative for evolution in the IT Industry, particularly in a populous democracy like India, the aim is to shape the nation as a premier global Tech Innovator Country. To further support research and innovation, the college has established dedicated cells for Research and Development as well as Entrepreneurship Development, catering to the needs of both students and faculty members.

Eco System for Innovations

        The institution has implemented an innovation ecosystem that includes the development of

knowledge. To facilitate effective and efficient knowledge growth, the institution organizes workshops, seminars, and conferences. Acknowledging the significance of e-commerce, the institution has created awareness regarding the web hosting service. This inclusion not only enhances their data analysis skills but also deepens their understanding of e-commerce, promotes resource efficiency, and cultivates a supportive environment for engineering students.

Additionally, the Institution Innovation Council (IIC) operates as an innovative cell under the Ministry of Education in New Delhi. The primary objective of IIC is to establish a dedicated platform for idea incubation and provide necessary resources and support for innovative projects and also emphasizes the importance of sustainability in innovation and encourages projects that address environmental and social challenges.

Research and Development Cell

The research cell cultivates a research-oriented culture among both faculty and students by organizing diverse workshops, seminars, training programs, and special meetings designed to promote research endeavors. There is a strong emphasis on encouraging faculty and students to actively engage in the preparation and writing of research-oriented papers as part of this research initiative. Through the R&D Cell, 13 Research programs are conducted based on 'Research paper writing – Methodologies, Tools, and Guidelines', 'Critical Thinking and Problem Solving' & 'PCB Design Fundamentals Prototyping and the PCB Design Flow'.

Intellectual Property Rights Cell

Intellectual Property Rights (IPR) plays a crucial role in fostering innovation and creativity by offering inventors and creators a financial incentive for their contributions. This, in turn, encourages ongoing research and innovation projects. Through the IPR Cell,10 training programs on IPR such as 'Patent Filing,' 'Patent Law,' and 'Patent Licensing and Legal Options,' are conducted to raise awareness among faculty and students, aiming to enhance their understanding of intellectual property and its significance.

Entrepreneurship Development Cell

The Entrepreneurship Development Cell (EDC) at SEC functions to develop entrepreneurial skills among students. This division serves as a platform for students to actively engage in various entrepreneurial programs, including 'Nurturing Young Minds to Become an Entrepreneur,' 'Networking for Entrepreneurial Success,' 'Social Entrepreneurship and Global Challenges,' 'Entrepreneurship Management,' and 'Fostering an Entrepreneurial Mindset in Education.' The primary emphasis is on supporting aspiring entrepreneurs in establishing and attaining their goals, while also nurturing the development of responsible innovators.

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: 45

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
10	10	10	9	6

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: 0.29

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
5	8	10	4	3

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: 0.23

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
8	6	4	5	0

File Description	Document
List of chapter/book along with the links redirecting to the source website	[View 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:

To infuse a sense of participation in nation-building initiatives, students are encouraged to actively engage in various social activities. In Surya Engineering College the extension and outreach activities have been focused on developing a clean and green environment through the involvement of various functional groups such as NSS, YRC, LEO Club, ECO Club, and collaborative efforts with non-governmental organizations. The program's main elements are Various Awareness Programs for benefit of the society and activities like planting trees, efforts for the Swachh Bharat vision, power-saving tips, street cleaning activities, etc.

Ensuring Sustainable Growth in nearby villages

Under the institution's vision, the administration encourages our students to engage in community outreach activities within nearby villages by adopting a village for social camp activities. As a result, our NSS and YRC volunteers collaborated with non-government organizations to conduct various awareness programs and activities to foster a healthier environment and enhance livelihood opportunities.

Healthy India

To promote awareness about various social and cultural issues in society, programs were arranged for the general public, with a specific focus on the students who represent the future of India. Collaborating with non-governmental organizations including Lions Club -Erode, Q Labs -Erode, Acchutha Eye Care Hospital -Erode, LEO Club –Erode, several awareness initiatives were implemented which include programs based on Dengue Awareness, Blood check-ups, Health Checkup Camp, Eye check-up Camp, Blood Donation Camp, and Medical Camp have been organized for the public benefits. Awareness through rallies regarding Tobacco, AIDS, Single-use Plastic, anti-drug and Substance Abuse, Gender Equality, etc. were conducted for the benefit of society and our students.

Practical Training & Awareness Programs in Nearby Villages

The Institution delivers free Practical training for the adopted villages in the following:

- Save Electricity Training: The Department of Electrical and Electronics Engineering organized an awareness program on the "Electricity Usage, Safety and First Aid" programme among with people of Rayapalayam.
- Mixer, Grinder, Radio, TV and Fan Service Training: Nearby village people were given training in basic maintenance, repair, and energy saving.
- Two Wheeler Maintenance: The Department of Mechanical Engineering organized an awareness program on **"Proper Maintenance on Two Wheeler to Avoid Pollution"** for Chennimalai village people.

Social Awareness Programs

Awareness programs on Rain Water Harvesting, Applying Patta Chitta Online, Social Welfare on Society Reforming, Solid Waste Management, and Higher Education Awareness Programmes, etc. were

conducted.

In conclusion, various awareness programs and initiatives conducted by the NSS unit and YRC of Surya Engineering College in collaboration with non-governmental organizations have proven to be instrumental in fostering a sense of social responsibility, community engagement, and personal development among the students. These programs have not only raised awareness about various social issues but have also provided a platform for students to actively contribute towards the betterment of society.

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:

Surya Engineering College has consistently demonstrated its commitment to community engagement and social responsibility through various extension activities. Over the years, the college's efforts have garnered recognition and awards from government and government-recognized bodies. These accolades serve as a testament to the institution's dedication to making a positive impact on society.

The Blood Donation Camp organized by the Lions Club of Erode Supreme Charitable Trust - Blood Bank was held at Surya Engineering College for the academic years 2019 and 2020, is a remarkable testament to the power of community service and the noble act of saving lives through voluntary blood donation.

The primary objective of the camp was to collect crucial blood donations to support patients who were fighting for their lives. Blood donation is an integral aspect of healthcare, essential in cases of medical emergencies, surgeries, and treatments for various illnesses. This event addressed the constant need for an adequate blood supply in healthcare facilities, and Surya Engineering College played a pivotal role in making it possible.

Surya Engineering College opened its doors and hearts to host the Blood Donation Camp, providing not only a suitable venue but also a supportive environment for this vital initiative. Their unwavering support and commitment to the cause greatly contributed to the success of the camp.

The certificates of appreciation awarded to Surya Engineering College signify more than just pieces of

paper. They symbolize a partnership between the college and the community, a commitment to the greater good, and an affirmation of the importance of saving lives. These certificates serve as a reminder of the positive impact that can result from collaborative efforts in promoting health and well-being.

In conclusion, the Blood Donation Camp at Surya Engineering College, spanning the academic years 2019 and 2020, is a heartwarming reminder of the potential for positive change when communities, organizations, and institutions come together for a common purpose. The certificates awarded to Surya Engineering College are symbols of gratitude and recognition for their unwavering support, echoing the importance of collective efforts in promoting health and saving lives. This event showcased the true spirit of altruism and the power of unity in making the world a better place, one donation at a time.

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: 68

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
19	13	09	15	12

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: 50

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:

Surya Engineering College (SEC) is located on a lush green campus with a serene environment, spread across 15.95 Acres of land. SEC is maintaining its infrastructure as per norms and utilizes all the facilities optimally based on the AICTE requirements. The facilities are given below:

Classrooms & ICT facilities

SEC has an adequate number of classrooms with proper ventilation and necessary furniture to accommodate 75 students for theory sessions. SEC has an instructional area and circulation area as per UGC norms. HEI has a seminar hall, conference hall, Auditorium with LCD projectors, computers with internet connectivity, and a public address system. These halls are utilized for co-curricular activities such as Seminars, Guest lectures, Workshops, Symposium, Conferences, and Faculty Development Programs. The Institution has thirty classrooms equipped with LCD projectors, internet facilities, etc. ICT-enabled teaching practices are adopted for an effective teaching-learning process. The campus is under surveillance cameras.

Computers

SEC has 450 desktops in working condition with fiber optic networks, printers, scanners, and servers in adequate numbers for academic-related purposes.

Networking and Internet:

All the systems on the campus are maintained in a standard network all the hubs/switches have been upgraded to fiber-connected Gig switches and the remaining switches are 100 Mbps and rack-mounted. Standard firewalls and antivirus are available for network security

Central UPS Facility

Uninterrupted power supply (UPS) is made available. The Institution provides internet connectivity of bandwidth 100 Mbps (1:1) for Wi-Fi facility to enable all the stakeholders to have better access to all the learning resources & ICT services on the campus.

Central Library

Central library is being maintained with an adequate number of books, journals, magazines, newspapers, and a variety of books related to all competitive examinations such as CAT, GATE, GRE, TOEFL, and GMAT. We can accommodate 170 persons at a time. Several volumes are added every year. Digital Library :1. NDL 2. DELNET 3. NPTEL. SEC library is enriched with more than 15,000 books, 4710 (online and print journals including National and International), e-books, Magazines, and Newspapers.

Gymnasium and Yoga Centre

SEC has a separate Gymnasium and Yoga center. The Institution has excellent sports facilities for both indoor and outdoor games. It includes a cricket ground, volleyball court, table tennis court, facility to play throw ball, chess and carrom.

Co-Curricular Activities

SEC organizes various events such as Technical symposium, Mega cultural fest, New Year Celebration, Pongal Celebration, Youth festivals, Competitions. Skits, Classical dances, Singing, Theatrical activities, and Quizzes are part of these events. Cultural activities are conducted at the Indoor auditorium (Kamarajar Arangam) and seminar hall.

 Support Facilities:

·   Green Campus.

·   Cafeteria to provide hygienic food items.

·   Hostel facility for Boys and Girls.

·   Rainwater harvesting system.

·   R.O. plant for drinking water.

·   Vehicle parking facility.

·   Adequate transport facility.

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

Response: 4.09

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
14.36036	0.23	0.05	6.364	0.00

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:

Surya Engineering College has an open central library with an area of 520 sq.m. The library has adequate seating facilities for the students and faculty to use the library effectively.The library is open from 9:00 am to 6:00 pm. It includes a book collection of 15,516 volumes, 4,710 titles and print periodicals. For the proper organization of library materials, the library has purchased ILMS, **'CAMPUS ILIB'** Library Software. The software is upgraded from time to time under the regular Annual Maintenance Contract. One terminal is reserved for students to search for information on the availability and issue of books. The web-based Library Software includes Web OPAC, Email & SMS Alerts, etc. (Online Public Access Catalogue - OPAC), and a Single Window where complete information about users, including Circulation Status, Fine Status, Contact Details, Reading & Circulation History, etc., is available. Various types of reports can be generated using the above-mentioned software, which is useful for academic inspection and accreditation committees from time to time.

CampusiLib (ILMS)

To maintain the circulation of books and other materials among students and staff, ILMS software is used to manage functions. It includes integrated modules for acquisition, cataloging, serials, e-gate entry, circulation, stock verification, and administration. It helps to control the resources in the library more effectively and serve the students. The OPAC system enables students to check the availability status of books and their exact location. The number of books issued are four for UG students, six for PG students, and ten for faculty. Books are issued 14 days for students, one semester for faculty and 30 days for non-teaching staff. Books can be renewed for a further period of 14 days for students.

Remote Access to E-Resources of the Library

The digital library is available for both students and faculty members to facilitate their individual growth and development. A separate digital library with 15 systems is provided for accessing subscribed databases and open-access e-resources, equipped with internet facilities at a speed of 100 Mbps. The library has subscribed to DELNET, NDL and NPTEL for remote access, enabling students and faculty members to access e-books, e-journals, articles, manuscripts, video lectures, audiobooks and project thesis in various disciplines.

Best Practice

- The librarian also conducts a User Orientation Programme for all first-year students in the first semester and also newly recruited staff members.
- The librarian guides the library staff regarding OPAC and other library services. Training programs are conducted for the library staff to be updated with the Library software
- A weekly library hour is scheduled in the regular class timetable to encourage students' reading habits.
- The librarian announces the Best Library User of the Year for both students and faculty members who consistently utilize the resources to acquire knowledge.

Subscription to E-Resources

- DELNET (Developing Library Network) - www.delnet.nic.in
- NPTEL (National Programme on Technology Enhanced Learning) https://nptel.ac.in/
- NDL (National Digital Library) - https://ndl.iitkgp.ac.in/

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:

Our Institution has made all efforts to enhance the IT-related infrastructure for students and faculty members to work in a digital environment. The Institution is aware that technology plays an essential role in the development of knowledge and skills and is equipped with various IT facilities that are periodically updated. Based on the needs, our management enhances the Institution with seven computer laboratories and the Institution equipped with computer systems, printers and scanners.

The students are provided with 420 computers in various laboratories and libraries, every department is provided with computer systems, and printers with Wi-Fi facility. The faculty members use LCD projectors for interactive learning through presentations. Apart from Blackboard, our faculty members are taking classes through Google Classroom, Zoom, Google Meet, and Kahoot.

Wi-Fi Availability :

 Wi-Fi facilities are available all over the campus to access library, classrooms, office, all department and seminar hall . Network provision is available with 5 Ghz speed for 24/7 service. The internet facility is available with 100Mbps capacity. The Institution has a computer with the best configuration to serve the purpose of students and faculty members.

Networking and Internet:

All the systems on the campus are maintained in a standard network all the hubs/switches have been upgraded to fiber-connected Gig switches and the remaining switches are 100 Mbps and rack-mounted. Standard firewalls and antivirus are available for network security.

Wi-Fi Facilities:

Wi-Fi connectivity is provided in the administrative and academic areas and there is internet connectivity on the campus. All the computers in each lab and the college are connected using a local area network with 100 Mbps and an internet leased line. The library is automated digitally with a barcode scanner for easy access to student entry and book transactions. Students can access e-books, e-journals, and Course materials, within the campus through LAN and Wi-Fi facilities.

Available Bandwidth: 100 Mbps

Use of Official Email Address for all communications:

All official communications are handled exclusively through the official email ID's.

IT Updation:

System hardware updation is done regularly based on the requirements. Higher configuration computer systems are purchased to make the students work on recent technologies. Connections are well spread throughout the campus and they are modernized frequently and on a timely basis.

Role of System Administrator:

- Providing firewalls to manage and control IT services.
- Taking backup of Office Files, Databases, and Library Databases.
- Blocking untrusted websites to prevent the risk of access.
- System hardware updation is done regularly based on the requirements.

Maintenance of computers and their accessories:

- During the warranty period, the computer vendors maintain the computers and their accessories on the fault rate of the system, the experts from outside are also requested to service the systems.

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: 2.14

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

Response: 420

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: 25.98

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
39.17	24.31	14.33	23.82	31.94

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: 96.18

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
886	671	286	420	585

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: 67.04

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
582	436	140	207	620

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: 78.18

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
66	69	47	182	195

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
112	85	53	211	254

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: 3.21

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
3	0	2	0	0

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: 64

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
37	10	0	17	0

File Description	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: 34

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
47	47	0	35	41

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:

Surya Engineering College comprises an Alumni Association which has been working effectively, due to the excellent rapport shared by our faculties with alumni, we can make a strong bond and network between alumni and the Institution. Many of them are willing to 'Give back' to their alma mater as a sign of their gratitude and affinity towards the Institution in the format of their knowledge and skills that they have learned in this huge IT world. This informal Alumni Association with the different suggestions by alumni has transformed to formally register the Alumni Association in the year 2023 with registration no: SRG/Erode/68/2023 via the Act 1975(27 of 1975).

The main objectives of Alumni Associations are:

• Diffusion of useful knowledge among the members.

• To maintain an adequate Library and access to the College Alumni Website for the use of the members.

• To encourage games and cultural activities.

• To provide Value Added Courses to the students.

• To promote extension programs.

• To carry on any activities of a charitable nature and general public utility.

• To create new facilities for higher learning.

• To promote personality development and soft skills among the young generation.

• All the above objects without any profit

• To bring old students of Surya Engineering College under one forum for the exchange of experience, knowledge and talents amongst members and the students of the college.

• To promote social, cultural and educational relations among the members educated from college intending to develop the institution and those who pass out from it.

• To safeguard and promote the interest of the members by constitutional means and to set up a welfare fund for the welfare of the members under the rules and bylaws framed thereof for the operation of the fund.

Benefits of Alumni Association Membership:

• A Strong Network of Alumni.

• Alumni career services.

• This membership will provide a social platform.

• This will help to keep in touch with your classmates, faculties and current batch of students.

• This association will help and support needy and bright students.

• The funds raised by alumni association members will help to increase our strategic initiatives of engaging alumni, Student fee and creating tangible events and programs.

• Alumni Guest lecture Series to the needy and brighter students.

• Automation or up-gradation in technology

As per discussion with a core team member of the Alumni Association, we have categorized these memberships as below

• 1 Year Membership 200/- Rs

• 3 Year Membership 1000/- Rs

• Lifetime Membership 5000/-Rs

Placement Activity - The alumni network of an Institution is one of the biggest sources for placement.

Alumni always help to place their juniors at their respective organizations.

Mentorship - Our alumni always play an active role in voluntary programs like mentoring students in their areas of expertise.

Networking Platform - The alumni network by itself is one of the best professional networking platforms available today in the Institution.

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:

Surya Engineering College's(SEC) vision is to be an institute of repute by providing value-based technical education based on industry requirements, ensuring that students imbibe technical knowledge and providing opportunities for their holistic development to pioneer the potential of students and faculty in engineering training via global class infrastructure and educational assets for mastering, teaching and studies. Our Institution's infrastructure and facilities are of very excessive standards. To preserve world-class laboratories, workshops and academic resources for learning, coaching and research and ensure powerful implementation of the given curriculum through quite certified and able faculty. Our institution offers continuous assessment, evaluation, checks and examinations to enhance our students' benefits. Our institution's satisfactory policies are dedicated to non-stop improvement in all areas and involvement of people in any respect.

The Institution needs to have a well-based organizational chart with governance at diverse ranges to attain the vision and venture of the institution. The governing council manages the organization, such as eminent members of the management, academicians, industrialists, and educationalists, engaging in meetings once a year to study sports and propose new initiatives.

The Principal is the head of both academic and administrative inclusive of IQAC. Regular discussions arise among the Principal, and HoDs, execute guidelines in every branch. Teachers have been identified as having significant potential as stakeholders in the college's vision & mission statements. Educators are betrothed in bequeathing policies, manipulating and surveying them through various clubs, committees and cells.

There are 9 UG courses and 4 PG courses and 1 research programme is directed by the Heads of the departments and Research supervisors, charged with upholding scholarly integrity. Periodic meetings at the institution and the department level facilitate mutual communication amongst the administration & teaching staff, as well as the efficient implementation of any decisions made. To enrich students' leaders, the institution gives them the reins to a major technological and cultural programme.

The recruitment manner for faculty individuals is transparent, finished using the human resource branch, and includes figuring out the body of workers' necessities, a screening takes a look at, an interview, a presentation, a reference test, and very last approval from the management. The organization emphasizes the qualifications and experience of the applicants, evaluating them via criterion-based devices.

SEC aims to provide quality education with sustainable knowledge and training with unsurpassed skills in all the domains that remould the students into strong confident and successful professionals. To strive

for quality education and promote high standards of training programmes, under the guidance of the board of management, academic council and board of studies we have created a vision and mission for our university to constantly remind us of our future goals.

As an institution with more than 800 students, we give the utmost importance to discipline and professional attitude. Students have been provided access to training like yoga, professional ethics, environment awareness, code of conduct and professional training.

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:

The effective and efficient functioning of the institution is governed by the implementation and functioning of different academic and administrative bodies as visible from the organogram. The organogram is an administrative diagram of the institution describing the decentralized structure of administration. The institution administration is a cooperative effort of the Principal, teaching, non-teaching staff, and students with the cooperation and support of all stakeholders in pursuit of a common objective. Hierarchical clusters were created from top management down the level to delineate duties, responsibilities, accountability, and powers at each stage. The institution follows a democratic and participatory approach to governance to achieve its goals. All stakeholders participate actively in the administration of the institute.

The topmost layer of the organizational structure consists of a board of governors. The Governing Council is responsible for apex-level decision-making. GC meets twice a year to discuss and deliberate upon the institutional requirements and unanimously take crucial decisions for the betterment of the organization. GC decides policy matters and takes key decisions including the recruitment, confirmation of the services, promotion, and transfer of the employees. Under the administration of GC, various Statutory and non-statutory Committees are formed which include IQAC, SC/ST Committee, Internal Complaint Committee, etc. The Board of Management nominates other academicians and experts into these Bodies to strengthen the functioning of the institution.

The Chairman is the highest authority in the institution and plays a crucial role in the implementation of decisions and suggestions given by GC from time to time. He is responsible for running day-to-day administration and ensuring smooth academic performance.

The principal is the chairperson and is responsible for the overall administration and academic function of the institution in keeping with the policies of the management as well as mandatory regulations and stipulations of the related statutory authorities. He is authorized to make decisions regarding academic, administrative, and financial matters by the policy matters.

Faculty members are recruited through the Staff Selection Committee and all stakeholders should follow the code of conduct implemented by Management. The Management encourages the faculty to participate in various committees. This enhances the leadership qualities and skills.

The power delegation and decentralization of authority enrich the effective and efficient functioning of the institution in all its spheres of planning, decision-making, and implementation.

For an institution, strategic planning is very essential to accomplish the Vision and Mission, which it dreams of. While formulating the strategic plan and deployment document, care has been taken to involve all stakeholders through SWOT analysis to help contribute their part which is vital for the success of every institution. Efforts have been taken to identify the implementation processes and monitoring by identifying measurable targets in line with the desired outcomes. This will emerge to be the guiding force for the college to achieve its goal of becoming an institution of Academic Excellence and providing professional skilled young Engineers to society.

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:

PERFORMANCE APPRAISAL SYSTEM FOR TEACHING AND NON-TEACHING STAFF:

Performance appraisal policy is the way to ensure a performance-oriented work environment in the institution, it helps employees to achieve the set objectives and acts as a reward for their contribution to the progress of the institution.

Self-Appraisal Mechanism for Teaching Staff:

The Faculty is appraised through the implementation of innovative methodologies in classroom lectures, tutorials, course delivery question paper setting and evaluation, etc. Besides, student feedback and pass percentage of the course are also considered.

It is also evaluated based on professional contribution to short-term Training courses, performing invigilation duties, contribution to college administrative bodies such as IQAC, NAAC, etc, participation in conferences, workshops, publications in journals, books, and R&D works.

Filled in the prescribed format by the teacher is reviewed by HoD.

The three-tier assessment involves:

Self-appraisal by the faculty

Peer evaluation by the department heads.

Students feedbacks

The above assessment mechanism has resulted in the teaching staff understanding and getting acquainted with the following:

Teaching style and abilities with the feedback from the peers and the students.

Scope for improvement in teaching resources and methodologies.

The research outcomes and relevance of the work being done.

The self-assessment mechanism does not have any negative impact on the staff as he is provided with the opportunity to comment on the evaluation outcomes and give opportunities for improvement. The college rewards and recognizes teachers commending. They for their teaching approaches and research initiatives, which help them to work with renewed zeal.

SELF-APPRAISAL MECHANISM FOR NON-TEACHING STAFF :

The non-teaching staff are periodically trained and also encouraged to pursue their higher studies. The works of the non-teaching staff are assessed periodically through a structured mechanism:

Work efficiency and commitment.

Initiative towards learning newer friends in their respective areas.

Leadership and teamwork.

Discipline and regularity

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: 57.93

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
59	52	48	54	61

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: 55.51

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
60	52	57	57	61

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
5	10	10	10	9

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Copy of the certificates of the program attended by teachers.	[View Document](#)
Annual reports highlighting the programmes undertaken by the teachers	[View Document](#)
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:

Since the institution is self-financed, student tuition payments provide essential revenue. The institution wants to make student-centered education affordable, with a focus on giving underprivileged and rural students access to higher education. The institution's regular procedures for mobilizing resources and effectively using them are well-defined.

Intuitional Strategy:

The Institution gets funding for its operations from its internal sources, which include bank interest and tuition fees paid by students. The institution strongly advises its departments to look for funding from intra- and inter-collegiate events, conferences, and seminars for their programs. Institutional finances for paying staff wages, purchasing supplies for departments, maintaining and repairing buildings, allocating cash for departmental operations, and performing other institutional tasks.

The accounts department sends the Chairman and treasurer a monthly report of all fee revenues so he can review and understand the institution's financial status. The institution is dedicated to following the protocols that prioritize the administration of the institution's finances. By doing this, the organization upholds its promises of openness, responsibility, and the ongoing development of its learner-centered programming. The institution's chairman authorizes all financial transactions.

Resource Utilization

Scholarship:

Based on the student's financial status and academic standing, the istitution offers scholarships to empower rural students with a rich curriculum. The institution offers scholarships to students in

economically disadvantaged sections through the various scholarships.

Organizing Programmes:

The Institution honors the resource persons with a cash honorarium, food and accommodation, and shields, and also the students get their participation certificates, and meritorious awards/ certificates on special occasions. Seminars, conferences, and workshops assist with departmental activities.

Infrastructure and Maintenance:

Every year the laboratory equipment, software updating, the CS laboratories, the condition of the benches, fans, lights, projectors, generators, and the annual maintenance of elevators, solar panels, and buses are maintained and audited in working condition.

Internal and External Audit:

SEC's Internal Audit division is staffed by highly qualified financial specialists. This Internal Audit is conducted by the department heads. Regular internal audits are performed to ensure that all financial transactions have been authorized by the proper authorities by the rules, and effective measures are implemented in response to audit findings to further improve the system. It also ensures that accurate financial records are kept.

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:

As per the guidelines of the National Assessment and Accreditation Council (NAAC) the Internal Quality Assurance Cell (IQAC) of our institution was established by the management and Principal in the year 2018. It is formed to enhance the quality of an educational institution. IQAC is to develop a system for apprehensive, compatible, and impetus improvement in the overall performance of the institution. It will focus on all efforts and measures of the institution towards nurturing academic excellence.

Strategies of IQAC

The Internal Quality Assurance Cell (IQAC) of Surya Engineering College plays a vital role in ensuring and enhancing the quality of education and overall institutional functioning. The strategies followed to the overall improvement of performance and ability to provide high-quality education to students.

- Working for the development and Application of quality Benchmarks.
- Involving in continuous Monitoring and Evaluation of Academic and Administrative processes.
- Maintaining proper feedback mechanisms.
- To prepare Annual Quality Assurance Report(AQAR)
- Collaborating and working towards the achievement and maintaining accreditation for the institution.
- Implementing quality enhancement initiatives.

Functions of IQAC

- Facilitating the creation collaborative learning environment.
- To promote and support the professional development of faculty and staff members.
- To ensure adequate student support and welfare
- To maintain and improve infrastructure and facilities.
- To encourage and support research and funding activities.
- To promote community engagement and social responsibility initiatives
- To ensure that the college complies with all regulatory bodies.
- To organize seminars, workshops, Faculty development, and administrative training programs to enhance their skills and knowledge.
- To maintain comprehensive records of all IQAC activities including meeting minutes reports and documentation related to accreditation and quality improvement initiatives.
- To foster effective communication and coordination among various departments and stakeholders within the college to ensure a cohesive approach to quality enhancements.
- Maintenance of institutional database through the campus management system.
- Regular conduct of Academic and Administrative Audits and feedback follow-up.
- Documenting various programs and activities conducted to lead to quality improvement.

Benefits of IQAC

- IQAC enhances the Quality of Education
- IQAC promotes a culture of continuous improvement.
- It takes effort to maintain and enhance quality that can lead to institutional accreditation and recognition.
- IQAC encourages innovative teaching and learning practices, which can lead to more engaging and effective educational experiences for students.
- The focus on continuous improvement ensures that quality enhancement efforts are sustainable over the long term.
- Improved quality can enhance the institution's competitiveness on a global scale, attracting students, faculty, and collaborations from around the world.
- Through feedback mechanisms and quality enhancement initiatives, the IQAC can address the concerns and needs of various stakeholders, including students, faculty, parents, alumni, and

industry which leads to satisfaction.

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:

Surya Engineering College (SEC) has taken several steps toward gender equity and curricular sensitization, as evidenced by the initiatives and activities connected to the challenges that members of the public experience with gender equity. When we talk about gender equity, we mean something more sophisticated and important than equality. By including specific units in all the courses the institution offers its students, including Human and Gender Rights, Disaster Management, Environmental Science and Engineering, and Organizational Behavior towards gender equity, the institution has made sure that gender equity has value-added chapters in the curriculum.

The institution steadily improved the promotion manually raising awareness to digitally raising awareness among the students about the importance of gender equity in every situation. Aside from the digitalized programs, the school also considered gender equity while providing the students with the same set of knowledge. This enabled the students and become motivated and learn more out of their self-interest. The university has started several co-curricular programs for both students and faculty for social well-being in addition to the curriculum.

The Women's Common Room, an isolated place for female students and professors to take a personal space after a hard day of class, has been mandated by the institution, so there are no questions about the amenities for women on campus. This room is used by people to unwind and relax after their daily activities. Since there is access to a women's restroom for their hygiene and health, it also acts as a recreational area for the female students. Additionally, a women's grievances cell has been established to safeguard female staff members and students against all forms of sexual harassment. The cell was established to address the accusations of sexual harassment and gender discrimination made by women. Sanitary pads are given to women together with a hygienic method of disposal. Given the greater attention being paid to women's safety, concerns around sexual assault and harassment of women have recently increased. To ensure the protection of women on campus, there are adequate CCTV cameras scattered about. Preserving a safe and supportive campus. Management should protect the environment, but it also faces challenges that must be resolved. In every class, one girl student is made the class representative. The girl students are encouraged to be top-level executives of various cells like women development cells and clubs through these cells and club various programs are we organized every year.

Hostel and college premises have 24 x 7 security support with CC TV surveillance cameras (15), along with 6 security guards at various locations round the clock. Women Physical directors are appointed for coaching and accompany with them for the events.

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:

Our Institution's efforts to create an inclusive environment that promotes tolerance, harmony, and awareness of constitutional obligations encompass a range of initiatives designed to foster a diverse and respectful community. These efforts are critical for cultivating a setting where individuals from various cultural, regional, linguistic, communal, and socioeconomic backgrounds can coexist harmoniously while understanding their rights and responsibilities as citizens.

One primary approach is through curriculum integration. Our Institution can incorporate diverse perspectives and narratives into its curriculum, enabling students to learn about different cultures, languages, and histories.

By showcasing the richness of human experiences, students develop empathy and a broader worldview, contributing to a more accepting environment. Promoting cultural events and activities also plays a crucial role.

Our Honorable Principal has permitted our students to conduct a common festival program in our college. This festival creates a bond between Staff and Students. These Common festivals are New Year, Pongal, International Women's Day, Christmas, etc., This Celebration brings unity among all the students to learn about different festivals.

Celebrations of various festivals, cultural weeks, and language exchange programs encourage interaction and understanding among students from different backgrounds. These events provide a platform for sharing traditions, enhancing cross-cultural communication, and dismantling stereotypes.

Lectures, seminars, and debates on constitutional rights, duties, and responsibilities foster civic engagement. Such initiatives empower individuals to participate actively in their communities, advocating for positive change while upholding democratic values.

Our college had established diversity and inclusion committees comprising representatives from various backgrounds. These committees can formulate policies and guidelines to ensure a welcoming atmosphere. Regular assessments of institutional practices can help to identify areas for improvement and guide future initiatives. Technology also plays a role in these efforts. Online platforms can facilitate discussions, share resources, and promote awareness campaigns about cultural diversity, tolerance, and citizenship obligations. These tools expand the reach of initiatives beyond physical boundaries.

In conclusion, our college efforts to provide an inclusive environment and promote tolerance, harmony, and awareness of constitutional obligations required a multifaceted approach. By integrating diverse perspectives into curricular organizing cultural events, providing training, fostering dialogue, and prioritizing socioeconomic inclusivity, educational institutions can create a space where students and employees understand and respect each other's differences while upholding their roles as responsible citizens. These efforts collectively to contribute a more harmonious and equitable society.

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

1. Title of the Practice: Planting for a Greener Tomorrow

2. Objectives of the Practice

The main objective of tree plantation is to aware students, regarding the environment

• To raise the level of the student thinking regarding Tree plantation work.

• To create interest among the students regarding the values of trees & plants.

• To inculcate the program of plantation can change the climate and during fresher's day as well

as farewell day every year students are asking to receive and plant free saplings to produce oxygen.

3. The Context

Tree plantation is crucial for forestry, maintaining ecological balance, and covering a significant portion of Earth's surface. However, rapid deforestation and settlements have reduced forest cover. Our contribution to reforestation can help recover from deforestation and increase the tree plantation pace. Trees provide oxygen, carbon dioxide filtering, soil erosion prevention, food, shelter, and other essentials.

4. The Practice

It is the important duty of students to plant more and more trees, herbs, and climbers because these are the carriers of rain and clouds. Only nature can turn up the balance of nature to produce more and more oxygen, but it is only possible when our surroundings are full of trees and plants. This type of tree plantation program is only possible when our new generation becomes more & more sincere and active towards the Tree plantation program. This tree plantation makes the points of success, it is sure that our nature will be in balance and the life of the people can be happy & prosperous. So, we should plant more & more trees and protect them for the future of the new generation.

5. Evidence of Success

Promoting environmental awareness and encouraging students to actively participate in planting for a greener tomorrow is a commendable initiative. Our institution organizes tree-planting events on the school campus or in nearby areas. The institution collaborates with local environmental organizations or government agencies for support and guidance. The institution assigns a specific place for each class or group of students to take responsibility for. It establishes a greenhouse or indoor garden within the school premises. Planting for a Greener Tomorrow has encouraged students to take care of potted plants in classrooms or common areas. It can also be a great way to teach about different plant species and their care requirements.

6. Problems Encountered and Resources Required

It's great to hear that the experienced faculties were able to convince some students to participate in the plantation work despite the broken tree branches and initial hesitation. It's heartening to see the senior students taking the initiative to encourage their juniors to join in and promote environmental awareness through NSS activities. Planting more trees is always a positive step towards preserving our natural surroundings.

BEST PRACTICE-2

1. Title of the Practice: Promoting the Students for a Better Corporate Environment

2. The Objective of the Practice

•   Preparing students for Campus to Corporate Jobs transition

•   To help students improve their communication (Spoken, Written, and Presentation Skills)

• To build confidence, develop self-esteem, and bring positive changes in the attitude and behavior of the participants.

• To impart career-specific practical inputs along with sharing the expectations of corporate.

• To give inputs into writing their resumes facing interviews to learning corporate etiquette.

• To resolve personal development issues through detailed interaction and question-answer sessions.

3. The Context

Campus-to-corporate training is a soft skills program designed to help students transition smoothly into corporate life. It provides tips on corporate communication, time management, and mindset shift. The program enhances students' confidence, offers tools like goal setting, teamwork, and stress management, and aims to improve career growth and professional success.

4. The Practice

College to-corporate training is a soft skill program designed to help students transition smoothly into corporate life. It focuses on teaching basic corporate communication, time management, and mindset shifts. The program enhances confidence, offers tools like goal setting, teamwork, and stress management training, and aims to improve career growth and professional success. Corporate culture differs from college sessions, requiring effective communication, time management, teamwork, and prioritization. The program helps students develop communication and presentation skills in both academic and professional settings, empowering even shy students to enhance their skills.

1. Presentation Skills

2. Group Discussion

3. Resume Preparation

4. Interview Preparation

5. Stress Management

6. Leadership Qualities

7. Goal Setting

8. Time Management

9. Team Player, etc.

5. Evidence of Success

Adjusting to corporate life is a complex process that can either build or ruin a career. Many applicants struggle to find jobs, feeling unappreciated and lacking immediate rewards. This can lead to feelings of loss and confusion. To avoid this, it's essential to choose a field and create expertise within your graduation or post-graduation period. Many institutions now offer experimental training in certificate courses like Electric Vehicle Technology, 3D Printing, Block chain Technology, Robotics, AI/ML, Big Data Analytics, Digital Marketing, Talent Management, and Entrepreneurship.

6. Problems Encountered and Resources Required

Keeping students engaged and motivated in learning can be challenging, especially in formal settings. Educators must ensure students stay on task and work calmly. Language educators teaching their native language overseas face challenges, such as engaging students who refuse to participate. The role of language teachers is to help students improve fluency in their target language, but the classroom environment can be goal-oriented, putting additional pressure on teachers to deliver top-quality teaching to achieve desired grades.

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:

The Surya Engineering College (SEC) is located in a rural area at Mettukadai. Our students (BATCH: 2018–2023) have completed their degrees at Anna University, Chennai. We strive hard continuously, to achieve academic excellence in Science, Engineering, Technology, Management, and Research. The institution aims to produce the most competent Scientists, Engineers, Entrepreneurs, Managers, and Researchers through objective and innovative teaching methods, by dedicated and duty-conscious faculty. The process improvement involves continuous and consistent updating of facilities, welfare, and quality improvement of the faculty.

The Institution aims to enhance student's skills in engineering, particularly in Science and Humanities, through an outreach program. The program raises awareness about individual skill sets, empowers them towards engineering, and provides certifications for job opportunities.

OBJECTIVE OF PROGRAM:

When creating a program to motivate students on a leader's birthday, it's important to establish clear objectives to guide the planning and execution of the event. The objectives will help to ensure that the program is purposeful, impactful, and aligned with the desired outcomes. To inspire students by highlighting the leader's exemplary leadership qualities, encouraging them to develop their own leadership skills and values.

YEAR OF INITIATION:

Our institution organized a great outreach program for students which were quite eventful. The program started with an inauguration ceremony and then proceeded to the morning session which included lectures focused on important national leader's birthdays and other significant days. We had a tea break after the morning lecture and then a PowerPoint presentation was shown in the audio-visual room highlighting the important days. In the afternoon session, there were some exciting games that kept everyone enthusiastic. The program concluded with a formal valedictory function. It was a great opportunity for students to learn and have fun at the same time.

OUTCOME OF THE PROGRAM:

Feedback from students is collected and documented for each year's event. Also, it's wonderful that our Institution organized informative programs for upper primary students which created an interest in life sciences, particularly in engineering. Encouraging students to pursue their interests in these fields can lead to a brighter future for them and society as a whole.

OUTREACH AS A CONTINUOUS PROCESS:

To date, the program or event has had a positive impact on the students, particularly for those from rural backgrounds in upper primary classes. It's great that the outreach program engages students with both humanities and life sciences, providing them with valuable information. Celebrating these events not only provides an opportunity for students to learn, but also raises awareness about important days. It's important for students to be aware of significant events and celebrations, as this can broaden their knowledge and understanding of the world around them.

EVENTS CONDUCTED IN (2022-2023):

WORLD YOUTH DAY:

Our Institution had a great celebration on August 12th for Dr. A.P.J. Abdul Kalam day. He was a true "Trendsetter" and it's wonderful to see his legacy being celebrated. It's also great that your college organized the "National Leader Games Online" event and that more students participated. We congratulated to the winners who received certificates and prizes.

CHILDREN'S DAY:

Surya Engineering College (SEC) had a great time celebrating Jawaharlal Nehru Day on 14th November. Celebrating it as Children's Day is a great way to honor his memory and legacy. Our Institution distributed sweets for the students and that many participated in the "Hangman" event. We congratulated all the winners who received certificates and prizes.

EVENTS CONDUCTED IN (2021-2022):

LOVE AND HUMANITY DAY:

Our Institution celebrated Mother Teresa Day on August 26th. Conducting "Literary Quizzes" on this special day is a wonderful way to honor the founder of the Missionaries of Charity. It's also heartening to know that the lecturer focused on the themes of love and humanity. Congrats to the students who participated in the literary quiz, and kudos to the winners for receiving certificates and prizes.

INTERNATIONAL DAY OF NON–VIOLENCE:

On October 2nd, we celebrated Mohandas Karamchand Gandhi Day, which is also recognized as International Day of Non-Violence. During the celebration, we organized a "Word Ladder" game for the students. After the game, we distributed certificates and prizes to the winners to appreciate their efforts.

EVENTS CONDUCTED IN (2020-2021):

DRAVIDIAN MOVEMENT:

Our Institution had a meaningful celebration of Thanthai Periyar Day on September 17th. It's great that the lecturer focused on the topic of Dravidian Cultures to educate and inspire the students. The '4 pics word' game sounds like a fun activity to engage everyone in the celebration. We congratulated to all the students who participated in the celebration, and kudos to the winners for their achievements and for receiving prizes..

COMPLETED WORKS OF SWAMI VIVEKANANDA:

Our institution celebrates Vivekananda Day on January 12th. Swami Vivekananda made significant contributions to the world of philosophy and spirituality with his "complete works," and it's wonderful that the lecturer focused on his complete works to educate and inspire the students. We conducted a Letter Blocks game and distributed prizes and certificates to the winners.

EVENTS CONDUCTED IN (2019-2020):

EQUALITY DAY:

    On 14th of April was the celebration of Ambedkar Jayanthi or Bhim Jayanthi Day. His day was also celebrated as "Equality Day". On this day, we conducted a "Sight words Bingo" game. The students are participated in this game. We have distributed prizes and certificates to the winners.

TEACHER'S DAY:

    Every year, September 5th is celebrated as Dr. Radhakrishnan Day. His day was celebrated as Teacher's Day. He was famous for the Bharat Ratna Award. On this day, we conducted a 'Vocabulary word search' game. More students participated in this game. We have distributed prizes and certificates to the students.

EVENTS CONDUCTED IN (2018-2019):

MAHAKAVI BHARATHIYAR DAY:

    December 11th was the celebration of Subramanian Bharathi Day. He was the greatest well-known Tamil poet. The lecturer focused mainly on his great works of Tamil poetry. More students participated in the essay writing competition. We distributed the prizes and certificates to the students.

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

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5. CONCLUSION

Additional Information :

Surya Engineering College was established to serve the poor community people for this reason with quality education, ethics, social responsibilities to the students, all-round improvement of the faculty.

Institutional Scholarship for meritorious students every year.

Incentives for research outcomes like IPR.

Special allowance on completion of Ph.D.

Free transport for faculty staff and students.

Feedback mechanism for curriculum design.

Career 360 ranking.

The college conducts state/zonal level Inter-collegiate sports events at Anna University.

Concluding Remarks :

The Management of Surya Engineering College (SEC) is keen on developing the Institution to a greater height through state-of-the-art infrastructure, experienced faculty, and skilled staff. The Institution enjoys a healthy and positive relationship between faculty and students. While teachers are firm, they deal with students with kindness and concern.

SEC believes in participatory administration and faculty shoulder greater responsibility and demonstrate leadership with dedication. The alumni of the Institution reconnect with their alma mater by offering guest lectures and internships and interacting with students through knowledge-sharing sessions.

The Institution has MoUs with industries and established centers of excellence with their support for training and placement. They have adopted the models viz, "Train & Hire" and "Hire & Train" so that the students are ready for development.

The management adopts transparency in governance, practices secularism and provides equal opportunity for everyone on the campus. The women employees and female students enjoy equal access to resources without bias.

The documentation of all relevant academic and administrative processes; granting of seed money for research; the quality of Research & Publications are monitored by a Research advisory committee; collaboration with industry for consultancy and research.

SEC with its well-drawn vision and mission, envisioned strategies/perspective plan strives to equip students with the academic edge and skills required to explore their chosen field to a more advanced level with a rewarding and unparalleled learning experience. SEC provides an environment that sets the learners on the right path towards a professionally rewarding career and personally fulfilling future; it's a place to explore new interests and experience a wholesome education.

The self-study report is the self-introspection of the Institution and ascertains a critical analysis of its strengths, weaknesses, challenges, and opportunities.

The Institution is committed to providing quality education to make the individual become technologically superior, socially conscious, responsible and contribute to the growth of the Nation.