



YEARLY STATUS REPORT - 2022-2023

Part A	
Data of the Institution	
1.Name of the Institution	St. Xavier's Catholic College of Engineering
• Name of the Head of the institution	Dr. J. Maheswaran
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	04652232560
• Alternate phone No.	04652237361
• Mobile No. (Principal)	9842799973
• Registered e-mail ID (Principal)	info@sxcce.edu.in
• Address	Chunkankadai
• City/Town	Nagercoil
• State/UT	TamilNadu
• Pin Code	629003
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	26/05/2022
• Type of Institution	Co-education
• Location	Rural

• Financial Status	Self-financing
• Name of the IQAC Co-ordinator/Director	Dr. J. Annrose
• Phone No.	04652232560
• Mobile No:	04652237361
• IQAC e-mail ID	iqac@sxcce.edu.in
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.sxcce.edu.in/wp-content/uploads/2023/10/AQAR-2021-2022.pdf
4.Was the Academic Calendar prepared for that year?	Yes
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.sxcce.edu.in/wp-content/uploads/2022/09/Academic-Calendar-2022-2023.pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.02	2017	12/09/2017	30/09/2022
Cycle 2	A	3.02	2022	01/09/2022	31/12/2027

6.Date of Establishment of IQAC**29/08/2016****7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?**

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Dr. T. Latha	VLSI Implementation	Ministry of Electronics &IT	25/05/2022	3800000
St. Xavier's Catholic College of Engineering	Autonomous Status	UGC, New Delhi	26/05/2022	0

8. Provide details regarding the composition of the IQAC:		
<ul style="list-style-type: none"> Upload the latest notification regarding the composition of the IQAC by the HEI 	View File	
9.No. of IQAC meetings held during the year	4	
<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 	Yes	
<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded	
10. Did IQAC receive funding from any funding agency to support its activities during the year?	No	
<ul style="list-style-type: none"> If yes, mention the amount 		
11. Significant contributions made by IQAC during the current year (maximum five bullets)		
<p>NBA compliance inspection for the three programs Electronics & Communication Engineering, Electrical and Electronics Engineering, and Mechanical Engineering was held on 13 August 2022. The three UG programs were further accredited by the NBA under the Tier II category with a validity period from 2022-2023 to 2024-2025.</p>		
<p>After minor modifications in the existing Faculty Performance Appraisal format, the filled in formats were collected from all the faculty members and analysed by conducting personal interview for the academic year 2021-2022 during February 2023. Observations were shared with faculty members for their improvement.</p>		
<p>A one-day workshop for all the faculty members on 'NAAC benchmarks, key indicators and SOP under Autonomous Category' was conducted on 18-03-2023. A one-day staff orientation on 'Personality Development' was organized for the non-teaching on 30-03-2023.</p>		
<p>Through our college remote center, a one-week online FDP on "Free and Open-source software for Effective Curriculum" was organized by NITTTTR Chandigarh from 20-02-2023 to 24-02-2023</p>		
<p>Academic audits (course files, attendance and assessment records,</p>		

laboratory audits, professional and nonprofessional cell activities) for the academic year 2022-2023 were conducted by the subject experts in all domains from University College of Engineering, Nagercoil. The observations are shared with respective Heads of the Department and faculty advisors of various cells. An audit was conducted on analyzing the performance of the activities conducted by Non-academic sections (Canteen, Transport, Store, Hostels, Maintenance and Hygienic)

12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
To effectively design the curriculum & syllabus and to mold the students through holistic development, all the faculty members are asked to complete an online course related to this topic	99 faculty members completed the course on Student Psychology through Swayam platform and 78 faculty members attended the FDP on Effective Curriculum Design and Free and Open-source software for Effective Curriculum conducted by NITTTR Chandigarh
Every department should conduct at least one value added course of minimum 30 period duration for every student in an academic year.	23 value added certification courses have conducted, 1570 students were enrolled and 794 students were successfully completed.
To enhance the ability of experiential learning, every student undergoes Mini Project, Field Project and Internship, preferably one in an academic year starting from first year to pre-final year.	All the III-year students completed mini project. 41 students from civil department undergone in plant training. Around 270 students have undergone internship.
To improve the student progression, graduation rate be greater than or equal to 90%.	Overall graduation rate of the 2022 batch is 85.86 %.
To inculcate the research culture, each department applies for at least 2 major projects from funding agencies.	6 major and 3 minor projects have applied with funding agencies.
Departments take steps to start	Mechanical and EEE department

centre of excellence. At least two departments start centre of excellence.	planned and taken initiatives to start Electric Vehicle Centre of Excellence.
To improve the startup and innovation, at least five incubates utilize the college incubation centre.	Incubation center has started, and one company 'Flutter Frog' is registered as an incubate
To promote higher studies, motivation and guidance for GATE be strengthened starting from first year.	59 students registered for GATE 2023.
Departments take steps to start consultancy work and generate income.	A common broucher is prepared through consultancy work, Mechanical department earned Rs. 5000/- and through testing Civil department generated income of about Rs.302360 /-.

13.Was the AQAR placed before the statutory body?	Yes
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- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Academic Administrative Meeting	12/12/2023

14.Was the institutional data submitted to AISHE ?	Yes
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- Year

Year	Date of Submission
2021-2022	18/01/2023

15.Multidisciplinary / interdisciplinary
We have the disciplines of Engineering, Management, Computer Applications, Humanities, and Science, all of which encourage a multidisciplinary approach.

Our institution's vision is to develop a technically empowered humane society by imparting intellectual, social, physical, emotional, and moral values in an integrated manner toward optimal holistic human development. Our curriculum offers a blend of Humanities Science and STEM courses. Humanities Science courses include subjects like English, Professional Ethics, Total Quality Management, and Principles of Management. These courses aim to instill a strong sense of ethics, effective communication skills, and an understanding of societal structures and dynamics. STEM courses include Basic Sciences, Engineering Science, Employability Enhancement, Professional Core, and other elective courses. This integration fosters creativity, innovation, critical thinking, problem-solving abilities, teamwork, communication, leadership, and more. Our curriculum also includes Universal Human Values and Value-based Education on various topics. These courses aim to instill a strong sense of ethics and values in our students, preparing them to be responsible and ethical professionals. This enables positive contributions to society, both through their professional work and personal lives.

We offer flexible and innovative curricula that include credit-based courses and projects in the areas of community engagement and service, environmental education, and value-based education. This is all aimed towards the attainment of a holistic and multidisciplinary education. Our curriculum is designed to be flexible, allowing for modifications based on the recommendations of the Board of Studies, which are approved by our autonomous academic council. This flexibility ensures that our curriculum remains relevant and up-to-date, catering to the evolving needs of society and the professional world.

We encourage our staff and students to undertake at least one local field trip per semester. These field trips are designed to identify problems and difficulties in our local community that could potentially be solved with technological support. This hands-on approach not only enhances the learning experience but also fosters a sense of social responsibility among our students. Environmental education is another key component of our curriculum. We believe that as future leaders, our students must be aware of the environmental challenges facing our planet and be equipped with the knowledge and skills to address these challenges. Therefore, we incorporate environmental education into our curriculum ensuring sustainable development goals (SDG).

Our curriculum provides the opportunity for students to pursue honors and minor specializations in all engineering programs in

addition to their regular degree. This allows students to delve deeper into their chosen field of study and gain a more comprehensive understanding of the subject. In addition to professional electives, students have the option to choose open elective courses offered by other disciplines. This encourages interdisciplinary and multidisciplinary learning, broadening the student's knowledge base and fostering a more holistic educational experience.

Interdepartmental seminars, workshops, faculty development programs, and conferences are promoted to boost interdisciplinary research. Students are also encouraged to undertake interdisciplinary projects. Staff and students actively engage in interdisciplinary research, applying for projects, and publishing articles in journals and conferences. Through these initiatives, our institution is committed to delivering a well-rounded and multidisciplinary education. Our aim is to prepare students not only for their professional careers but also to be responsible and contributing members of society.

16.Academic bank of credits (ABC):

Our institution is registered with the National Academic Depository (NAD) and eligible to register with the Academic Bank of Credits. We plan to initiate the registration process upon receiving instructions from the University. We are also in the process of generating UMIS IDs for all students for the purpose of transfer and dual degrees.

Our students have the opportunity to enroll in Swayam MOOC courses for credit transfer, as provided for in our curriculum and regulation (R2021- Anna University and SXCCE R-2022 regulations). Both our faculty and students have taken courses through the 'Coursera Basic Campus Plan', demonstrating our institution's commitment to the internationalization of education.

Our faculty members have the flexibility to design the curriculum, pedagogical tools, materials, and assessment methods within the provided guidelines and framework. To support this, our institution conducts staff empowerment programs related to effective curriculum design and implementation.

17.Skill development:

Through placement cell, we are organizing trainings from 3rd

semester to 7th semester. In the 3rd sem & 4th sem four exclusive hours per week are dedicated to student's skills development. This contains two hours of coding training in C, and C++ company specific trainings. The other two hours are for soft skills training which covers Effective Communication, Self-evaluation / self-awareness - Goal setting and positive thinking - Self-esteem and confidence - Public speaking - Extempore - Body language and Observation skills. For third-year students, four hours per week of skills development training is provided which includes two hours each for coding and soft skills in the 5th semester and two hours of coding and quantitative aptitude in the 6th semester.

Coding skills cover C++, Java, and company-specific training. Soft skills include Time management, Emotional Quotient, Stress management Values of life, Behavioural attitudes, and Employer's expectations, interview skills, resume building and enhancement.

Quantitative aptitude and logical reasoning sessions in VIth semester cover Numbers, Time & Work, Ratio & Proportions, Analogy - Blood Relations/Family Tree - Calendar - Clocks, Images (Mirror & Water) - Coding-Decoding - Cubes and Dices - Data Sufficiency

In the final year (VII semester) 4 hours per week of skills development sessions are provided to the students which comprise 2 hours of coding and 2 hours of quantitative aptitude skills training. Both these training includes company-specific training for companies like

Google, Microsoft, Zoho, TCS, Infosys, Cognizant etc.

Regular assessments were conducted, and student's progress was assessed systematically.

Students are segregated based on their level of competency in quantitative aptitude, and communication skills and trained separately.

Students are continuously observed and provided systematic reports on the progress or quality of student competency in employable skills.

Regular placement interactive sessions by HR experts from multinational companies/start-up corporates were conducted to the students with an emphasis on the expectations of employers from fresh graduates.

To impart current industrial skills and to prepare industry readiness, company-specific certification courses were conducted by the certified trainers and industry experts.

To develop humanistic, ethical, human values of truth, righteous conduct, peace, love, nonviolence, and life-skills, we have 15 hours per semester value value-based education with detailed syllabus and guidelines.

With the help of the government of Tamil Nadu and ICT Academy, we have credit-based skill development courses in the current semester. Based on the choice of the students we have conducted 32 skill-development courses through Naan Mudhalvan and Nalya Thiran Schemes. They are AR VR Development, Big Data Analytics, Block Chain Development, Building Information Modelling, Cambridge, Cloud Essentials, Cyber Security, Design and construction of Steel Buildings, Digital Marketing, Electric Vehicle, Electric vehicle charging system, Embedded system design-board development and debug, EV Design, Full Stack, High Rise Building Design, Industrial Metaverse using mixed reality (XR), Industry 4.0, IoT, Machine Learning, Machine Learning With Applications to Object Recognition, Network Engineering, Network Essentials, Powering IOT Using Arduino/Raspberry Pi, Professional Development, Professional development -Microsoft office fundamentals, Professional Readiness for Innovation, Employment & Entrepreneurship, Robotic Process & Industrial Automation, Robotics Simulation for manufacturing, Smart & Advanced Manufacturing - Design & Simulation, Smart energy grid, Sustainable Building Design, Transportation Infrastructure Airports, Metros & Seaports

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

As English is the medium of instruction, we conduct our teaching in the English language. However, in remedial teaching and coaching classes, we use vernaculars upon the request of the learners. In the undergraduate curriculum at SXCCE, we offer "Heritage of Tamil" and "Tamils and Technology" as HSMC. For the PG 2022 curriculum and syllabus, we have an Audit Course on "Natamil Illakiyam" in the Tamil regional language.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

From 2017 onwards, we have been following Outcome Based Education (OBE) to measure the knowlege, skill, altitude and behaviour of the students. Based on this we have formulated our Vision, Mission with all the stakeholders as per the guidelines given by NBA and NAAC. The PEOs & PSOs are defined in the departments based on the specialization and expertize of the faculty members. To accomplish these outcomes, the curriculum and syllabus are designed based on the course outcome.

Our faculty members have designed the new curriculum and syllabi toward learner-centric approach through the curriculum feedback collected from the stakeholders. Also, our management is very keen to add the courses to the curriculum that enhance students'

knowledge, skill, and attitude in order to better prepare them for the workforce, cutting-edge technology, and providing technical support to societal needs.

Our faculty members set specific learning objectives and aligned them with the teaching, learning, and evaluation activities while adhering to the Regulation-2021 curriculum and syllabus provided by our parent university. The course experts refine the course outcome based on Bloom's cognitive taxonomy level. In the course delivery plan, they can define the pedagogical model, teaching methods and materials, continuous assessment methods, etc. to improve high-order thinking and problem-solving ability. These course outcomes are verified by the department IQAC coordinator and the entire course file is verified by the head of the department. Also, the IQAC has given training to all the faculty members about OBE-based classroom teaching and learner-centric activities. E- question bank preparation and verification based on Bloom's cognitive level has been practiced. According to the instructions provided by the IQAC, each course's instructor prepares the questions and uploads them to the college automation programme. The department's IQAC coordinator reviews the questions and accepts them if there are no problems; otherwise, they are sent back for revisions. At least 60% of the internal assessment exam content, end semester questions and assignment questions should be at a higher-order level, according to the standards and method provided by IQAC. Through these continuous assessment tools and end semester examination direct attainment of COs, POs, and PSOs are calculated, and through indirect assessment tools like course exit surveys and feedback indirect attainment will be determined. With this assessment, we could able to evaluate the cognitive outcome of each student.

20.Distance education/online education:

To promote online education, our faculty members are encouraged to deliver video lectures in social media and virtual classrooms. We have audio-video recording centre for effective e-content development and lecture capturing system. Through which our faculty members record the lecture videos and upload it in the Learning Management System (LMS)

Extended Profile

1.Programme

1.1

17

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 2184

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2 573

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 2184

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1 547

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 161

Number of full-time teachers during the year:

Extended Profile	
1.Programme	
1.1 Number of programmes offered during the year:	17
File Description	Documents
Institutional Data in Prescribed Format	View File
2.Student	
2.1 Total number of students during the year:	2184
File Description	Documents
Institutional data in Prescribed format	View File
2.2 Number of outgoing / final year students during the year:	573
File Description	Documents
Institutional Data in Prescribed Format	View File
2.3 Number of students who appeared for the examinations conducted by the institution during the year:	2184
File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1 Number of courses in all programmes during the year:	547
File Description	Documents
Institutional Data in Prescribed Format	View File
3.2	161

Number of full-time teachers during the year:		
File Description	Documents	
Institutional Data in Prescribed Format	View File	
3.3	19	
Number of sanctioned posts for the year:		
4.Institution		
4.1	294	
Number of seats earmarked for reserved categories as per GOI/State Government during the year:		
4.2	71	
Total number of Classrooms and Seminar halls		
4.3	1031	
Total number of computers on campus for academic purposes		
4.4	706.72774	
Total expenditure, excluding salary, during the year (INR in Lakhs):		

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Anna University R-2017 & R-2021 and the first autonomous SXCCE Regulation 2022 are followed in the academic year 2022-2023. All the three regulations are based on the choice-based credit system. SXCCE R-2022 includes theory courses, practical courses and laboratory-integrated theory courses that shall be categorized as follows: Humanities, Social Sciences and Management Courses (HSMC), Basic Sciences Courses (BSC), Engineering Sciences Courses (ESC), Professional Core Courses (PCC), Professional Elective Courses (PEC), Open Elective Courses (OEC) include

interdisciplinary, Employability Enhancement Courses (EEC), Audit courses (AC), Additional Mandatory Courses(MC) include higher order thinking, Value-based education to meet the local, national and global needs. In the academic year 2022-2023, 15% of syllabus revision was carried out in SXCCE R-2022 based on the current trends, job opportunities, industry and society needs.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://www.sxcce.edu.in/regulations/

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

17

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

91

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

27

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

17

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The mandatory course GE8291-Environmental Science and Engineering is included for all UG Engineering Students. Our UG students opted for open elective courses like OCE551- Air Pollution and Control Engineering and OCY751- Waste Water Treatment to get an awareness of an eco-friendly environment.

UG Engineering students were chosen an elective course GE8076-Professional Ethics in Engineering.

MC5006-Professional Ethics and MC5035- Professional Ethics in IT elective courses were chosen by MCA students to create awareness of Engineering Ethics and Human Values, to instill Moral Values, Social Values, and Loyalty, and to appreciate the rights of others.

The institution provides value education courses VE101-My Life and My Place in the Universe, VE201-My Life and the Other, VE301 My Life is My Responsibility, VE401-Understanding My Education and

Developing Maturity, VE501-Understanding the Society and Becoming a Leader, VE601-Practicing Leadership for Social Change, VE701-Balancing Professional, Personal, Family for Fullness of Life, VE801-Innovative Social Commitment, Spirituality and Social Networking for all UG engineering students. Women's cell promotes gender equality among students through seminars, and workshops and also deals with safety and security issues for female students. The grievance cell deals with the complaints related to any genderbased issues of women in the college if any.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

23

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

1377

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1077

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni **A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.sxcce.edu.in/wp-content/uploads/2023/12/Curriculum-Feedback.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following **A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.sxcce.edu.in/wp-content/uploads/2023/11/Feedback-2022-2023.pdf
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

705

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

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

137

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The advanced learners and slow learners are identified through the performance in internal tests as well as the past history of arrears. The performances of the advanced learners are improved by giving motivation through mentors and course in-charges. Regular Placement training programs are conducted to improve their skills on aptitude tests and Group discussion to get placement in companies. Advanced learners whose CGPA is greater than 7.5 upto 5th semester can take additional courses as Honors and minors. Advanced learners are motivated by giving prizes and awards.

The identified slow learners are given more attention by the course in-charges. Mentors meet and motivate the students to improve their academic performance. Meeting with parents of students is conducted once in every semester to identify the difficulties faced by their wards and to motivate them to improve their results. The performance of the slow learners is improved by giving more attention in the classroom. Coaching classes are conducted for the slow learners to guide them to improve the results. Improvement tests are conducted for the slow learners to improve their internal marks.

Best Student Awards are given to the final year students based on the performance of the student in the curricular and co-curricular activities. Bridge courses are conducted to cater diversity of

students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/humanities-and-sciences/shax/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
10/08/2022	2184	161

File Description	Documents
Upload any additional information	View File

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:

To improve the teaching and learning process various pedagogical initiatives are taken by the faculty members. Assignments are given to the students to promote self-learning. Students are motivated for doing effective project work by conducting project orientation programs and project competitions. Various competitions are conducted for the students and prizes are given for motivating them. Both individual and team events are conducted for improve the participative learning. To keep students engaged in the classroom, faculty takes efforts for the conduction of guest lectures, workshops, seminars and student presentations. The students are encouraged to take up internship programs during their semester break. They also help the students by interacting with the industry experts, to get recommendation letters and other necessary support through the HOD and the Principal. Training in industries, industrial visits, survey camps, mini projects etc help to improve the learning of students. Many enrichment programme like skill development and career opportunities are conducted for the students to improve their skills.

File Description	Documents
Upload any additional information	View File
Link for additional Information	https://www.sxcce.edu.in/electronics-and-communication-engineering/guest-lectures/

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

All the classrooms are equipped with LCD projectors for Power Point presentation, Animation, and Video presentations. Internet facility is available for students and faculty members. WiFi facility is available throughout the campus. Faculty members use Learning Management Systems like Google Classroom for teaching learning and assessment. Lecture videos are uploaded in YouTube and circulated to students. Course plan, course materials, question banks and other learning materials are shared with students through college automation software and LMSs.

Faculty members are taking advantage of sources like National Program on Technology Enhanced Learning (NPTEL), internet sources for effective teaching. To improve the teaching ability, the faculty is facilitated to access books and e-resources. Library has online access to the journals like IEEE, IET, ELSEVIER, SPRINGER with High-speed Wi-Fi Internet facility. Faculty members are motivated to attend Faculty Development Programmes to improve their skills. Teaching Development Cell is constituted to improve teaching pedagogy for effective teaching.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://classroom.google.com/w/NTIzOTk2OTk4NDc3/t/all
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

130

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Every semester academic calendar is prepared by the Dean of Academics. Commencement of classes, internal test schedule, model practical exam, model theory exam and last working day are mentioned in the academic calendar. Commencement of end-semester practical examinations and theory examinations are also mentioned in the academic calendar. Approved academic schedule is posted in the website and official groups. Based on the academic schedule course instructor prepare teaching plan for the course delivery. Internal assessment test time table and duty allocation are prepared by the exam cell. Project reviews are conducted based on the academic calendar. Course file submission, assessment record submission, mentor reports submission and question bank submission are based on the academic schedule. End semester exam time table is prepared by the Controller of Examination.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

161

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

80

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

12

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

24

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

13

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

The Controller of Examination (CoE) has implemented Examination Reforms and procedures for both end-semester and continuous assessment tests within the Examination Management System. The detailed process for conducting examinations is outlined in the examination manual. To streamline and automate exam-related tasks, the institution employs an in-house college automation system for continuous assessment and distinct software for end-semester examinations. This automation significantly reduces manual work, enhancing the efficiency of storage, manipulation, and retrieval of the entire examination process.

Key features of the continuous assessment process integrated in the

- Question Bank insertion aligned with CO and cognitive levels
- Question Bank verification and correction process
- Auto selection of Questions for the internal assessment examination
- Options for Mark entry, CO attainment calculation of each assessment tools and report generation in prescribed format
- Indirect assessment - getting course exit survey through the automation software
- Separate software with specific server for automating the end- semester examination
- Integrating end-semester examination and overall CO, PO, PSO attainment calculation and reporting mechanism
- Exam schedule, Seating and other notifications are communicated among students and faculty. Sending student performance via SMS to their parents

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/wp-content/uploads/2023/03/SXCCE-Examination-Manual.pdf

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

- Course-level and programme-level outcomes are defined for all the programmes.
- The Programme Educational Objectives, Programme Outcomes and Program Specific Outcomes are published on the department page of the college website, displayed in the corridors of the departments, and available in the course file.
- Course files and Lab manuals are prepared by the faculty members.
- Course files and Lab manuals contain PEO, PO, PSO and Course Outcomes.
- Every faculty member, on the first day of their class in a semester, discusses Vision, Mission, PEO, PO, PSO, CO and outcome mappings with the students.
- Laboratory course outcomes are displayed in the laboratories.
- Course outcomes covered in an internal examination are printed on the question paper.
- UG Programme Outcomes are printed in the 2022 wall calendar which is distributed to students, staff members and other stakeholders.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://www.sxcce.edu.in/wp-content/uploads/2023/12/Course-Outcome-2022-2023.pdf

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

- CO, PO and PSO Attainment targets are set before the commencement of each academic year.
- Assessment tools to assess the attainment of course outcomes are categorized as direct methods and indirect methods.
- Direct methods used to assess CO attainment are; students' performance in unit tests, and assignments (experiential learning, project based learning, case study, Group Discussion, Quiz)
- The indirect method used to assess CO attainment is a course exit survey.
- Course outcomes are calculated by giving 80% weightage to the direct assessment and 20% weightage to the indirect assessment. Direct assessment are calculated by taking 60% end semester examination and 40% continuous assessment methods for theory courses
- Programme outcomes and Programme specific outcomes are calculated from CO attainment as the direct assessment with the help of CO-PO mapping and programme exit survey as the indirect assessment.
- The attained CO, PO and PSOs are compared with the set attainment targets and appropriate actions are planned to improve the attainment.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

489

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://www.sxcce.edu.in/wp-content/uploads/2023/12/CoE-First-Annual-Report-2022-2023.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

<https://www.sxcce.edu.in/wp-content/uploads/2023/11/Feedback-2022-2023.pdf>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

St. Xavier's Catholic College of Engineering (SXCCE) is recognized as one of the renowned institutions with rich research ambience, located in the southern part of our country. The institution intends to emphasize on maintaining high standards in all the research activities by students, research scholars and faculty by providing certain criteria. The institution encourages the faculty and others conducting quality research through analysis and synthesis of current research technologies and develop new or improved processes and products for the benefit of the society. The policy developed by Centre For Research and Development (CFRD) acts as a framework for the development and implementation of quality research activities and good practices in the institution. The Research policies are developed with an objective to improve the Research performance of the students as well as overall development activities in the college, and these policies are in accordance to the Institute's Vision to produce optimal human, towards developing a technically-empowered humane society.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.sxcce.edu.in/wp-content/uploads/2023/01/Research_Policy_2.pdf
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

00

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	No File Uploaded
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

1

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	View File

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

38.07

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

1

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/electronics-and-communication-engineering/research/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

34

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

3

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

- More than 12 scholars have registered for their Ph.D during the 2022-2023 academic year. Periodic seminars are given by them on their area of research to our students and share their challenges, which motivate students to choose research as their career.
- Cash award has been provided for faculties involved in publications.
- MSME has taken the initiative to involve the students in research project.
- Research findings are being transferred to the research community through publications in peer-reviewed journals of reputed publishers with impact factor.
- Opportunities are provided to students to demonstrate their technical skills in "Tech-Fest", an exclusive students program organized every year to share, exhibit and transfer their knowledge towards research.
- Nearby rural post matric school students who are eager to know the current technological innovation are invited to the research labs every year for acquiring hands-on knowledge.
- Through Institute Innovation Council (IIC) idea generation, hackathons and several Entrepreneur development programs have been organized and a company 'Flutter Frog' is registered as anincubate and 17 of our students are doing internship

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual

Property Rights (IPR), Entrepreneurship and Skill Development during the year

76

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

11

File Description	Documents
URL to the research page on HEI website	https://www.sxcce.edu.in/research/research-supervisors/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

57

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

5

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

100

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

37

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

3.27

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

00

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	No File Uploaded
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The extension is an important activity that contributes to the enhancement of the status and public recognition of a profession and the welfare of society at large. The objectives of the extension activities are: To understand themselves in relation to the community in which they work. Identify the needs and problems of the community and involve them in problem-solving. Create opportunities for students and faculty to involve in community-based activities. Develop in the students a sense of social and civic responsibility. To understand the importance of civic engagement and community activism. To provide resources and opportunities, which the students need. The skills inculcated by the extension activities are Inclusive Excellence Integrity Community Building Social commitment Equity Social justice Self-Leadership by communicating with the community effectively. Development of ethical behavior by serving the community. Developing skills and creating social awareness among the students. Manage the best and live an effective life. Do services. The holistic developments are Orphanage visit -The home people felt very happy Yoga Day -Motivated to be physically and mentally fit. Swachh Bharat - Awareness to make India clean. COVID-19 Vaccination Camp- Initiation for 100% vaccination. Energy challenge - Creating awareness among people to save electrical energy.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/nss/activities/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

22

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	View File

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

11

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

257

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

2

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

20

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The facilities for the teaching-learning process at our institution surpass the minimum requirements set by regulatory bodies like AICTE and Anna University, fostering holistic student development for a technically empowered humane society. We have 66 classrooms, 46 laboratories, and 5 seminar/conference halls, all equipped with LCD projectors. Wi-Fi is accessible in every classroom, laboratory, tutorial hall, and seminar hall. A common computer center with high-speed internet serves academic and research needs, complemented by faculty use of Learning Management Systems (LMS) and online meeting platforms. The 24x7 Wi-Fi-enabled campus extends connectivity to both staff and students. All the departments are equipped with LMS facilities.

Our well-stocked library subscribes to online resources alongside traditional books and journals. The Controller of Examination (CoE) facility includes valuation halls, a conference hall, and necessary software and hardware for efficient examination

processes. Additional resources comprise computers, laptops, CCTV cameras, printers, copiers, LCD projectors, and a Lecture Capturing System (LCS). Specialized centers such as the Media Centre and Audio-Visual Centre enhance the overall learning experience. The latter features high-end equipment for video editing, including a computer with Adobe Premiere and Photoshop, and a Yamaha HS7 Active Studio Monitor for optimal audio performance. The institution's commitment to cutting-edge facilities reflects its dedication to a comprehensive and advanced educational environment.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/computing-facilities/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The college is committed to offering resourceful infrastructure for holistic growth of students. It provides adequate facilities for cultural activities, indoor and outdoor sports as well as other student and faculty support amenities.

- The institution has two well-equipped auditoriums. One is rock auditorium with a seating capacity of around 500 people. Other one is Bishop Leon Memorial Hall with a seating capacity of around 2000 people. This auditorium is spacious, well ventilated and has well-furnished halls. It also provides ample opportunity for the students to exhibit their talents in cultural activities.
- The institution has indoor stadium facilities for Table Tennis, Chess, Volleyball and Badminton.
- Available outdoor facilities in the institute are Badminton, Basket Ball, Football, Volleyball, Kabaddi and Cricket.
- Apart from the above, the institution has an 8000sq.m of size playground.
- The institute has gymnasium equipped with Treadmills, 4 Multistation Gym and Dumbbell sets etc.
- All the courts, sports and games equipment are periodically maintained under the supervision of the Physical Director. The institute encourages students to participate in regional, university, national and international level

events. Some of our students represented and won major events in different levels.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.sxcce.edu.in/sports/

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

71

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

24.84

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

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

- The Central Library plays a vital role in providing resources which enhance the knowledge of the faculty and students. Library is housed in an area of 18000 Sq.m with a seating capacity of 250 users.
- The Library is fully automated from 2003 using St. Xavier's

Library Automation software. Issue, return and tracking of books are realized through the bar code printed in the books and identity card of Staff and Students.

- Students and staff can search the book availability with the help of OPAC. Using OPAC, user can search the accessibility of books based on the title and author's name from anywhere in the college.
- The Library Advisory Committee monitors the smooth working of the library.
- E-Publications can be accessed at the library and anywhere in the campus using Wi-Fi.
- The institution is a member of National Digital Library (NDL) which provides federated searching tools to access the multiple data basis.
- DELNET tool is used for accessing books from various institutions across the country.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/library/

4.2.2 - Institution has access to the following: A. Any 4 or more of the above e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

16.72

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

128

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

- SXCCE has well established IT infrastructure and updates it periodically.
- The institution's computing facility is well established with the HP ML 150G2 Xeon 3.0HHz Backup server, IBM r X3550 M2/ 2.0Ghz QC Web Server, IBM 8840 3.0Ghz Database Server, IBM Blade server with 4 blades for file server, license server, NPTEL Video Library and Ubuntu Software catch purpose. In addition to this existing features Lenovo SR530 Xeon 2.1GHZ server is added for the purpose of college automation software.
- A Cloud Computing infrastructure with HP Proliant DL385 G7 server as cloud controller configured using open nebula is available for research purposes. Authenticated users can avail this facility anytime anywhere.
- Totally 1031 computers and 61 printers are available for computing purpose and all the computers are protected using Sophos-XG330 firewall. Campus network is connected with fibre optic network with 512 Mbps speed of 1:1 connectivity.
- Well featured College Automation Software is used with Student, Staff, Library, Placement, Exam Cell, Accounting modules that facilitates Student Messaging (SMS) System,

Staff Biometric attendance System and provide the storage of 500 MB for all staffs and students. It also provides the features to access more than 2TB of NPTEL & Anna University EDUSAT Video lectures.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/computing-facilities/

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2184	1032

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

A. All four of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/wp-content/uploads/2023/12/4.3.4.pdf
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

14.48

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

- An estate officer takes care of maintenance and up keeps of the infrastructure facilities in the college. The college has skilled manpower for executing maintenance activities across all departments.
- Separate budget provision is allocated for the maintenance of academic facilities like laboratories, classrooms, tutorial, conference, and seminar halls.
- In addition, the general facilities like sports & games rooms, restrooms, hostels, and landscapes are also maintained with a budget allocated for it.
- The electrical equipment such as UPS, Batteries and Generators are monitored every month. The network functioning and Internet, Intranet and Wi-Fi facility are supervised and maintained by the network administrator.
- Lab technician in each department periodically monitors and maintains the equipment of laboratories. Equipment within the warranty period, are serviced by the suppliers.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

931

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

46

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

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology **A. All of the above**

File Description	Documents
Link to Institutional website	https://www.sxcce.edu.in/wp-content/uploads/2023/11/5.1.3-programs_compressed.pdf
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

37

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

413

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

37

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

00

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

12

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

1. Student's activity is the back bone of the departments, they involve in departmental activities and students related activities.
2. Student council members and representatives take part actively in all academic and co-curricular activities.
3. The student representatives participate in monitoring students of their respective class and represent themselves in the class committee meeting held periodically.
4. Department associations, professional bodies such as IEEE Education Society, Ensav Club,
5. Robotics Club, IEEE Student Branch, IEEE-WIE, IET, IEI, ISHRAE, SAE, ACM, CSI, ACE, ELECTROS, SEE, BIGITZ, XACA, SHAX, REACH, FACEATP and MEGX and non-professional bodies such as NSS, NCC, YRC, Tamil Mantram, Eco club, Womens Cell, Konverz, Photography Club, Jyothis etc are available in the college whose activities are organized by the Students.
6. Each association has student secretary, joint secretary, treasurer and office bearers guided by faculty advisor.
7. Students actively involved in conducting symposiums, conferences and seminars for which most of the activities are restituted by them.
8. The above activities enhance their communication skills, management skills, leadership skills, team-work, time management, resource management skills and builds confidence in each student.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/professional-bodies/

5.3.3 - Number of sports and cultural events / competitions organised by the institution

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	View File

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

St. Xavier's Alumni Association was founded on 3rd April 2005. Later it was registered as a trust.

The deed of trust was executed on 21st July 2017 by Rev. Fr. Dr. M. Maria William, the present patron of the trust and the government registration number for the Alumni Association is BK4 49/2021.

Current Board of Directors:

Patron: Rev. Fr. Dr. M. Maria William

President: Mr. Aspren R

Working President: Dr. J. Maheswaran

Vice President: Mr. Deepan Fernandez

Secretary: Mr. S. Frank Stephen

Treasurer: Mr. R. Rajesh Anpu

The association has Regional Chapters at Nagercoil, Chennai, Bangalore, Kerala and Europe.

Every year, on 26th December alumni meet is arranged.

Around 150 alumni attended the Winter Alumni Meet 2022.

After the Graduation Day program, all the graduates meet in their respective departments and share their views about the college.

Contributions of Alumni to the College:

Alumni working in companies and other institutions are invited to share their experiences and provide placement guidance and software training.

Alumni feedback is collected to plan developmental activities.

Alumni provide financial aids for tuition fee and medical treatment of economically weaker students.

Alumni extend financial help in the name of sponsorship for conferences and alumni association.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/sxcce-alumni-association/

5.4.2 - Alumni's financial contribution during the year **E. <2 Lakhs**

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT**6.1 - Institutional Vision and Leadership**

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

To attain the long-term vision of empowering human society, the institution consistently transforms rural youth into top-tier professionals and technocrats committed to serving both local and global society with ethical integrity. This is achieved through a vibrant academic experience encompassing learning, research, innovation, and opportunities for personal and professional development, facilitated by an inspiring and high-caliber faculty within a quality and serene infrastructural environment.

The RC Diocese of Kuzhithurai governs and administers the institution, overseeing a comprehensive structure that includes

the Governing Council, Correspondent, Principal, Bursar, Academic and Administrative Body, Deans, HODs, Assistant HODs, PG Coordinators, Faculty Advisors of Co-curricular and Extracurricular Bodies, Office Superintendent, Estate Officer, and Hostel Wardens. The Governing Council reviews all policies and plans, ensuring alignment with the college's vision and mission before approval.

The Principal, Deans, HODs, and faculty members, while devising strategies for the execution of the policies and plans have the vision, mission, quality policy, and values as the basis. The evaluation system always considers the contribution to the achievement of the vision and mission as an important criterion for evaluating the output and execution of policies and plans overseen by the Principal and the Correspondent.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/vision-mission/

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The Correspondent briefs the Governing Council on the activities of the college every month and gives its comments and suggestions. Principal along with Deans executes the decisions taken and steers the academic, non-academic, student, staff, research, and quality improvement activities. The Dean of Academics supervises academic affairs, Board of Studies, Academic Council meetings, and Department Association Activities. The Dean of Student Affairs manages non-academic activities, including student discipline and non-professional cells. The Dean of Research promotes professional cells' activities, and research, facilitates MoUs, and motivates faculty for funded projects. The Dean of Futuristic Guidance aids students in career choices and oversees IIC, Start-ups, and Entrepreneurship. The Dean of Systems manages college automation software and the website. The IQAC coordinator oversees the institution's accreditation, coordinates quality improvement initiatives, and ensures susceptance. HODs along with AHODs and PG Coordinators coordinate the department and student activities in a well-planned manner. The curriculum subcommittee design and develop the detailed syllabus before submitting it to the PAQIC(Program Assessment and Quality Improvement Cell). PAQIC

assesses and evaluates the performance of each program in a department. Cell-in-charges arrange programs for the benefit of the students and staff members. Class committee chairpersons regularly conduct meetings with student representatives and analyze the performance of the class. Class coordinators coordinate the overall student activities.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/administration/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

With the aim of elevating the institution to new heights and realizing long-term objectives, annual strategic plans are formulated. These plans encompass initiatives for upgrading staff skills, enriching the curriculum, proposing more funded projects, establishing Centers of Excellence, enhancing infrastructure, promoting internships, fostering industry interactions and entrepreneurship, improving core company placements with competitive packages, and encouraging higher studies.

To further scale and achieve new heights in this highly competitive dynamic global scenario and to meet the expectations of the stakeholders, the college intended to renew the strategic plan for the next ten years (2023- 2033). Based on the detailed analysis and deliberations of the present scenario with the internal and external experts a new strategic plan has been proposed to focus on Eminent, Efficiency, and Excellence in Academic and Futuristic, Holistic development of students and Engaging with community developmental activities.

It has been drafted by considering nine focussed areas

1. Academic Excellence (Contemporary Curriculum, Impactful Pedagogy, Global Exposure)
2. Student Formation (Optimal Human Development)
3. Staff Development and Empowerment schemes
4. Research and Innovation (Intensive Research, Extensive

Collaborations) 5. Placement and Futuristic (Outstanding Placements) 6. Societal Responsibilities (Engaging Societal issues) 7. Infrastructure (World-class Infrastructure) 8. Finance Mobilization 9. Quality Assurance and Enhancement

These strategic plans undergo regular review during IQAC meetings, with dedicated action plans formulated to ensure effective implementation.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.sxcce.edu.in/wp-content/uploads/2023/11/Benchmarks-2022-2023-3.pdf
Upload any additional information	View File

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

The Bishop of RC diocese of Kuzhithurai is the chairman of the college. The governing body has 18 members. There are 9 subcommittees; they are Finance Committee, Human Resource Committee, Audit Committee, Placement and Public Relations Committee, Academic Committee, Legal Committee, Construction Committee, Purchase Committee and Transport Committee. The day-to-day activities of the college are taken care by the administrative setup consist of Correspondent, Principal, Bursar, Deans, IQAC Coordinator, HODs, Physical Education Director, Librarian, Placement Officer, Office Superintendent, Estate Officer, Personal Officer, Verification Officer, System Administrator, transport officer and teaching and non-teaching staff members. Governing Council constitution and function, categories of employees and their responsibilities and service rules and procedures are provided in the college administrative manual. Grievance Redressal Mechanism is in place to address the grievances of students, staff members, parents and alumni registered through online and offline.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.sxcce.edu.in/organogram/
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/wp-content/uploads/2019/07/SXCCE-Service-Rules.pdf

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

- Festival advance of Rs. 5,000/- is given to all staff with an option to repay it in 10 installments.
- Marriage leave is provided to all staff for 15 days.
- Maternity leave is provided for 45 days for all female staff.
- Medical leave is provided for 30 days to all staff who complete 5 years of service.
- Employee Provident Fund, HRA, and medical allowance are provided to all staff.
- Gratuity is provided to all staff at the time of retirement.
- Rs.5000/. The cash award is given to the faculty members for producing centum results.
- Rs.5000/. and Rs.3000/- Cash award is given to the faculty members for publishing papers in SCI and Scopus-indexed journals.
- Employee state Insurance and Earned leave facilities are

provided for non-teaching staff.

- Staff club is permitted to function in the college which undertakes financial help to the needy and organizes staff family tours in October.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/wp-content/uploads/2019/07/SXCCE-Service-Rules.pdf

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

3

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

5

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

118

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The college regularly conducts internal and external financial audits. The internal audit is done every month by the Audit Committee of the Governing Council. The external audit is done by Chartered Accountant every year. The audit reports are placed before the Governing Council through the Bursar after getting clarifications from the Finance Committee. The audit reports help Evaluate how the income and expenditures have been planned and spent, so as to fulfill the vision goals, objectives and plans of each sector of our college. Give suggestions with regard to the accounting system and stock register maintenance and so on, if possible simplifying them with current technologies. Evaluate whether the college gains outcomes which are worthy of its efforts and expenditure, and find the areas where loopholes exist. Give necessary plans for the future stability and financial security accounts, taxes, investments, etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/wp-content/uploads/2023/11/22-23-Audit.pdf

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

00

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

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

Institutional strategies for the mobilization of funds and the optimal utilization of resources

- To provide ethical and accurate information at a nominal cost is the policy of the institution towards consultancy.
- The institution promotes the signing of MoUs with industries related to product development, and process technology.
- The available expertise in the institution is publicized through the college website and newsletters
- The institution permits the use of infrastructure facilities for consultancy.
- On-duty leave is provided for faculty involved in consultancy.
- The honorarium is given to faculty members involved in consultancy.
- The institution gives weightage to consultancy work in assessing the faculty based on the Academic Performance Indicator.
- 40% of the revenue generated through consultancy is shared with the faculty members who are involved in consultancy.
- The remaining 60% is used by the institution for upgrading and calibrating the equipment.
- Through funded projects, Sponsorships, endowments, infrastructural charges from external examinations (Government or Companies).
- For events like International conferences, part of the expenditure is met by solicitation of donations and sponsorships.
- Conducting technical courses for candidates from outside our college.
- A minimal amount is collected through advertisements in the annual magazine.
- The institution generates a small income from research grants, international conferences, and consultancy services.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/wp-content/uploads/2023/01/Research_Policy_2.pdf

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The Internal Quality Assurance Cell (IQAC) is instrumental in implementing quality assurance strategies and processes.

1. IQAC is committed to the continuous enhancement of teaching-learning processes. It reviews operational structures and methodologies, as well as learning outcomes, regularly. The e-question bank has been developed following IQAC guidelines to improve the quality of question papers. Additionally, a two-tier verification system has been implemented for the e-course file. 2. All undergraduate classrooms are equipped with ICT-enabled facilities to facilitate ICT-based teaching and learning. 3. Each department has established a project cum Research lab to foster research activities. 4. Faculty members are encouraged to pursue a Ph.D., with 50% of them already holding Ph.D. qualifications. To foster innovation and leadership, and to understand student psychology, faculty members are encouraged to undertake courses and Faculty Development Programs (FDP) related to these topics, in addition to their domain areas. 5. Our college is a local chapter of Swayam-NPTEL, IITB Spoken tutorial FOSSEE, ICT academy, etc., to encourage self-learning among staff and students. 6. To nurture a holistic culture among students, both professional and non-professional activities are conducted every Saturday.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/iqac/chronicle/

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

- Regular review of academic activities and benchmark achievement status were analyzed in the academic administrative meeting and IQAC meeting.
- Dean-Academic will implement the action plan to improve the academic performance of students.
- To improve the no. of GATE participants and scorers, it was decided to conduct GATE awareness and coaching classes and, if needed arrange external trainers.
- To improve the quality of the question paper, training was given to the IQAC members to frame and evaluate the question bank based on Bloom's cognitive level.
- The teaching-learning process is regularly monitored by the dept. HODs with the formal feedback collected during the class committee meetings the written feedback collected by the IQAC and the corrective measures taken by the departments.
- Academic audits (course files, attendance and assessment records, laboratory audits, professional and nonprofessional cell activities) for the academic year 2022-2023 were conducted by the subject experts in all domains from the University College of Engineering, Nagercoil. The observations are shared with the respective Heads of the Department and faculty advisors of various cells.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/igac/chronicle/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.sxcce.edu.in/wp-content/uploads/2023/08/annual-report-2022-2023.pdf
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

- We provide equal opportunity to all individuals irrespective of gender, caste, colour, language, religion or other status.
- The women's cell and constitution club had organised Women's Day and women cell conducted enrichment program on Society: Issues and Empowerment, programs on Health awareness, legal awareness, rally to raise the voice of brutality against the women campaign and debate on mobile phone usage.
- Radio Club had organised an awareness program to impart the Knowledge of Technical development and gender discrimination.
- Sports council has conducted women's badminton through Anna university zonal level sports.
- Women cadets in NCC wing actively participate in NCC activities like piloting flag hoisting ceremony, trekking, firing and cleared NCC B & C certificates.
- Vigilant security guards stationed across the campus.
- No ragging complaints registered so far, is the evidence of success of our anti -ragging system.
- Separate hostels for men and women with dedicated warden
- 100 CCTV Surveillance throughout the campus and security arrangement.
- A counselling centre equipped with a counsellor provides counselling for students and staff.
- Guidance and mentoring given to students by mentor system.
- Presence of professional nurse - cater to the needs of students.

- A waiting hall for lunch and a waiting room for resting with basic amenities for women students are available.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://sxcce.edu.in/wp-content/uploads/2023/12/Gender-Sensitization-Action-Plan-2022-23-Additional-1.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy plant Wheeling to the Grid energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

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

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

We have installed a set of 3 dustbins labeled bio-degradable, non-biodegradable and recyclable in corridors of each floor. The primary focus is to reduce, reuse and recycle the waste. The solid wastes are segregated at source point and collected every day from bins and taken to the dumping yard. Then the bio-degradable wastes are sent to biogas plant, degradable wastes are used as manure and recyclable waste are taken up for reuse.

There are biogas plants in the Canteen. The bio-degradable wastes, food remaining from the canteen are the inputs for the biogas production. Canteen kitchens utilise this biogas for cooking.

Liquid waste generated within the campus is directed to sewage. We have 20 KLD capacity of STP in the boys' hostel. All sorts of liquid waste from the hostel are disposed to Sewage Treatment plant and the treated water is used for gardening purposes.

E-wastes are collected from the source point and sent to e-waste storage area. M/s.Viji Computers Chennai is the authorised vendor

collecting e-wastes from us.

Labs using chemicals and solvents follow the necessary precautions in the usage and disposal of hazardous chemicals. Used chemicals are diluted to about 0.005 N and disposed with sewage.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

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

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

A. Any 4 or all of the above

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

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

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance,

A. Any 4 or all of the above

reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Students belonging to different caste, religion, regions are studying here we respect their rights and beliefs. Gandhi Jayanthi, Teacher's Day, Women's Day, Engineers' Day, Republic Day, Independence Day, Yoga Day and Diwali, Ramadan, Christmas, Pongal, Onam are celebrated - sign of social, religious and regional harmony.

Fit India Freedom Run, Swachh Bharat, Awareness on Higher Studies Abroad, Joy of Giving in the neighbouring village are some examples of our cell activities in this context.

Majority of the departments, 6 out of 9 are headed by women faculties. Majority of our teaching staff are Female.

Among students - 37.78% are female, 38 students are from different States and among 2184 students 544 are Hindus and 113 Muslims.

Various Scholarships like BC/MBC, merit, SC/ST, disability student and Pragathi scholarship schemes were applied. Institutional scholarship of Rs.18,75,000 for 16 Catholic 41 Meritorious students was awarded.

Women in NCC: female cadets actively participate in firing, trekking, piloting flag hoisting ceremony. IEEE-(WIE) a students' wing encourages women students to actively participate in IEEE activities.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

We sensitize our students and staff to the constitutional obligations in terms of our values, rights, duties and responsibilities.

The institution formed a constitution club for creating awareness about the constitution of the nation to make students aware about the fundamental rights and duties, constitutional laws, to attain gender equality, democratic Indian society.

Also, the constitution club conducts several activities to empower the students on women's day, republic day.

Fit India Freedom Run by NCC conducts drawing competition to create awareness among students.

Blood donation Camps, Yoga day, traffic awareness program conducted by youth red cross club.

Our Code of Conduct for staff and students which governs the Code of conduct of everyone in the campus.

Professional ethics and human values - mandatory course recommended by the affiliating University - we teach this course to our 3rd and 4th year students which make them ethical human beings. And for 2nd year students Indian constitution law course is recommended which makes their knowledge very strong about the fundamental laws.

A course on Value Education for all disciplines across 8 semesters was introduced and taught which sensitize the students on moral values, inculcating the human and professional values amongst them.

In the Republic Day and Independence Day celebrations all staff and students are encouraged to participate actively and hoisting the national flag with dignity, highlighting the importance of

Indian Constitution and make them understand the importance of constitutional obligations.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

B. Any 3 of the above

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

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The institution celebrates national and international special occasions to understand the importance of the events among the students.

Youth Red cross, NSS, NCC and constitution club celebrates independence day to improve national integrity, and to know the salient features of independent India.

Youth Red cross, Outreach Programme Committee, NCC celebrates Republic day to know about the constitution of India.

To recall Tamil heritage and culture, Pongal festival has been celebrated by the Tamil mandram and NCC.

Jyothis Club celebrates Onam and conducts Athapoo competition to maintain the customs and traditions.

Women's cell and Radio club celebrates women's day to empower the women students and organizes rally, seminars to create awareness among them.

NCC day was celebrated to appreciate the deserved NCC cadets.

Teachers day was celebrated by the IEEE student branch to motivate the educators.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Best Practice I

The "Pay Forward" scheme in the context of the canteen at St. Xavier's Catholic College of Engineering in Nagercoil suggests a system where individuals can pay for an extra meal or item in advance to be provided to someone else in need. The "Pay Forward" scheme concept is often associated with acts of kindness and charity, encouraging a spirit of giving and helping others within the college community.

Best Practice II

The Poor Student Welfare Fund at St. Xavier's Catholic College of

Engineering in Nagercoil is likely a financial aid initiative designed to support students who are facing financial challenges and might struggle to meet their educational expenses.

File Description	Documents
Best practices in the Institutional website	https://www.sxcce.edu.in/wp-content/uploads/2023/12/Final-Best-Practices-Final.pdf
Any other relevant information	<u>Nil</u>

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

'Developing a technically empowered humane society' is our prime area that is distinctive to our priority and thrust. Every society expects a payback from the institutions which emerged from it. As a technical institute we take this as our prime motto to serve the humane society and empower people in our domain of expertise. Developing a technically empowered humane society could be evidenced in the every activity of our institute. We are committed to taking the benefits of technical education to the society so as to empower them. Our sister concern Hiltek Pvt. Ltd. teaches robotics and automation to school students of our district. We have adopted 4 villages to serve them under Swachh Bharat Scheme. Our Electrical Department conducted energy audit at nearby villages and organized Energy Saving camp to educate how to overcome energy shortfall. Our final year students are encouraged to do their final year projects in the areas beneficial to the society and are advised to concentrate on the products and technology which make common man's life easier. Every technology is to serve the society for its betterment. We are intuitively committed to bridge the gap between technology and its reach to the society.

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

Anna University R-2017 & R-2021 and the first autonomous SXCCE Regulation 2022 are followed in the academic year 2022-2023. All the three regulations are based on the choice-based credit system. SXCCE R-2022 includes theory courses, practical courses and laboratory-integrated theory courses that shall be categorized as follows: Humanities, Social Sciences and Management Courses (HSMC), Basic Sciences Courses (BSC), Engineering Sciences Courses (ESC), Professional Core Courses (PCC), Professional Elective Courses (PEC), Open Elective Courses (OEC) include interdisciplinary, Employability Enhancement Courses (EEC), Audit courses (AC), Additional Mandatory Courses (MC) include higher order thinking, Value-based education to meet the local, national and global needs. In the academic year 2022-2023, 15% of syllabus revision was carried out in SXCCE R-2022 based on the current trends, job opportunities, industry and society needs.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://www.sxcce.edu.in/regulations/

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

17

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

91

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	View File

1.2 - Academic Flexibility**1.2.1 - Number of new courses introduced across all programmes offered during the year**

27

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

17

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The mandatory course GE8291-Environmental Science and Engineering is included for all UG Engineering Students. Our UG students opted for open elective courses like OCE551- Air Pollution and Control Engineering and OCY751- Waste Water Treatment to get an awareness of an eco-friendly environment.

UG Engineering students were chosen an elective course GE8076-Professional Ethics in Engineering. MC5006-Professional Ethics and MC5035- Professional Ethics in IT elective courses were chosen by MCA students to create awareness of Engineering Ethics and Human Values, to instill Moral Values, Social Values, and Loyalty, and to appreciate the rights of others.

The institution provides value education courses VE101-My Life and My Place in the Universe, VE201-My Life and the Other, VE301 My Life is My Responsibility, VE401-Understanding My Education and Developing Maturity, VE501-Understanding the Society and Becoming a Leader, VE601-Practicing Leadership for Social Change, VE701-Balancing Professional, Personal, Family for Fullness of Life, VE801-Innovative Social Commitment, Spirituality and Social Networking for all UG engineering students. Women's cell promotes gender equality among students through seminars, and workshops and also deals with safety and security issues for female students. The grievance cell deals with the complaints related to any genderbased issues of women in the college if any.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

23

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

1377

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1077

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.sxcce.edu.in/wp-content/uploads/2023/12/Curriculum-Feedback.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.sxcce.edu.in/wp-content/uploads/2023/11/Feedback-2022-2023.pdf
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

705

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

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

137

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The advanced learners and slow learners are identified through the performance in internal tests as well as the past history of arrears. The performances of the advanced learners are improved by giving motivation through mentors and course in-charges. Regular Placement training programs are conducted to improve their skills on aptitude tests and Group discussion to get placement in companies. Advanced learners whose CGPA is greater than 7.5 upto 5th semester can take additional courses as Honors and minors. Advanced learners are motivated by giving prizes and awards.

The identified slow learners are given more attention by the course in-charges. Mentors meet and motivate the students to improve their academic performance. Meeting with parents of students is conducted once in every semester to identify the difficulties faced by their wards and to motivate them to improve their results. The performance of the slow learners is improved by giving more attention in the classroom. Coaching classes are conducted for the slow learners to guide them to improve the results. Improvement tests are conducted for the slow learners to improve their internal marks.

Best Student Awards are given to the final year students based on the performance of the student in the curricular and co-curricular activities. Bridge courses are conducted to cater diversity of students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/humanities-and-sciences/shax/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
10/08/2022	2184	161

File Description	Documents
Upload any additional information	View File

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:

To improve the teaching and learning process various pedagogical initiatives are taken by the faculty members. Assignments are given to the students to promote self-learning. Students are motivated for doing effective project work by conducting project orientation programs and project competitions. Various competitions are conducted for the students and prizes are given for motivating them. Both individual and team events are conducted for improve the participative learning. To keep students engaged in the classroom, faculty takes efforts for the conduction of guest lectures, workshops, seminars and student presentations. The students are encouraged to take up internship programs during their semester break. They also help the students by interacting with the industry experts, to get recommendation letters and other necessary support through the HOD and the Principal. Training in industries, industrial visits, survey camps, mini projects etc help to improve the learning of students. Many enrichment programme like Skill development and career opportunities are conducted for the students to improve their skills.

File Description	Documents
Upload any additional information	View File
Link for additional Information	https://www.sxcce.edu.in/electronics-and-communication-engineering/guest-lectures/

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

All the classrooms are equipped with LCD projectors for Power Point presentation, Animation, and Video presentations. Internet facility is available for students and faculty members. WiFi facility is available throughout the campus. Faculty members use Learning Management Systems like Google Classroom for teaching learning and assessment. Lecture videos are uploaded in YouTube and circulated to students. Course plan, course materials, question banks and other learning materials are shared with students through college automation software and LMSs.

Faculty members are taking advantage of sources like National Program on Technology Enhanced Learning (NPTEL), internet sources for effective teaching. To improve the teaching ability, the faculty is facilitated to access books and e-resources. Library has online access to the journals like IEEE, IET, ELSEVIER, SPRINGER with High-speed Wi-Fi Internet facility. Faculty members are motivated to attend Faculty Development Programmes to improve their skills. Teaching Development Cell is constituted to improve teaching pedagogy for effective teaching.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://classroom.google.com/w/NTIzOTk2OTk4NDc3/t/all
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

130

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Every semester academic calendar is prepared by the Dean of Academics. Commencement of classes, internal test schedule, model practical exam, model theory exam and last working day are mentioned in the academic calendar. Commencement of end-semester practical examinations and theory examinations are also mentioned in the academic calendar. Approved academic schedule is posted in the website and official groups. Based on the academic schedule course instructor prepare teaching plan for the course delivery. Internal assessment test time table and duty allocation are prepared by the exam cell. Project reviews are conducted based on the academic calendar. Course file submission, assessment record submission, mentor reports submission and question bank submission are based on the academic schedule. End semester exam time table is prepared by the Controller of Examination.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

161

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

80

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

12

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

24

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

13

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

The Controller of Examination (CoE) has implemented Examination Reforms and procedures for both end-semester and continuous assessment tests within the Examination Management System. The detailed process for conducting examinations is outlined in the examination manual. To streamline and automate exam-related tasks, the institution employs an in-house college automation system for continuous assessment and distinct software for end-semester examinations. This automation significantly reduces manual work, enhancing the efficiency of storage, manipulation, and retrieval of the entire examination process.

Key features of the continuous assessment process integrated in the

- Question Bank insertion aligned with CO and cognitive levels
- Question Bank verification and correction process
- Auto selection of Questions for the internal assessment examination
- Options for Mark entry, CO attainment calculation of each assessment tools and report generation in prescribed format
- Indirect assessment - getting course exit survey through the automation software
- Separate software with specific server for automating the end- semester examination
- Integrating end-semester examination and overall CO, PO, PSO attainment calculation and reporting mechanism
- Exam schedule, Seating and other notifications are communicated among students and faculty. Sending student performance via SMS to their parents

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/wp-content/uploads/2023/03/SXCCE-Examination-Manual.pdf

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

- Course-level and programme-level outcomes are defined for all the programmes.
- The Programme Educational Objectives, Programme Outcomes and Program Specific Outcomes are published on the department page of the college website, displayed in the corridors of the departments, and available in the course file.
- Course files and Lab manuals are prepared by the faculty members.
- Course files and Lab manuals contain PEO, PO, PSO and Course Outcomes.
- Every faculty member, on the first day of their class in a semester, discusses Vision, Mission, PEO, PO, PSO, CO and outcome mappings with the students.
- Laboratory course outcomes are displayed in the laboratories.
- Course outcomes covered in an internal examination are printed on the question paper.
- UG Programme Outcomes are printed in the 2022 wall calendar which is distributed to students, staff members and other stakeholders.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://www.sxcce.edu.in/wp-content/uploads/2023/12/Course-Outcome-2022-2023.pdf

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the

institution

- CO, PO and PSO Attainment targets are set before the commencement of each academic year.
- Assessment tools to assess the attainment of course outcomes are categorized as direct methods and indirect methods.
- Direct methods used to assess CO attainment are; students' performance in unit tests, and assignments (experiential learning, project based learning, case study, Group Discussion, Quiz)
- The indirect method used to assess CO attainment is a course exit survey.
- Course outcomes are calculated by giving 80% weightage to the direct assessment and 20% weightage to the indirect assessment. Direct assessment are calculated by taking 60% end semester examination and 40% continuous assessment methods for theory courses
- Programme outcomes and Programme specific outcomes are calculated from CO attainment as the direct assessment with the help of CO-PO mapping and programme exit survey as the indirect assessment.
- The attained CO, PO and PSOs are compared with the set attainment targets and appropriate actions are planned to improve the attainment.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

489

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://www.sxcce.edu.in/wp-content/uploads/2023/12/CoE-First-Annual-Report-2022-2023.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

<https://www.sxcce.edu.in/wp-content/uploads/2023/11/Feedback-2022-2023.pdf>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

St. Xavier's Catholic College of Engineering (SXCCE) is recognized as one of the renowned institutions with rich research ambience, located in the southern part of our country. The institution intends to emphasize on maintaining high standards in all the research activities by students, research scholars and faculty by providing certain criteria. The institution encourages the faculty and others conducting quality research through analysis and synthesis of current research technologies and develop new or improved processes and products for the benefit of the society. The policy developed by Centre For Research and Development (CFRD) acts as a framework for the development and implementation of quality research activities and good practices in the institution. The Research policies are developed with an objective to improve the Research performance of the students as well as overall development activities in the college, and these policies are in accordance to the Institute's Vision to produce optimal human, towards developing a technically-empowered humane society.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.sxcce.edu.in/wp-content/uploads/2023/01/Research Policy 2.pdf
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

00

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	No File Uploaded
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

1

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	View File

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

38.07

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

1

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/electronics-and-communication-engineering/research/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

34

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

3

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	Nil
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

- More than 12 scholars have registered for their Ph.D during the 2022-2023 academic year. Periodic seminars are given by them on their area of research to our students and share their challenges, which motivate students to choose research as their career.
- Cash award has been provided for faculties involved in publications.
- MSME has taken the initiative to involve the students in research project.
- Research findings are being transferred to the research community through publications in peer-reviewed journals of reputed publishers with impact factor.
- Opportunities are provided to students to demonstrate their technical skills in "Tech-Fest", an exclusive students program organized every year to share, exhibit and transfer their knowledge towards research.
- Nearby rural post matric school students who are eager to know the current technological innovation are invited to the research labs every year for acquiring hands-on

knowledge.

- Through Institute Innovation Council (IIC) idea generation, hackathons and several Entrepreneur development programs have been organized and a company 'Flutter Frog' is registered as an incubate and 17 of our students are doing internship

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

76

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

11

File Description	Documents
URL to the research page on HEI website	https://www.sxcce.edu.in/research/research-supervisors/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

57

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

5

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

100	
File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File
3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University	
3.4.6.1 - h-index of Scopus during the year	
37	
File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File
3.5 - Consultancy	
3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)	
3.27	
File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded
3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year	
00	

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	No File Uploaded
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The extension is an important activity that contributes to the enhancement of the status and public recognition of a profession and the welfare of society at large. The objectives of the extension activities are: To understand themselves in relation to the community in which they work. Identify the needs and problems of the community and involve them in problem-solving. Create opportunities for students and faculty to involve in community-based activities. Develop in the students a sense of social and civic responsibility. To understand the importance of civic engagement and community activism. To provide resources and opportunities, which the students need. The skills inculcated by the extension activities are Inclusive Excellence Integrity Community Building Social commitment Equity Social justice Self-Leadership by communicating with the community effectively. Development of ethical behavior by serving the community. Developing skills and creating social awareness among the students. Manage the best and live an effective life. Do services. The holistic developments are Orphanage visit -The home people felt very happy Yoga Day -Motivated to be physically and mentally fit. Swachh Bharat - Awareness to make India clean. COVID-19 Vaccination Camp- Initiation for 100% vaccination. Energy challenge - Creating awareness among people to save electrical energy.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/nss/activities/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

22

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	View File

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

11

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

257

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/

student exchange/ internship/ on-the-job training/ project work

2

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

20

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES**4.1 - Physical Facilities**

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

The facilities for the teaching-learning process at our institution surpass the minimum requirements set by regulatory bodies like AICTE and Anna University, fostering holistic student development for a technically empowered humane society. We have 66 classrooms, 46 laboratories, and 5 seminar/conference halls, all equipped with LCD projectors. Wi-Fi is accessible in every classroom, laboratory, tutorial hall, and seminar hall. A common computer center with high-speed internet serves academic and research needs, complemented by faculty use of Learning Management Systems (LMS) and online meeting platforms. The 24x7 Wi-Fi-enabled campus extends connectivity to both staff and students. All the departments are equipped with LMS facilities.

Our well-stocked library subscribes to online resources

alongside traditional books and journals. The Controller of Examination (CoE) facility includes valuation halls, a conference hall, and necessary software and hardware for efficient examination processes. Additional resources comprise computers, laptops, CCTV cameras, printers, copiers, LCD projectors, and a Lecture Capturing System (LCS). Specialized centers such as the Media Centre and Audio-Visual Centre enhance the overall learning experience. The latter features high-end equipment for video editing, including a computer with Adobe Premiere and Photoshop, and a Yamaha HS7 Active Studio Monitor for optimal audio performance. The institution's commitment to cutting-edge facilities reflects its dedication to a comprehensive and advanced educational environment.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/computing-facilities/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The college is committed to offering resourceful infrastructure for holistic growth of students. It provides adequate facilities for cultural activities, indoor and outdoor sports as well as other student and faculty support amenities.

- The institution has two well-equipped auditoriums. One is rock auditorium with a seating capacity of around 500 people. Other one is Bishop Leon Memorial Hall with a seating capacity of around 2000 people. This auditorium is spacious, well ventilated and has well-furnished halls. It also provides ample opportunity for the students to exhibit their talents in cultural activities.
- The institution has indoor stadium facilities for Table Tennis, Chess, Volleyball and Badminton.
- Available outdoor facilities in the institute are Badminton, Basket Ball, Football, Volleyball, Kabaddi and Cricket.
- Apart from the above, the institution has an 8000sq.m of size playground.
- The institute has gymnasium equipped with Treadmills, 4 Multistation Gym and Dumbbell sets etc.

- All the courts, sports and games equipment are periodically maintained under the supervision of the Physical Director. The institute encourages students to participate in regional, university, national and international level events. Some of our students represented and won major events in different levels.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.sxcce.edu.in/sports/

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

71

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

24.84

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

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

- The Central Library plays a vital role in providing

resources which enhance the knowledge of the faculty and students. Library is housed in an area of 18000 Sq.m with a seating capacity of 250 users.

- The Library is fully automated from 2003 using St. Xavier's Library Automation software. Issue, return and tracking of books are realized through the bar code printed in the books and identity card of Staff and Students.
- Students and staff can search the book availability with the help of OPAC. Using OPAC, user can search the accessibility of books based on the title and author's name from anywhere in the college.
- The Library Advisory Committee monitors the smooth working of the library.
- E-Publications can be accessed at the library and anywhere in the campus using Wi-Fi.
- The institution is a member of National Digital Library (NDL) which provides federated searching tools to access the multiple data basis.
- DELNET tool is used for accessing books from various institutions across the country.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/library/

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

16.72

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

128

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

- SXCCE has well established IT infrastructure and updates it periodically.
- The institution's computing facility is well established with the HP ML 150G2 Xeon 3.0HHz Backup server, IBM r X3550 M2/ 2.0Ghz QC Web Server, IBM 8840 3.0Ghz Database Server, IBM Blade server with 4 blades for file server, license server, NPTEL Video Library and Ubuntu Software catch purpose. In addition to this existing features Lenovo SR530 Xeon 2.1GHZ server is added for the purpose of college automation software.
- A Cloud Computing infrastructure with HP Proliant DL385 G7 server as cloud controller configured using open nebula is available for research purposes. Authenticated users can avail this facility anytime anywhere.
- Totally 1031 computers and 61 printers are available for computing purpose and all the computers are protected using Sophos-XG330 firewall. Campus network is connected with fibre optic network with 512 Mbps speed of 1:1 connectivity.

- Well featured College Automation Software is used with Student, Staff, Library, Placement, Exam Cell, Accounting modules that facilitates Student Messaging (SMS) System, Staff Biometric attendance System and provide the storage of 500 MB for all staffs and students. It also provides the features to access more than 2TB of NPTEL & Anna University EDUSAT Video lectures.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/computing-facilities/

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2184	1032

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 750 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

A. All four of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/wp-content/uploads/2023/12/4.3.4.pdf
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

14.48

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

- An estate officer takes care of maintenance and up keeps of the infrastructure facilities in the college. The college has skilled manpower for executing maintenance activities across all departments.
- Separate budget provision is allocated for the maintenance of academic facilities like laboratories, classrooms, tutorial, conference, and seminar halls.
- In addition, the general facilities like sports & games rooms, restrooms, hostels, and landscapes are also maintained with a budget allocated for it.
- The electrical equipment such as UPS, Batteries and Generators are monitored every month. The network functioning and Internet, Intranet and Wi-Fi facility are supervised and maintained by the network administrator.
- Lab technician in each department periodically monitors and maintains the equipment of laboratories. Equipment within the warranty period, are serviced by the suppliers.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

931

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

46

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

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://www.sxcce.edu.in/wp-content/uploads/2023/11/5.1.3-programs_compressed.pdf
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

37

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression	
5.2.1 - Number of outgoing students who got placement during the year	
413	
File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File
5.2.2 - Number of outgoing students progressing to higher education	
37	
File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File
5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year	
5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year	
00	
File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File
5.3 - Student Participation and Activities	
5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year	
12	

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

1. Student's activity is the back bone of the departments, they involve in departmental activities and students related activities.
2. Student council members and representatives take part actively in all academic and co-curricular activities.
3. The student representatives participate in monitoring students of their respective class and represent themselves in the class committee meeting held periodically.
4. Department associations, professional bodies such as IEEE Education Society, Ensav Club,
5. Robotics Club, IEEE Student Branch, IEEE-WIE, IET, IEI, ISHRAE, SAE, ACM, CSI, ACE, ELECTROS, SEE, BIGITZ, XACA, SHAX, REACH, FACEATP and MEGX and non-professional bodies such as NSS, NCC, YRC, Tamil Mantram, Eco club, Womens Cell, Konverz, Photography Club, Jyothis etc are available in the college whose activities are organized by the Students.
6. Each association has student secretary, joint secretary, treasurer and office bearers guided by faculty advisor.
7. Students actively involved in conducting symposiums, conferences and seminars for which most of the activities are restituted by them.
8. The above activities enhance their communication skills, management skills, leadership skills, team-work, time management, resource management skills and builds confidence in each student.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/professional-bodies/

5.3.3 - Number of sports and cultural events / competitions organised by the institution

8

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	View File

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

St. Xavier's Alumni Association was founded on 3rd April 2005. Later it was registered as a trust.

The deed of trust was executed on 21st July 2017 by Rev. Fr. Dr. M. Maria William, the present patron of the trust and the government registration number for the Alumni Association is BK4 49/2021.

Current Board of Directors:

Patron: Rev. Fr. Dr. M. Maria William

President: Mr. Aspren R

Working President: Dr. J. Maheswaran

Vice President: Mr. Deepan Fernandez

Secretary: Mr. S. Frank Stephen

Treasurer: Mr. R. Rajesh Anpu

The association has Regional Chapters at Nagercoil, Chennai, Bangalore, Kerala and Europe.

Every year, on 26th December alumni meet is arranged.

Around 150 alumni attended the Winter Alumni Meet 2022.

After the Graduation Day program, all the graduates meet in

their respective departments and share their views about the college.

Contributions of Alumni to the College:

Alumni working in companies and other institutions are invited to share their experiences and provide placement guidance and software training.

Alumni feedback is collected to plan developmental activities.

Alumni provide financial aids for tuition fee and medical treatment of economically weaker students.

Alumni extend financial help in the name of sponsorship for conferences and alumni association.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/sxcce-alumni-association/

5.4.2 - Alumni's financial contribution during the year	E. <2 Lakhs
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File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

To attain the long-term vision of empowering human society, the institution consistently transforms rural youth into top-tier professionals and technocrats committed to serving both local and global society with ethical integrity. This is achieved through a vibrant academic experience encompassing learning, research, innovation, and opportunities for personal and professional development, facilitated by an inspiring and high-caliber faculty within a quality and serene infrastructural

environment.

The RC Diocese of Kuzhithurai governs and administers the institution, overseeing a comprehensive structure that includes the Governing Council, Correspondent, Principal, Bursar, Academic and Administrative Body, Deans, HODs, Assistant HODs, PG Coordinators, Faculty Advisors of Co-curricular and Extracurricular Bodies, Office Superintendent, Estate Officer, and Hostel Wardens. The Governing Council reviews all policies and plans, ensuring alignment with the college's vision and mission before approval.

The Principal, Deans, HODs, and faculty members, while devising strategies for the execution of the policies and plans have the vision, mission, quality policy, and values as the basis. The evaluation system always considers the contribution to the achievement of the vision and mission as an important criterion for evaluating the output and execution of policies and plans overseen by the Principal and the Correspondent.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/vision-mission/

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The Correspondent briefs the Governing Council on the activities of the college every month and gives its comments and suggestions. Principal along with Deans executes the decisions taken and steers the academic, non-academic, student, staff, research, and quality improvement activities. The Dean of Academics supervises academic affairs, Board of Studies, Academic Council meetings, and Department Association Activities. The Dean of Student Affairs manages non-academic activities, including student discipline and non-professional cells. The Dean of Research promotes professional cells' activities, and research, facilitates MoUs, and motivates faculty for funded projects. The Dean of Futuristic Guidance aids students in career choices and oversees IIC, Start-ups, and Entrepreneurship. The Dean of Systems manages college automation software and the website. The IQAC coordinator oversees the institution's accreditation, coordinates quality

improvement initiatives, and ensures susceptance. HODs along with AHODs and PG Coordinators coordinate the department and student activities in a well-planned manner. The curriculum subcommittee design and develop the detailed syllabus before submitting it tothe PAQIC(Program Assessment and Quality Improvement Cell). PAQIC assesses and evaluates the performance of each program in a department. Cell-in-charges arrange programs for the benefit of the students and staff members. Class committee chairpersons regularly conduct meetings with student representatives and analyze the performance of the class. Class coordinators coordinate the overall student activities.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/administration/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

With the aim of elevating the institution to new heights and realizing long-term objectives, annual strategic plans are formulated. These plans encompass initiatives for upgrading staff skills, enriching the curriculum, proposing more funded projects, establishing Centers of Excellence, enhancing infrastructure, promoting internships, fostering industry interactions and entrepreneurship, improving core company placements with competitive packages, and encouraging higher studies.

To further scale and achieve new heights in this highly competitive dynamic global scenario and to meet the expectations of the stakeholders, the college intended to renew the strategic plan for the next ten years (2023- 2033). Based on the detailed analysis and deliberations of the present scenario with the internal and external experts a new strategic plan has been proposed to focus on Eminent, Efficiency, and Excellence in Academic and Futuristic, Holistic development of

students and Engaging with community developmental activities.

It has been drafted by considering nine focussed areas

1. Academic Excellence (Contemporary Curriculum, Impactful Pedagogy, Global Exposure) 2. Student Formation (Optimal Human Development) 3. Staff Development and Empowerment schemes 4. Research and Innovation (Intensive Research, Extensive Collaborations) 5. Placement and Futuristic (Outstanding Placements) 6. Societal Responsibilities (Engaging Societal issues) 7. Infrastructure (World-class Infrastructure) 8. Finance Mobilization 9. Quality Assurance and Enhancement

These strategic plans undergo regular review during IQAC meetings, with dedicated action plans formulated to ensure effective implementation.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.sxcce.edu.in/wp-content/uploads/2023/11/Benchmarks-2022-2023-3.pdf
Upload any additional information	View File

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

The Bishop of RC diocese of Kuzhithurai is the chairman of the college. The governing body has 18 members. There are 9 subcommittees; they are Finance Committee, Human Resource Committee, Audit Committee, Placement and Public Relations Committee, Academic Committee, Legal Committee, Construction Committee, Purchase Committee and Transport Committee. The day-to-day activities of the college are taken care by the administrative setup consist of Correspondent, Principal, Bursar, Deans, IQAC Coordinator, HODs, Physical Education Director, Librarian, Placement Officer, Office Superintendent, Estate Officer, Personal Officer, Verification Officer, System Administrator, transport officer and teaching and non-teaching staff members. Governing Council constitution and function, categories of employees and their responsibilities and service rules and procedures are provided in the college administrative manual. Grievance Redressal Mechanism is in place to address

the grievances of students, staff members, parents and alumni registered through online and offline.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.sxcce.edu.in/organogram/
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/wp-content/uploads/2019/07/SXCCE-Service-Rules.pdf

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

- Festival advance of Rs. 5,000/- is given to all staff with an option to repay it in 10 installments.
- Marriage leave is provided to all staff for 15 days.
- Maternity leave is provided for 45 days for all female staff.
- Medical leave is provided for 30 days to all staff who complete 5 years of service.
- Employee Provident Fund, HRA, and medical allowance are provided to all staff.
- Gratuity is provided to all staff at the time of retirement.
- Rs.5000/. The cash award is given to the faculty members

for producing centum results.

- Rs.5000/. and Rs.3000/- Cash award is given to the faculty members for publishing papers in SCI and Scopus-indexed journals.
- Employee state Insurance and Earned leave facilities are provided for non-teaching staff.
- Staff club is permitted to function in the college which undertakes financial help to the needy and organizes staff family tours in October.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/wp-content/uploads/2019/07/SXCCE-Service-Rules.pdf

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

3

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

5

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

118

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The college regularly conducts internal and external financial audits. The internal audit is done every month by the Audit Committee of the Governing Council. The external audit is done by Chartered Accountant every year. The audit reports are placed before the Governing Council through the Bursar after getting clarifications from the Finance Committee. The audit reports help Evaluate how the income and expenditures have been planned and spent, so as to fulfill the vision goals, objectives and plans of each sector of our college. Give suggestions with regard to the accounting system and stock register maintenance and so on, if possible simplifying them with current technologies. Evaluate whether the college gains outcomes which are worthy of its efforts and expenditure, and find the areas where loopholes exist. Give necessary plans for the future stability and financial security accounts, taxes, investments, etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/wp-content/uploads/2023/11/22-23-Audit.pdf

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

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File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

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

Institutional strategies for the mobilization of funds and the optimal utilization of resources

- To provide ethical and accurate information at a nominal cost is the policy of the institution towards consultancy.
- The institution promotes the signing of MoUs with industries related to product development, and process technology.
- The available expertise in the institution is publicized through the college website and newsletters
- The institution permits the use of infrastructure facilities for consultancy.
- On-duty leave is provided for faculty involved in consultancy.
- The honorarium is given to faculty members involved in consultancy.
- The institution gives weightage to consultancy work in assessing the faculty based on the Academic Performance Indicator.
- 40% of the revenue generated through consultancy is shared with the faculty members who are involved in consultancy.
- The remaining 60% is used by the institution for upgrading and calibrating the equipment.
- Through funded projects, Sponsorships, endowments, infrastructural charges from external examinations (Government or Companies).
- For events like International conferences, part of the expenditure is met by solicitation of donations and sponsorships.
- Conducting technical courses for candidates from outside our college.

- A minimal amount is collected through advertisements in the annual magazine.
- The institution generates a small income from research grants, international conferences, and consultancy services.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.sxcce.edu.in/wp-content/uploads/2023/01/Research Policy 2.pdf

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The Internal Quality Assurance Cell (IQAC) is instrumental in implementing quality assurance strategies and processes.

1. IQAC is committed to the continuous enhancement of teaching-learning processes. It reviews operational structures and methodologies, as well as learning outcomes, regularly. The e-question bank has been developed following IQAC guidelines to improve the quality of question papers. Additionally, a two-tier verification system has been implemented for the e-course file. 2. All undergraduate classrooms are equipped with ICT-enabled facilities to facilitate ICT-based teaching and learning. 3. Each department has established a project cum Research lab to foster research activities. 4. Faculty members are encouraged to pursue a Ph.D., with 50% of them already holding Ph.D. qualifications. To foster innovation and leadership, and to understand student psychology, faculty members are encouraged to undertake courses and Faculty Development Programs (FDP) related to these topics, in addition to their domain areas. 5. Our college is a local chapter of Swayam-NPTEL, IITB Spoken tutorial FOSSEE, ICT academy, etc., to encourage self-learning among staff and students. 6. To nurture a holistic culture among students, both professional and non-professional activities are conducted every Saturday.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/iqac/chronicle/

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

- Regular review of academic activities and benchmark achievement status were analyzed in the academic administrative meeting and IQAC meeting.
- Dean-Academic will implement the action plan to improve the academic performance of students.
- To improve the no. of GATE participants and scorers, it was decided to conduct GATE awareness and coaching classes and, if needed arrange external trainers.
- To improve the quality of the question paper, training was given to the IQAC members to frame and evaluate the question bank based on Bloom's cognitive level.
- The teaching-learning process is regularly monitored by the dept. HODs with the formal feedback collected during the class committee meetings the written feedback collected by the IQAC and the corrective measures taken by the departments.
- Academic audits (course files, attendance and assessment records, laboratory audits, professional and nonprofessional cell activities) for the academic year 2022-2023 were conducted by the subject experts in all domains from the University College of Engineering, Nagercoil. The observations are shared with the respective Heads of the Department and faculty advisors of various cells.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.sxcce.edu.in/iqac/chronicle/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution

A. Any 4 or all of the above

Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.sxcce.edu.in/wp-content/uploads/2023/08/annual-report-2022-2023.pdf
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

- We provide equal opportunity to all individuals irrespective of gender, caste, colour, language, religion or other status.
- The women's cell and constitution club had organised Women's Day and women cell conducted enrichment program on Society: Issues and Empowerment, programs on Health awareness, legal awareness, rally to raise the voice of brutality against the women campaign and debate on mobile phone usage.
- Radio Club had organised an awareness program to impart the Knowledge of Technical development and gender discrimination.
- Sports council has conducted women's badminton through Anna university zonal level sports.
- Women cadets in NCC wing actively participate in NCC activities like piloting flag hoisting ceremony, trekking, firing and cleared NCC B & C certificates.
- Vigilant security guards stationed across the campus.
- No ragging complaints registered so far, is the evidence of success of our anti -ragging system.
- Separate hostels for men and women with dedicated warden

- 100 CCTV Surveillance throughout the campus and security arrangement.
- A counselling centre equipped with a counsellor provides counselling for students and staff.
- Guidance and mentoring given to students by mentor system.
- Presence of professional nurse - cater to the needs of students.
- A waiting hall for lunch and a waiting room for resting with basic amenities for women students are available.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://sxcce.edu.in/wp-content/uploads/2023/12/Gender-Sensitization-Action-Plan-2022-23-Additional-1.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

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

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

We have installed a set of 3 dustbins labeled bio-degradable, non-biodegradable and recyclable in corridors of each floor. The primary focus is to reduce, reuse and recycle the waste. The solid wastes are segregated at source point and collected every day from bins and taken to the dumping yard. Then the bio-degradable wastes are sent to biogas plant, degradable wastes are used as manure and recyclable waste are taken up for reuse.

There are biogas plants in the Canteen. The bio-degradable wastes, food remaining from the canteen are the inputs for the biogas production. Canteen kitchens utilise this biogas for

cooking.

Liquid waste generated within the campus is directed to sewage. We have 20 KLD capacity of STP in the boys' hostel. All sorts of liquid waste from the hostel are disposed to Sewage Treatment plant and the treated water is used for gardening purposes.

E-wastes are collected from the source point and sent to e-waste storage area. M/s.Viji Computers Chennai is the authorised vendor collecting e-wastes from us.

Labs using chemicals and solvents follow the necessary precautions in the usage and disposal of hazardous chemicals. Used chemicals are diluted to about 0.005 N and disposed with sewage.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

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

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

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

A. Any 4 or all of the above

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

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms

A. Any 4 or all of the above

**and centres Disabled-friendly washrooms
Signage including tactile path lights,
display boards and signposts Assistive
technology and facilities for persons with
disabilities: accessible website, screen-
reading software, mechanized equipment,
etc. Provision for enquiry and information:
Human assistance, reader, scribe, soft
copies of reading materials, screen reading,
etc.**

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Students belonging to different caste, religion, regions are studying here we respect their rights and beliefs. Gandhi Jayanthi, Teacher's Day, Women's Day, Engineers' Day, Republic Day, Independence Day, Yoga Day and Diwali, Ramadan, Christmas, Pongal, Onam are celebrated - sign of social, religious and regional harmony.

Fit India Freedom Run, Swachh Bharat, Awareness on Higher Studies Abroad, Joy of Giving in the neighbouring village are some examples of our cell activities in this context.

Majority of the departments, 6 out of 9 are headed by women faculties. Majority of our teaching staff are Female.

Among students - 37.78% are female, 38 students are from different States and among 2184 students 544 are Hindus and 113 Muslims.

Various Scholarships like BC/MBC, merit, SC/ST, disability

student and Pragathi scholarship schemes were applied. Institutional scholarship of Rs.18,75,000 for 16 Catholic 41 Meritorious students was awarded.

Women in NCC: female cadets actively participate in firing, trekking, piloting flag hoisting ceremony. IEEE-(WIE) a students' wing encourages women students to actively participate in IEEE activities.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

We sensitize our students and staff to the constitutional obligations in terms of our values, rights, duties and responsibilities.

The institution formed a constitution club for creating awareness about the constitution of the nation to make students aware about the fundamental rights and duties, constitutional laws, to attain gender equality, democratic Indian society.

Also, the constitution club conducts several activities to empower the students on women's day, republic day.

Fit India Freedom Run by NCC conducts drawing competition to create awareness among students.

Blood donation Camps, Yoga day, traffic awareness program conducted by youth red cross club.

Our Code of Conduct for staff and students which governs the Code of conduct of everyone in the campus.

Professional ethics and human values - mandatory course recommended by the affiliating University - we teach this course to our 3rd and 4th year students which make them ethical human beings. And for 2nd year students Indian constitution law course is recommended which makes their knowledge very strong about the fundamental laws.

A course on Value Education for all disciplines across 8 semesters was introduced and taught which sensitizes the students on moral values, inculcating the human and professional values amongst them.

In the Republic Day and Independence Day celebrations all staff and students are encouraged to participate actively and hoisting the national flag with dignity, highlighting the importance of Indian Constitution and make them understand the importance of constitutional obligations.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

B. Any 3 of the above

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

7.1.11 - Institution celebrates / organizes national and international commemorative days,

events and festivals

The institution celebrates national and international special occasions to understand the importance of the events among the students.

Youth Red cross, NSS, NCC and constitution club celebrates independence day to improve national integrity, and to know the salient features of independent India.

Youth Red cross, Outreach Programme Committee, NCC celebrates Republic day to know about the constitution of India.

To recall Tamil heritage and culture, Pongal festival has been celebrated by the Tamil mandram and NCC.

Jyothis Club celebrates Onam and conducts Athapoo competition to maintain the customs and traditions.

Women's cell and Radio club celebrates women's day to empower the women students and organizes rally, seminars to create awareness among them.

NCC day was celebrated to appreciate the deserved NCC cadets.

Teachers day was celebrated by the IEEE student branch to motivate the educators.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Best Practice I

The "Pay Forward" scheme in the context of the canteen at St. Xavier's Catholic College of Engineering in Nagercoil suggests

a system where individuals can pay for an extra meal or item in advance to be provided to someone else in need. The "Pay Forward" scheme concept is often associated with acts of kindness and charity, encouraging a spirit of giving and helping others within the college community.

Best Practice II

The Poor Student Welfare Fund at St. Xavier's Catholic College of Engineering in Nagercoil is likely a financial aid initiative designed to support students who are facing financial challenges and might struggle to meet their educational expenses.

File Description	Documents
Best practices in the Institutional website	https://www.sxcce.edu.in/wp-content/uploads/2023/12/Final-Best-Practices-Final.pdf
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

'Developing a technically empowered humane society' is our prime area that is distinctive to our priority and thrust. Every society expects a payback from the institutions which emerged from it. As a technical institute we take this as our prime motto to serve the humane society and empower people in our domain of expertise. Developing a technically empowered humane society could be evidenced in the every activity of our institute. We are committed to taking the benefits of technical education to the society so as to empower them. Our sister concern Hiltek Pvt. Ltd. teaches robotics and automation to school students of our district. We have adopted 4 villages to serve them under Swachh Bharat Scheme. Our Electrical Department conducted energy audit at nearby villages and organized Energy Saving camp to educate how to overcome energy shortfall. Our final year students are encouraged to do their final year projects in the areas beneficial to the society and are advised to concentrate on the products and technology which make common man's life easier. Every technology is to serve the society for its betterment. We are intuitively committed to

bridge the gap between technology and its reach to the society.

File Description	Documents
Appropriate link in the institutional website	https://www.sxcce.edu.in/wp-content/uploads/2021/12/Distinctiveness.pdf
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

The institution aims for a graduation rate of 90% or higher, ensuring minimum pass percentages for UG and PG students across academic years. Students engage in Swayam-NPTEL online courses, Field Projects, and Internships. Each department conducts a value-added course and encourages participation in state and national events, aiming for 10% state-level and 5% national-level awards.

Emphasis on GATE exams with 20% participation and 5% qualification, achieving a highest salary of 10 LPA and an average of 3.5 LPA with 100% placement. Post-graduates actively participate in placement drives and trainings. The institution promotes higher studies abroad for at least 10 students and offers foreign language training.

Faculty engagement includes completing two online courses annually, industrial training, and supporting student placements. Publications, patents, and international conferences are key focus areas, with an increase in patent filing and publishing. Collaborations with industry, consultancy services, and establishing research labs aim for financial sustainability.

Cell activities, sports camps, and alumni contributions contribute to holistic development. Achieving a 4-star rating for IIC, 5 programs for EDC, and 5 MSME incubates are key targets. The institution aspires to maintain a NIRF ranking above 30, reflecting its commitment to excellence.