# <u>YEARLY STATUS REPORT - 2023-2024</u>

## 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/2024/02/AQAR-2022-2023.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/2023/09/Academic-Schedule-2023-2024.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, Dr. C. SELDEV CHISTOPHER, Dr. HELEN SULOCHANA, Dr. SHEEJA HERObIN RANI, Dr. Y. ANNIE BESSANT, Dr. S. MARIA SERAPHIN SUJITHA | VLSI Implementation | Ministry of Electronics &IT | 25/05/2022 | 4360000 |
| Dr. M.MARSALINE BENO | AICTE (SPICES) | AICTE | 02/09/2024 | 100000 |

## 8.Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI

  [View File](#)

## 9.No. of IQAC meetings held during the year      5

- Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?

  **Yes**

- 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**

- If yes, mention the amount

**11.Significant contributions made by IQAC during the current year (maximum five bullets)**

? The NBA compliance report for three undergraduate programs Civil Engineering, Computer Science and Engineering, and Information Technology was submitted to the NBA on December 23, 2023. An inspection by the NBA expert committee for these programs took place on May 11, 2024. The three programs received accreditation from the NBA on July 3, 2024, under the Tier II category, valid from 2024-2025 to 2026-2027. ? A preparatory meeting for the NAAC AQAR for the academic year 2022-2023 was held for departmental IQAC coordinators on August 28, 2023. The AQAR had been reviewed in the Academic Administrative Meeting on December 12, 2023, and after making necessary updates, it was submitted on December 20, 2023.

? To enhance AI-based teaching and learning, a one-day hands-on training session titled "Generative AI in Teaching and Learning" was organized for the faculty members on November 23, 2023. Additionally, a Faculty Development Program on "Developing Soft Skills" was conducted by NITTTR, Chandigarh, at our college's remote centre from February 12 to February 16, 2024. A New Faculty Orientation program focused on "Outcome-Based Education (OBE), Assessment Tools, and Measuring Attainment of Outcomes" took place on April 25, 2024.

? Performance appraisal reports for the academic year 2022-2023 were collected from all faculty members and analyzed in February 2024. Observations were shared with faculty members to support their continuous improvement.

? Academic audits, including assessments of course files, attendance, laboratory records, and activities of both professional and non-professional cells, were conducted for the academic year 2023-2024 by subject experts from National Engineering College, Kovilpatti. Findings were shared with the respective Heads of Department and faculty advisors, leading to necessary rectifications.? An audit assessing the performance of non-academic services (Canteen, Transport, Store, Hostels, Maintenance, and Hygiene) was conducted in May 2024.

? To continuously plan for the improvements and development of the institute in various aspects like student, faculty, infrastructure, research and outreach extension activities, we have finalized the benchmarks for the academic year 2023-2024 and it's action plan and accomplishment were reviewed quarterly in the IQAC meetings (23-09-2023, 29-01-2024, 26-02-2024 and on 31-05-2024).

**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 improve the student progression, graduation rate be greater than or equal to 90%. | Overall graduation rate of the 2023-2024 batch is 85.36 %. |
| Every department should conduct at least one value- added course of a minimum 30 period's duration for every student in an academic year. | 92.8% |
| Every student undergoes Field Project and Internship during their course of study. | 71.9% |
| 20% of students should take the GATE exam, and at least 5% of them should qualify | 79 students registered and 7 students have been qualified (Reg.= 37%, Qualified= 12%) |
| 15% of students from every department have to complete Swayam-NPTEL online courses per year. | overall 70.84% of benchmark has been achieved. |
| Placement • Highest salary 10 LPA, Average salary 3.5 LPA • 100% placement to all the eligible willing students • PG placements -100% participation in drives, trainings | 80% |
| Encourage and make at least 10 students register higher studies at foreign universities | 7 students have joined higher studies at abroad |
| Make the students participate in state-level and national-level events. Should result in at least 10% state-level awards and 5% national-level awards. | ~ 43.38% |
| • UG project should be published in one reputed conference proceedings • PG project should be published in 1 Scopus-indexed journal. | UG- 67 % PG-10 % |

| | |
|---|---|
| To enhance innovative teaching and student- centric learning activities, each faculty members are asked to complete one online course related to T&L activities and other one will be in their area of interest | 68% of the teaching faculty members have taken courses in Swayam-NPTEL platform. |
| Collaboration with Industry – Every faculty member has to undergo industrial training (Internship) and support student placements of the students. | 16.8% |
| Faculty Publication • AP- 1 Scopus or 1 SCI journal per year • Asso. & Prof. - 2 Scopus + 1 SCI or 2 SCI journals per year | Prof : 80.3% Assoc. Prof: 41.3% AP : 37.63% |
| FDP, Workshop Organization- Every dept. should conduct at least 1 - one week FDPs, Workshop per year | 80% |
| Centre of Excellence- Take the initiative to establish a Research lab setup, Maker Space per research group | 30% |
| IIC- (4 star rating), EDC- 5 programmes , MSME (5 incubates),NIRF Innovation (Within 300 band) | IIC-3* EDC- 8 events |
| NIRF Ranking- Above 30 marks | Engg College Category- 25.98, Overall-27.71 |

**13.Was the AQAR placed before the statutory body?**     Yes

- Name of the statutory body

| Name of the statutory body | Date of meeting(s) |
|---|---|
| Academic Administrative Meeting | 19/12/2024 |

**14.Was the institutional data submitted to AISHE ?**                    `Yes`

- Year

| Part A | |
|---|---|
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| Encourage and make at least 10 students register higher studies at foreign universities | 7 students have joined higher studies at abroad |
| Make the students participate in state-level and national-level events. Should result in at least 10% state-level awards and 5% national-level awards. | ~ 43.38% |
| • UG project should be published in one reputed conference proceedings • PG project should be published in | UG- 67 % PG-10 % |

| | |
|---|---|
| 1 Scopus-indexed journal. | |
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| Centre of Excellence- Take the initiative to establish a Research lab setup, Maker Space per research group | 30% |
| IIC- (4 star rating), EDC- 5 programmes , MSME (5 incubates),NIRF Innovation (Within 300 band) | IIC-3* EDC- 8 events |
| NIRF Ranking- Above 30 marks | Engg College Category- 25.98, Overall-27.71 |

| | |
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| **13.Was the AQAR placed before the statutory body?** | Yes |
| • Name of the statutory body | |

| Name of the statutory body | Date of meeting(s) |
|---|---|
| Academic Administrative Meeting | 19/12/2024 |

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

- 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 English, Professional Ethics, Total Quality Management, and Principles of Management. These courses aim to instill a strong sense of ethics, effective communication skills, and 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

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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. We aim 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 transfer and dual degrees. Also, our curriculum permits students to optionally enroll and study the courses in physical/hybrid/online modes offered by reputed Central / State funded Universities / Institutions that are in the top 20 positions in the latest NIRF ranking, National/State-funded research institutions/laboratories and reputed companies. Students are also permitted to enroll and

undergo elective courses in Online mode at Universities abroad in the top 500 in QS ranking in the last three years. Students are also permitted to study courses of a particular semester in a University / Institution abroad based on MoU. 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 outcome-based curriculum design and implementation.

## 17.Skill development:

Through placement cell, we are organizing trainings from 3rd semester to 7th semester. In the 3rd sem & 4 th 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 training. 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, 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 Dice - 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 trainings include 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 for 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 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-based education with a 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. Also through online MOOC platforms students have taken additional skill-based courses. Around 45 courses have been taken up by the students. They are Hardware and Networking, DevOps,Database Programming with pl/sql, Microsoft Essentials, Naalayathiran - IBM Skillsbuild, Digital Marketing (Naan Mudhalvan),AI Blended with No Code, Data Analytics & Visualization, Electric Vehicle Technology, Product Design Engineering using fusion 360, AutoCAD, Research Tools in Computer Applications, Scilab, Build with No Code, AR VR, PL/SQL , Business Tools Laboratory, Advanced Excel, Cyber Security and Privacy, Fracture, Fatigue And Failure Of Materials, Introduction To Marketing Essentials, Metal Additive Manufacturing, Physics Of Renewable Energy Systems, Software Conceptual Design, Sustainable Power Generation Systems, Toyota Production System, VLSI Design Flow: RTL to GDS, Advances in Strategic Human, Resource Management (HRM), AI in Marketing, Business Analytics For Management Decision, Computer Integrated Manufacturing, Data Analytics with Python, Deep Learning, Entrepreneurship Essentials, Ethics In Engineering Practice, Forests and their Management, Fundamental Algorithms: Design And Analysis, Introduction To Industry 4.0 And Industrial Internet Of Things, Leadership and Team Effectiveness, Managing Change In Organizations, Optical Wireless Communications for Beyond 5G Networks and IoT, Production and Operation Management, Python for Data Science, Social Networks, Systems and Usable Security, The Joy of Computing using Python, Water Quality Management Practices.

**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 knowledge, skill, attitude, and behavior 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 expertise 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 a learner-centric approach through the curriculum feedback collected from the stakeholders. Also, our management is very keen to add courses to the curriculum that enhance students' knowledge, skills, and attitudes 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 program. The department's IQAC coordinators review the questions and accept 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 socia 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 | **16** |
|---|---|
| Number of programmes offered during the year: | |

| File Description | Documents |
|---|---|
| Institutional Data in Prescribed Format | [View File](#) |

## 2.Student

| 2.1 | **2327** |
|---|---|
| Total number of students during the year: | |

| File Description | Documents |
|---|---|
| Institutional data in Prescribed format | [View File](#) |

| 2.2 | **622** |
|---|---|
| Number of outgoing / final year students during the year: | |

| File Description | Documents |
|---|---|
| Institutional Data in Prescribed Format | [View File](#) |

| 2.3 | **2327** |
|---|---|
| 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 | **675** |
|---|---|
| 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: | |

| File Description | Documents |
|---|---|
| Institutional Data in Prescribed Format | View File |

| 3.3 | **14** |
|---|---|
| Number of sanctioned posts for the year: | |

## 4.Institution

| 4.1 | **271** |
|---|---|
| Number of seats earmarked for reserved categories as per GOI/State Government during the year: | |
| 4.2 | **72** |
| Total number of Classrooms and Seminar halls | |
| 4.3 | **1031** |
| Total number of computers on campus for academic purposes | |
| 4.4 | **747.54** |
| 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 2023-2024. 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 2023-2024, 19.5% of syllabus revision was carried out in SXCCE R-2022 based on the current tends, 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

16

| File Description | Documents |
|---|---|
| Minutes of relevant Academic Council/BOS meeting | [View File](#) |
| Details of syllabus revision during the year | [View File](#) |
| Any additional information | [View File](#) |

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

140

| 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

**13**

| 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

**16**

| 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 courseGE8076-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**

45

| 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**

**1800**

| 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**

**1652**

| 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/2024/12/Feedback-Report-2023-2024.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/2024/12/Feedback-Report-2023-2024.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

**706**

| 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)

**166**

| 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 from internal tests and history of arrears. Coaching classes are conducted for the slow learners to guide them and improvement tests are conducted to improve their internal marks. Remedial classes are also conducted to clear their backlogs. 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.**

Performance of the advanced learners is improved by giving
motivation through mentors and course in-charges to get good
grade. Motivation given to appear for GATE examination and attend
Hackathan. Regular Placement training programs are conducted to
improve their skills on aptitude tests and Group discussion. They
are motivated by giving prizes and Best Student Awards.

Institution arranges an orientation programme for the first year
students. It comprise of physical activity, proficiency modules,
lectures by eminent people, department/campus visits. Bridge
course is arranged for the lateral entry students to improve
mathematical and language skills. Value added courses are
conducted for all students to improve their skills. Seminars and
workshops are conducted through various cells to improve the
knowledge in latest technology.

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

## 2.2.2 - Student – Teacher (full-time) ratio

| Year | Number of Students | Number of Teachers |
|---|---|---|
| 31/05/2024 | 2327 | 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. To keep students
engaged in the classroom, faculty takes efforts for the conduction
of guest lectures, workshops, seminars and student presentations.
Quiz and Group discussion enhances the learning experience of the
students. In addition to the experiments given in the syllabus,
students are instructed to practice additional experiments in the

laboratory. 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.

Enrichment programmes like Skill development and career opportunities are conducted for the students to improve their skills. Students are motivated to do Swayam/NPTEL courses. Every semester students are doing IIT Bombay spoken tutorial courses. Various competitions are conducted for the students and prizes are given for motivating them. Both individual and team events are conducted for improving the participative learning. The students are encouraged to take up internship programmes in industry during their semester vacations. Students are taken to industrial visit at least once in a semester to see the real time operation. Training in industries, survey camps, mini projects etc help the students to improve their learning.

| File Description | Documents |
|---|---|
| Upload any additional information | [View File](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 encourage the students to listen and learn. Course plan, course materials, question banks and other learning materials are shared with students through college automation software and Google Classrooms. Online quizzes are conducted to assess the students. Simulation software like MATLAB, PSCAD, VSIM, SCILAB, MULTISIM and Power world simulator (educational version) are used.

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/u/1/c/NTQ4MTQyODc0Mzcz |
| 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

**126**

| 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

Dean of Academics prepare the academic calendar for every semester. 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 and posted in website.

| 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

**84**

| 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)

**13**

| 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**

**16**

| 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**

**11**

| 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 endsemester 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 2023 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/2024/10/Course-Outcome-2023-2024.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 commencementof 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 Dicussion, 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**

**calculatedfrom 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

**531**

| 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/2024/11/Second-Annual-Report-2023-2024.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/2024/12/Feedback-Report-2023-2024.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 a rich research ambiance, located inthe southern part of our country. The institution intends to emphasize 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 to conduct quality research through analysis and synthesis of current research technologies and develop new or improved processes and products for the benefit of society. The policy developed by the Centre For Research and Development(CFRD) acts as a framework for developing and implementing quality research activities and good practices in the institution. The research policies are designed to improve the research performance of the students and overall development activities in the college, and these policies are in accordance with the Institute's Vision to produce optimal humans, 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 | View File |
| Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized | View File |
| List of teachers receiving grant and details of grant received | **No File Uploaded** |
| Any additional information | View File |

### 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 | **No File Uploaded** |
| List of teachers and details of their international fellowship(s) | **No File Uploaded** |
| Any additional information | **No File Uploaded** |

### 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)

**44.6**

| 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

**7**

| 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

**35**

| 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.

**28 scholars have registered for their Ph.D during the 2023-2024 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.**

**Faculty engaged in publications have been given cash awards.**

**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.**

**Students are given the opportunity to showcase their technical abilities at the annual Tech-Fest and exhibition, a platform dedicated to student research and knowledge exchange.**

**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.**

**A company 'Flutter Frog' is registered as an incubate and 25 of our students are doing internship.**

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

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

**106**

| 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 | **No File Uploaded** |

**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**

`22`

| 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**

`59`

| 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

**10**

| File Description | Documents |
|---|---|
| Upload any additional information | [View File](#) |
| Paste link for additional information | https://www.igi-global.com/chapter/learner-centric-teaching-practices-for-achieving-learning-outcomes/342056 |

### 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

**236**

| 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

**39**

| File Description | Documents |
|---|---|
| Bibiliometrics 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)

**3.58**

| 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 | View File |

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

**21.60**

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

## 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

**Extension activities play a vital role in enhancing the public recognition of professions and promoting societal welfare. The primary objectives of these activities include fostering a connection between individuals and their communities, identifying and addressing community needs, and providing opportunities for students and faculty to engage in community-based initiatives. These efforts aim to instill a sense of social and civic responsibility, encourage civic engagement, and support holistic student development.**

**Our college actively conducts and participates in various**

extension and outreach programs to nurture the Institute-Neighborhood relationship and sensitize students to societal needs. Students engage in activities through the National Service Scheme (NSS), National Cadet Corps (NCC), Outreach Programme Committee, Eco Club, Women's Cell, and other associations. Key initiatives include blood donation camps, road safety awareness rallies, orphanage and school visits, tree plantations, and energy-saving campaigns. These activities enable students to contribute meaningfully to the community while developing leadership skills, self-confidence, and a strong sense of responsibility.

By bridging the gap between campus and community, these initiatives promote volunteerism, holistic personality development, and social awareness. They create a positive impact, fostering well-rounded citizens dedicated to community welfare and sustainable development.

| File Description | Documents |
|---|---|
| Upload any additional information | View File |
| Paste link for additional information | https://www.sxcce.edu.in/ncc/activities-and-achievements/ |

**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**

12

| 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)**

20

| 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

**405**

| 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

**127**

| 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)

**29**

| 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 have66 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-speedinternet 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 wellfurnished 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

**72**

| 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)

**22.7**

| 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)

**20.13**

| 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

**543**

| 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 featuresLenovo 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 |
|---|---|
| 2327 | 1031 |

| 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)

**747.54**

| 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

**333**

| File Description | Documents |
|---|---|
| Upload self-attested letters with the list of students receiving scholarships | View File |
| Upload any additional information | No File Uploaded |

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

**204**

| 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/2024/12/5.1.3.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**

**264**

| File Description | Documents |
|---|---|
| Any additional information | View File |
| Number of students benefited 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

**265**

| 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

**40**

| 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**

**7**

| 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**

**8**

| 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 backbone 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 cocurricular activities.

3. The student representatives participate in monitoring students of their respective classes and represent themselves in the class committee meetings held periodically.

4. Department associations, professional bodies such as IEEE Education Society, Ensav Club, 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, Women's Cell, Konverz, Photography Club, Jyothis, etc. are available in the college whose activities are organized by the students.

5. Each association has a student secretary, joint secretary, treasurer, and office bearers guided by the faculty advisor.

6. Students are actively involved in conducting symposiums, conferences, and seminars for which most of the activities are restituted by them.

7. The above activities enhance their communication skills, management skills, leadership skills, teamwork, time management, resource management skills and build 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

11

| 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

The St. Xavier's Alumni Association (SXAAT), founded on April 3, 2005, and registered as a trust on July 21, 2017, under registration number BK4 49/2021, plays a vital role in strengthening ties between alumni and the college. The trust is led by Patron Rev. Fr. Dr. M. Maria William, with Mr. J. M. Sobin as President and Dr. J. Maheswaran as Working President, among other board members.

Regional chapters operate in Nagercoil, Chennai, Bangalore, Kerala, Europe, UAE, and the USA. The annual Winter Alumni Meet on December 26th is a key event, with around 100 attendees in 2023. Graduates also connect during Graduation Day to share their college experiences.

SXAAT actively contributes to the institution by inviting alumni to offer placement guidance, software training, and career insights. Feedback from alumni aids in planning developmental activities. Financial support is extended for tuition fees, medical expenses of underprivileged students, and sponsorship for conferences and events.

The association also conducts impactful programs, including a job opportunities awareness session for MBA students on April 4, 2024, and a Menstrual Health & Hygiene workshop in collaboration with the Women Cell on April 2, 2024, demonstrating its commitment to student welfare and empowerment.

| 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

D. 2 Lakhs - 5 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 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 GoverningCouncil, Correspondent, Principal, Bursar, Academic and AdministrativeBody, Deans, HODs, Assistant HODs, PG Coordinators, Faculty Advisors of Co-curricular and Extracurricular Bodies, Office Superintendent, EstateOfficer, 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 andmission 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 Management Council on the activities of the college every month and gives its comments and suggestions. Principalalong 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, NIRF ranking, and the website. The IQAC coordinator oversees the institution's accreditation, coordinates quality improvementinitiatives, 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 plansencompass initiatives for upgrading staff skills, enriching 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 stakeholders, the college developed a 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 focused 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/2024/11/Benchmarks-2023-2024.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 the 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 of by the administrative setup consisting of the Correspondent, Principal, Bursar, Deans, IQAC Coordinator, HODs, Physical Education Director, Librarian, Placement Officer, Office Superintendent, Estate Officer, PersonalOfficer, Verification Officer, System Administrator, transport officer and teaching and non-teaching staff members. The governing Council constitution and function, categories of employees and their responsibilities, and service rules and procedures are provided in the college administrative manual. The 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

2

| 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

**4**

| 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.)

**136**

| 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 a 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, 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 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/2024/11/Audit-Report-2023-2024.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)**

0

| 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 expenditures are 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
Spokentutorial 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.

7. Research seed money process have been initiated.

| 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. Scholarship amount will be given those who cleared the
mock exam and the registration fee will be refunded, if they
cleared the GATE exam. • 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 2023-2024 were conducted by the subject experts in
all domains from the National Engineering College, Kovilpatti. 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 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/2024/12/Annual-Report-2023-24.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 IEEE Student Branch had organized Women's Day and Women's cell has conducted awareness and enrichment programs on Drug Awareness, Menstrual Health & Hygiene, Eliminating Violence Against Women, Legal Awareness Program and rally to raise the voice to Create awareness about violence against women.**

**Constitution club had organized an empowerment program to attain**

gender-equality in a democratic Indian society.

The Anti-Gender Harassment Committee had organized awareness programs on Drug & Social media, Social Media Reels, Eliminating Violence Against Women and rally to make public awareness about women harassment and their rights.

• 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 wardens.

• 112 CCTV Surveillance throughout the campus and security arrangement.

A counselling center equipped with a counsellor provides counselling for students and staff.

• Guidance and mentoring given to students by the 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://www.sxcce.edu.in/wp-content/uploads/2024/09/Gender-Sensitization-Action-Plan.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 biodegradable, 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 the 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 utilize this biogas for cooking. Liquid waste generated within the campus is directed to sewage. We have a 20 KLD capacity of STP in the boys' hostel. All sorts of liquid waste from the hostel are disposed of to the Sewage Treatment plant and the treated water is used for gardening purposes. 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, reader, scribe, soft copies of reading materials, screen reading, etc.**    A. Any 4 or all of the above

| File Description | Documents |
|---|---|
| Geotagged photographs / videos of facilities | View File |
| Policy documents and brochures on the support to be provided | View File |
| 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 from different castes, religions, and regions study here. We respect their rights and beliefs.

Gandhi Jayanthi, Teacher's Day, Women's Day, Engineers' Day, Republic Day, Independence Day, Yoga Day, Diwali, Ramadan, Christmas, Pongal, and Onam are celebrated as signs of social,

religious, and regional harmony.

Our cell's activities in this context include: Awareness on Drug and Social Media, an AwarenessProgram on Menstrual Health and Hygiene, an Election Awareness Programme, and Mega Tree Plantation Drive.

Majority of the departments, 10 out of 14 are headed by women faculties. Majority of ourteaching staff are Female.

Among students – 38.13% are female, 28 students are from different States and among 2326students 588 are Hindus and 134 Muslims.

Scholarships have been allocated as follows: SC/ST scholarships for 73 students, BC/MBC scholarships for 299 students, Pudhumai Pen Scholarship for 17 female students, and the Pragati Scholarship for 12 students.

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

Our institution prioritizes sensitizing students and staff to constitutional obligations, encompassing values, rights, duties, and responsibilities. A Constitution Club has been established to promote awareness of the nation's fundamental rights, duties, constitutional laws, gender equality, and democratic principles. The club organizes various activities, including competitions on the Indian Constitution, seminars on topics like the Powers and Functions of the Indian Government, the Women's Reservation Bill, and Fundamental Rights and Duties, to deepen students' understanding of constitutional values.

Additional initiatives include election awareness programs and events like Yoga Day and blood donation drives, conducted by the

Youth Red Cross Club. The National Service Scheme also contributes by organizing special seven-day camps in rural areas, fostering social responsibility.

To embed professional ethics and human values, the institution offers a mandatory course for third and fourth-year students, while second-year students study Indian Constitution Law. A Value Education course across disciplines further instills moral and ethical values.

Republic Day and Independence Day celebrations engage students and staff in meaningful participation, with flag hoisting and emphasis on the significance of the Constitution. A campus-wide Code of Conduct ensures adherence to ethical standards, nurturing responsible and ethical citizens.

| 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 theimportance of the events among the students.

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

Youth Red cross, NSS, NCC and Constitution club celebrates Republic day to knowabout the constitution of India. To recall Tamil heritage and culture, Pongal festival has been celebrated by the Tamilmandram, Outreach Program Committee and NCC.

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

Women's cell celebrates women's day to empower the women students and organizesrally, seminars to create awareness among them.

NCC day was celebrated to appreciate the deserved NCC cadets.

| 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**

**St. Xavier's Catholic College of Engineering (SXCCE) offers a variety of soft skill programs aimed at enhancing students' personal and professional development. These programs are part of the institution's holistic approach to education, focusing on improving communication, interpersonal skills, and emotional intelligence, which are crucial for career success.**

**Best Practice: II**

**The Merit Scholarship Exam conducted by St. Xavier's Catholic College is to recognize and support academically talented students. These exams are designed to identify students who demonstrate outstanding performance in various academic subjects. The scholarships provided through these exams typically offer financial assistance, helping students cover tuition fees and other educational expenses.**

| File Description | Documents |
|---|---|
| Best practices in the Institutional website | https://www.sxcce.edu.in/wp-content/uploads/2024/12/Best-Practices.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 SwachhBharat 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 2023-2024. 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 2023-2024, 19.5% of syllabus revision was carried out in SXCCE R-2022 based on the current tends, 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**

16

| File Description | Documents |
| --- | --- |
| Minutes of relevant Academic Council/BOS meeting | View File |
| Details of syllabus revision during the year | View File |
| Any additional information | View File |

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

**140**

| 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**

**13**

| 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**

**16**

| 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 courseGE8076-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**

45

| 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

**1800**

| 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

**1652**

| 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/2024/12/Feedback-Report-2023-2024.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/2024/12/Feedback-Report-2023-2024.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

**706**

| 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)

**166**

| 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 from internal tests and history of arrears. Coaching classes are conducted for the slow learners to guide them and improvement tests are conducted to improve their internal marks. Remedial classes are also conducted to clear their backlogs. 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.

Performance of the advanced learners is improved by giving motivation through mentors and course in-charges to get good grade. Motivation given to appear for GATE examination and attend Hackathan. Regular Placement training programs are conducted to improve their skills on aptitude tests and Group discussion. They are motivated by giving prizes and Best Student Awards.

Institution arranges an orientation programme for the first year students. It comprise of physical activity, proficiency modules, lectures by eminent people, department/campus visits. Bridge course is arranged for the lateral entry students to improve mathematical and language skills. Value added courses are conducted for all students to improve their skills. Seminars and workshops are conducted through various cells to improve the knowledge in latest technology.

| 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 |
| --- | --- | --- |
| 31/05/2024 | 2327 | 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. To keep students engaged in the classroom, faculty takes efforts for the conduction of guest lectures, workshops, seminars and student presentations. Quiz and Group discussion enhances the learning experience of the students. In addition to the experiments given in the syllabus, students are instructed to practice additional experiments in the laboratory. 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.

Enrichment programmes like Skill development and career opportunities are conducted for the students to improve their skills. Students are motivated to do Swayam/NPTEL courses. Every semester students are doing IIT Bombay spoken tutorial courses. Various competitions are conducted for the students and prizes are given for motivating them. Both individual and team events are conducted for improving the participative learning. The students are encouraged to take up internship programmes in industry during their semester vacations. Students are taken to industrial visit at least once in a semester to see the real time operation. Training in industries, survey camps, mini projects etc help the students to improve their learning.

| 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 encourage the students to listen and learn. Course plan, course materials, question banks and other learning materials are shared with students through college automation software and Google Classrooms. Online quizzes are conducted to assess the students. Simulation software like MATLAB, PSCAD, VSIM, SCILAB, MULTISIM and Power world simulator (educational version) are used.

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/u/1/c/NTQ4MTQyODc0Mzcz |
| 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**

**126**

| 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

**Dean of Academics prepare the academic calendar for every semester. 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 and posted in website.**

| 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**

**84**

| 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)**

**13**

| 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**

**16**

| 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

**11**

| 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 endsemester 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](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 2023 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/2024/10/Course-Outcome-2023-2024.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 commencementof 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 Dicussion, 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 calculatedfrom 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

**531**

| 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/2024/11/Second-Annual-Report-2023-2024.pdf](https://www.sxcce.edu.in/wp-content/uploads/2024/11/Second-Annual-Report-2023-2024.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/2024/12/Feedback-Report-2023-2024.pdf](https://www.sxcce.edu.in/wp-content/uploads/2024/12/Feedback-Report-2023-2024.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 a rich**

research ambiance, located inthe southern part of our country. The institution intends to emphasize 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 to conduct quality research through analysis and synthesis of current research technologies and develop new or improved processes and products for the benefit of society. The policy developed by the Centre For Research and Development(CFRD) acts as a framework for developing and implementing quality research activities and good practices in the institution. The research policies are designed to improve the research performance of the students and overall development activities in the college, and these policies are in accordance with the Institute's Vision to produce optimal humans, 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 | View File |
| Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized | View File |
| List of teachers receiving grant and details of grant received | No File Uploaded |
| Any additional information | View File |

### 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 | No File Uploaded |
| List of teachers and details of their international fellowship(s) | No File Uploaded |
| Any additional information | No File Uploaded |

### 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)

44.6

| 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**

7

| 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**

35

| 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.

28 scholars have registered for their Ph.D during the 2023-2024 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.

Faculty engaged in publications have been given cash awards.

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.

Students are given the opportunity to showcase their technical abilities at the annual Tech-Fest and exhibition, a platform dedicated to student research and knowledge exchange.

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.

A company 'Flutter Frog' is registered as an incubate and 25 of our students are doing internship.

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

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

106

| 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 | No File Uploaded |

**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**

**22**

| 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**

**59**

| 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

**10**

| File Description | Documents |
|---|---|
| Upload any additional information | View File |
| Paste link for additional information | https://www.igi-global.com/chapter/learner-centric-teaching-practices-for-achieving-learning-outcomes/342056 |

## 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

**236**

| 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

**39**

| File Description | Documents |
|---|---|
| Bibiliometrics 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)**

**3.58**

| 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 | View File |

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

**21.60**

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

**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

**Extension activities play a vital role in enhancing the public recognition of professions and promoting societal welfare. The primary objectives of these activities include fostering a connection between individuals and their communities,**

identifying and addressing community needs, and providing opportunities for students and faculty to engage in community-based initiatives. These efforts aim to instill a sense of social and civic responsibility, encourage civic engagement, and support holistic student development.

Our college actively conducts and participates in various extension and outreach programs to nurture the Institute-Neighborhood relationship and sensitize students to societal needs. Students engage in activities through the National Service Scheme (NSS), National Cadet Corps (NCC), Outreach Programme Committee, Eco Club, Women's Cell, and other associations. Key initiatives include blood donation camps, road safety awareness rallies, orphanage and school visits, tree plantations, and energy-saving campaigns. These activities enable students to contribute meaningfully to the community while developing leadership skills, self-confidence, and a strong sense of responsibility.

By bridging the gap between campus and community, these initiatives promote volunteerism, holistic personality development, and social awareness. They create a positive impact, fostering well-rounded citizens dedicated to community welfare and sustainable development.

| File Description | Documents |
|---|---|
| Upload any additional information | [View File](#) |
| Paste link for additional information | https://www.sxcce.edu.in/ncc/activities-and-achievements/ |

**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**

12

| 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)**

**20**

| 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**

**405**

| 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**

**127**

| 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)**

**29**

| 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 have66 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-speedinternet 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 wellfurnished 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

**72**

| 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)

**22.7**

| 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)**

20.13

| 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

**543**

| 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 featuresLenovo 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.](https://www.sxcce.edu.in/computing-facilities.) |

## 4.3.2 - Student - Computer ratio

| Number of Students | Number of Computers |
|---|---|
| **2327** | **1031** |

| 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)

**747.54**

| 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

**333**

| File Description | Documents |
|---|---|
| Upload self-attested letters with the list of students receiving scholarships | View File |
| Upload any additional information | No File Uploaded |

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

**204**

| 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/2024/12/5.1.3.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**

**264**

| File Description | Documents |
|---|---|
| Any additional information | View File |
| Number of students benefited 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**

**265**

| 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**

**40**

| 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**

**7**

| 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**

**8**

| 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 backbone 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 cocurricular activities.

3. The student representatives participate in monitoring students of their respective classes and represent themselves in the class committee meetings held periodically.

4. Department associations, professional bodies such as IEEE Education Society, Ensav Club, 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, Women's Cell, Konverz, Photography Club, Jyothis, etc. are available in the college whose activities are organized by the students.

5. Each association has a student secretary, joint secretary, treasurer, and office bearers guided by the faculty advisor.

6. Students are actively involved in conducting symposiums, conferences, and seminars for which most of the activities are restituted by them.

7. The above activities enhance their communication skills, management skills, leadership skills, teamwork, time management, resource management skills and build 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

**11**

| 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

The St. Xavier's Alumni Association (SXAAT), founded on April 3, 2005, and registered as a trust on July 21, 2017, under registration number BK4 49/2021, plays a vital role in strengthening ties between alumni and the college. The trust is led by Patron Rev. Fr. Dr. M. Maria William, with Mr. J. M. Sobin as President and Dr. J. Maheswaran as Working President, among other board members.

Regional chapters operate in Nagercoil, Chennai, Bangalore, Kerala, Europe, UAE, and the USA. The annual Winter Alumni Meet on December 26th is a key event, with around 100 attendees in 2023. Graduates also connect during Graduation Day to share their college experiences.

SXAAT actively contributes to the institution by inviting alumni to offer placement guidance, software training, and career insights. Feedback from alumni aids in planning developmental activities. Financial support is extended for tuition fees, medical expenses of underprivileged students, and sponsorship for conferences and events.

The association also conducts impactful programs, including a job opportunities awareness session for MBA students on April 4, 2024, and a Menstrual Health & Hygiene workshop in collaboration with the Women Cell on April 2, 2024, demonstrating its commitment to student welfare and empowerment.

| 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 | D. 2 Lakhs - 5 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 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 GoverningCouncil, Correspondent, Principal, Bursar, Academic and AdministrativeBody, Deans, HODs, Assistant HODs, PG Coordinators, Faculty Advisors of Co-curricular and Extracurricular Bodies, Office Superintendent, EstateOfficer, 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 andmission 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/](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 Management Council on the activities of the college every month and gives its comments and suggestions. Principalalong 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, NIRF ranking, and the website. The IQAC coordinator oversees the institution's accreditation, coordinates quality improvementinitiatives, 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 plansencompass initiatives for upgrading staff skills, enriching 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 stakeholders, the college developed a 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 focused 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/2024/11/Benchmarks-2023-2024.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 the 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 of by the administrative setup consisting of the Correspondent, Principal, Bursar, Deans, IQAC Coordinator, HODs, Physical Education Director, Librarian, Placement Officer, Office Superintendent, Estate Officer, PersonalOfficer, Verification Officer, System Administrator, transport officer and teaching and non-teaching staff members. The governing Council constitution and function, categories of employees and their responsibilities, and service rules and procedures are provided in the college administrative manual. The 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

**2**

| 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

**4**

| 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.)

**136**

| 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 a 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, 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 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/2024/11/Audit-Report-2023-2024.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)

0

| 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 expenditures are 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 Spokentutorial 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.

7. Research seed money process have been initiated.

| 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. Scholarship amount will be given those who cleared the mock exam and the registration fee will be refunded, if they cleared the GATE exam. • 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 2023-2024 were conducted by the subject experts in all domains from the National Engineering College, Kovilpatti. 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 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/2024/12/Annual-Report-2023-24.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 IEEE Student Branch had organized Women's Day and Women's cell has conducted awareness and enrichment programs on Drug Awareness, Menstrual Health & Hygiene, Eliminating Violence Against Women, Legal Awareness Program and rally to raise the voice to Create awareness about violence against women.

Constitution club had organized an empowerment program to attain gender-equality in a democratic Indian society.

The Anti-Gender Harassment Committee had organized awareness programs on Drug & Social media, Social Media Reels, Eliminating Violence Against Women and rally to make public awareness about women harassment and their rights.

• 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 wardens.

• 112 CCTV Surveillance throughout the campus and security arrangement.

A counselling center equipped with a counsellor provides counselling for students and staff.

• Guidance and mentoring given to students by the 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://www.sxcce.edu.in/wp-content/uploads/2024/09/Gender-Sensitization-Action-Plan.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 biodegradable, 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 the 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 utilize this

biogas for cooking. Liquid waste generated within the campus is directed to sewage. We have a 20 KLD capacity of STP in the boys' hostel. All sorts of liquid waste from the hostel are disposed of to the Sewage Treatment plant and the treated water is used for gardening purposes. 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 | <u>View File</u> |
| 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 | <u>View File</u> |
| Any other relevant information | <u>View File</u> |

**7.1.5 - Green campus initiatives include**

| | |
|---|---|
| **7.1.5.1 - The institutional initiatives for greening the campus are as follows:**<br><br>1. Restricted entry of automobiles<br>2. Use of bicycles/ Battery-powered vehicles<br>3. Pedestrian-friendly pathways<br>4. Ban on use of plastic<br>5. Landscaping | **A. Any 4 or All of the above** |

| 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:**<br><br>1. **Green audit**<br>2. **Energy audit**<br>3. **Environment audit**<br>4. **Clean and green campus recognitions/awards**<br>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 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:** | A. Any 4 or all of the above |

| | |
|---|---|
| **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 | View File |
| 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 from different castes, religions, and regions study here. We respect their rights and beliefs.**

**Gandhi Jayanthi, Teacher's Day, Women's Day, Engineers' Day, Republic Day, Independence Day, Yoga Day, Diwali, Ramadan, Christmas, Pongal, and Onam are celebrated as signs of social, religious, and regional harmony.**

**Our cell's activities in this context include: Awareness on Drug and Social Media, an AwarenessProgram on Menstrual Health and Hygiene, an Election Awareness Programme, and Mega Tree Plantation Drive.**

**Majority of the departments, 10 out of 14 are headed by women faculties. Majority of ourteaching staff are Female.**

**Among students – 38.13% are female, 28 students are from different States and among 2326students 588 are Hindus and 134 Muslims.**

**Scholarships have been allocated as follows: SC/ST scholarships for 73 students, BC/MBC scholarships for 299 students, Pudhumai Pen Scholarship for 17 female students, and the Pragati Scholarship for 12 students.**

**Women in NCC: female cadets actively participate in firing,**

trekking, and piloting flag hoisting ceremony. IEEE-(WIE) a students' wing encourages women students to actively participate inIEEE 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:

Our institution prioritizes sensitizing students and staff to constitutional obligations, encompassing values, rights, duties, and responsibilities. A Constitution Club has been established to promote awareness of the nation's fundamental rights, duties, constitutional laws, gender equality, and democratic principles. The club organizes various activities, including competitions on the Indian Constitution, seminars on topics like the Powers and Functions of the Indian Government, the Women's Reservation Bill, and Fundamental Rights and Duties, to deepen students' understanding of constitutional values.

Additional initiatives include election awareness programs and events like Yoga Day and blood donation drives, conducted by the Youth Red Cross Club. The National Service Scheme also contributes by organizing special seven-day camps in rural areas, fostering social responsibility.

To embed professional ethics and human values, the institution offers a mandatory course for third and fourth-year students, while second-year students study Indian Constitution Law. A Value Education course across disciplines further instills moral and ethical values.

Republic Day and Independence Day celebrations engage students and staff in meaningful participation, with flag hoisting and emphasis on the significance of the Constitution. A campus-wide Code of Conduct ensures adherence to ethical standards, nurturing responsible and ethical citizens.

| 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 theimportance of the events among the students.**

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

**Youth Red cross, NSS, NCC and Constitution club celebrates**

Republic day to knowabout the constitution of India. To recall Tamil heritage and culture, Pongal festival has been celebrated by the Tamilmandram, Outreach Program Committee and NCC.

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

Women's cell celebrates women's day to empower the women students and organizesrally, seminars to create awareness among them.

NCC day was celebrated to appreciate the deserved NCC cadets.

| 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

St. Xavier's Catholic College of Engineering (SXCCE) offers a variety of soft skill programs aimed at enhancing students' personal and professional development. These programs are part of the institution's holistic approach to education, focusing on improving communication, interpersonal skills, and emotional intelligence, which are crucial for career success.

Best Practice: II

The Merit Scholarship Exam conducted by St. Xavier's Catholic College is to recognize and support academically talented students. These exams are designed to identify students who demonstrate outstanding performance in various academic subjects. The scholarships provided through these exams typically offer financial assistance, helping students cover tuition fees and other educational expenses.

| File Description | Documents |
|---|---|
| Best practices in the Institutional website | https://www.sxcce.edu.in/wp-content/uploads/2024/12/Best-Practices.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 SwachhBharat 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 | View File |

7.3.2 - Plan of action for the next academic year

The benchmarks for 2024-2025 focus on academic excellence, student development, faculty contributions, and institutional growth. Key academic targets include achieving a graduation

rate of ?90% and ensuring UG/PG pass percentages meet prescribed thresholds for all years. Departments aim for 30% student enrollment in Swayam-NPTEL courses annually and mandatory internships/field projects for all students. Additional objectives include conducting value-added courses, publishing UG/PG research in reputed venues, and fostering GATE preparation with a 20% participation target.

Placements are prioritized with a goal of 100% placement for eligible students, while at least 15 students should pursue higher studies abroad. Foreign language training, industrial collaboration, and innovative teaching methods are emphasized. Faculty members are expected to complete two online courses annually, publish in Scopus/SCI journals, and file patents, with funded research projects increasing by 10%.

Institutions will strengthen industry collaboration through consultancy services and establish Centers of Excellence for research. International conferences, one-week FDPs, and departmental workshops are mandated biennially. Co-curricular activities include sports camps, alumni engagement, and participation in innovation programs like IIC and MSME. Aiming for a 4-star IIC rating, MSME incubation, and NIRF ranking improvements, these benchmarks reflect a comprehensive roadmap for institutional success.