Yearly Status Report - 2019-2020

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 own campus	**Yes**
Phone no/Alternate Phone no.	**04652232560**
Mobile no.	**9842799973**
Registered Email	**info@sxcce.edu.in**
Alternate Email	**iqac@sxcce.edu.in**
Address	**Chunkankadai**
City/Town	**Nagercoil**
State/UT	**Tamil Nadu**
Pincode	**629003**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr. A. Milton**
Phone no/Alternate Phone no.	**04652232560**
Mobile no.	**9442602309**
Registered Email	**iqac@sxcce.edu.in**
Alternate Email	**info@sxcce.edu.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.sxcce.edu.in/wp-content/uploads/2020/11/AQAR-2018-2019.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.sxcce.edu.in/wp-content/uploads/2021/03/Academic-Calender-2019-2020.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.02**	**2017**	**12-Sep-2017**	**11-Sep-2022**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**29-Aug-2016**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

Staff orientation program on NBA SAR Preparation	22-Jul-2019 3	57

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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. C. Seldev Christopher	Technology Development	DST	2019 1095	1799200
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View Link]
10. Number of IQAC meetings held during the year :	**2**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View Uploaded File]
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

1. Oriented the UG programs Civil Engineering, Computer Science Engineering and Information Technology for accreditation by NBA. Vision, Mission, Program Educational Objectives, Program Specific Outcomes of the Departments of Civil Engineering, Computer Science Engineering and Information Technology have been updated. 2. Revised course file audit was introduced. 3. Laboratory works and central library were audited. 4. Applied for NBA accreditation of the programs Civil Engineering, Computer Science Engineering and Information Technology 5. Guidelines for the formation and conduct of Program Assessment and Quality Improvement Committee has been framed and disseminated.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Each faculty member has to complete two online courses, one in his/her technical area of expertise and another one in the area of teaching learning	Faculty members have obtained around 169 certificates even in the Covid19 pandemic affected academic year.
Each faculty has to attend one relevant FDP of one week duration per year in reputed institution during summer/winter vacation	Faculty members have attended around 390 FDPs, mostly online FDPs because of Covid-19 pandemic.
Departments have to motivate the students to complete online courses. 10% students of each department have to complete online courses and obtain certificates	43 students have completed online courses and obtained certificates.
MOODLE learning management system has to be installed and utilized	Moodle has been installed in the server and it has been used as LMS for 175 courses.
Each faculty member has to produce at least one e-content	281 e-contents have been created and available in public domain and Google Class Room.
Slow learners have to clear 1-st semester arrear courses before completing 4-th semester	66 students have cleared their first semester arrears.
SC/ST cell, Students Affairs, Outreach Program Committee have to take efforts to improve SC/ST students admission	10 SC/ST students enrolled in 2019-2020. We would like to improve further in the admission of SC/ST students.
GATE coaching has to be centralized and at least 5% of graduates have to qualify in GATE 2020	Centralized coaching for GATE was conducted. 68 students registered. We motivate all the students to write GATE and decided to conduct model GATE examination.
Staff members' link with industry need improvement	A few initial links have been established. We work to improve further.
Each department has to apply and obtain at least one major project, one minor project and one student project	One funded project by DST has been sanctioned. 13 projects have been applied. 12 minor and 17 student projects have been sanctioned and 20 applied.
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14. Whether AQAR was placed before statutory body ? Yes

Name of Statutory Body	Meeting Date
Academic Administrative Body	29-Jan-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	05-Feb-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	MIS is operating on the college automation software developed indigenously. It has management, principal, deans, HODs, faculty, staff and students login accounts. Information communication, inventory, policies, staff leave, faculty profile, cell activities, students outcome attainments, staff and students feedback, library related activities are done through and recorded in the automation software. New module to monitor students' discipline is created in the automation software.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Academic calendar with annual plan is prepared by the Principal and Dean-Academic in consultation with all the HODs. Based on the expertise of the individual teachers the courses are assigned by the HODs in the department meetings. Every course in charge prepares a course file which contains the following details: • College Vision, Mission, Slogan, Quality Policy, Objectives and Values • Department Vision, Mission, Program Educational Objectives, Program Outcomes and Program Specific Outcomes • Course Description, Objectives, Outcomes, PEO-Mission, CO-PO Mapping and CO-PSO Mapping • Syllabus with LTPC, Total Periods and References • Content beyond Syllabus • Additional References • Concept Map • Scheme of Evaluation, Course Plan and Target • Course Delivery Plan and Schedule of Instruction • Semester Plan for the Program/Department • Class Time Table • University Question Papers • Report of Second and Third Class Committee Meeting with Performance and Feedback Reports • Internal Assessment Question Papers with Answer Keys and Sample Scripts • Sample Assignments with Mapping to Outcomes • Materials/Documents Submitted by Students in Support of Skill Development • Materials Submitted by Students for Participatory Learning, Self Learning and Innovative Schemes • Notes and Slides Prepared by the Faculty Member • Feedback

on the Syllabus • Course Exit Survey • Outcome Attainment, Observations and Action Plans. Curriculum delivery is monitored by Principal, Dean-Academic and HODs. The Documentation is verified and audited by Assistant HODs with format and guidelines provided by IQAC.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Communication Skills Training Course	–	01/07/2019	2	Employability	Communication Skills
Circuits and Communication Level-1	–	01/10/2019	2	Entrepreneurship	Perspective Idea, Contextual Learning and Creativity
Advanced Arduino with IOT Level-2	–	19/07/2019	2	Entrepreneurship	Problem Solving and Designing
Advanced Arduino IOT and Raspberry Pi Level-3	–	19/07/2019	2	Entrepreneurship	Research and Product Making
Managing Change in Organizations	–	27/01/2020	6	Employability	Managerial Skill and Problem Solving
PHP with MySQL	–	25/11/2019	16	Employability	Web Designing
Oracle SQL and PL-SQL	–	25/11/2019	16	Employability	Design and Management of Database
Autodesk AutoCAD	–	25/11/2019	16	Employability	2D Drafting of Machines
Fusion 360	–	09/12/2019	16	Employability	3D Modeling and Product Development
Revit Architecture	–	25/11/2019	16	Employability	Building Information Modeling
PHP with MySQL	–	28/02/2020	16	Employability	Web Designing
Advanced Arduino IOT and Raspberry Pi Level-3 for	–	24/07/2019	2	Entrepreneurship	Research and Product Making

Final Years

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nill	Nil	Nill

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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nill	CBCS is in force for all programmes from 2018	Nill

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	3177	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Provided in the Attached File	Nill	2099

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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	8
BE	Computer Science and Engineering	13
BE	Electronics and Communication Engineering	30
BE	Electrical and Electronics Engineering	9
BTech	Information Technology	2
BE	Mechanical Engineering	16
MBA	Master of Business Administration	56
MCA	Master of Computer Applications	39
ME	Structural Engineering	1

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes

Teachers	Yes
Employers	No
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
Feedback is received from the stakeholders both manually and online. •Student and Teacher feedback about the syllabus is obtained by the course in charge and is analyzed in department meetings to enrich the course. •Feedback is taken from alumni on curriculum planning, development, curriculum enrichment and university curriculum. •All the feedback regarding the curriculum is internally analyzed in the department level meetings and the suggestions for introducing changes, if any, are forwarded to the university. •Since the quality of the teachers plays a major role for quality education, consistent efforts are being taken to update the knowledge of the faculty and enhance their quality in teaching and learning process based on the analysis of the feedback obtained from all the stakeholders.. •The quality of teaching, learning and evaluation processes is improved by obtaining Mid Semester Feedback and End Semester Feedback through college automation software from students. •The Mid Semester Feedback report is analyzed by the HOD, the general aspects of the feedback is discussed in the staff meeting and the faculty specific feedback reports are discussed with the faculty members to plan for improvements. •The End Semester Feedback reports are consolidated by IQAC and Submitted to the Principal and necessary actions are taken. •End Semester feedback questionnaire for Teaching Learning process has been revised during the academic year 2019-2020 to make better progress in outcome based teaching, learning and assessment in Theory, Practical and Project work. •Course Exit Survey is collected from all the students for each course to assess the indirect attainment of course outcomes. •For 2019-2020 passing out students, revised Student Satisfactory Survey is used and centralized Program Exit Survey is collected, the SSS and PES will be analyzed by the departments and necessary actions will be taken. •The feedback reports are analyzed and communicated to the university by the members of Board of Studies. •Alumni feedback is collected during the alumni meeting on 26th of December every year and during the Graduation Day to know what facilities they lacked, which the institution would have provided. •Parents' feedback reports are obtained in the parent teachers meeting and processed. •Feedback from faculty and staff about the management and administration is obtained every year through college automation software for continuous improvement. •Students and Staff members can also register their feedback and suggestions through suggestion boxes and also directly to the Principal or to the Management any time. •Feedback from recruiters and employers are used to prepare the next batch of students industry ready.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Nill	Provided in the attached file	870	608	576
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	432	175	59	13	88

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
160	160	456	38	0	160

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes, Students mentoring system is available in the institution: Every student is assigned as a mentee to a faculty mentor to look after the students academic and psychological well being. Each mentor is assigned around 15 students. Mentors closely follow their mentees. Mentors maintain Integrated Student Profile which consists of the students personal information, regularity details, discipline, performance in academic and other activities. The mentors submit the monthly report to the head of the department, the head of the department intern brings the report to the knowledge of the dean of student affairs and the principal. The monthly report consists of information updated in the integrated students profile file, students attendance, communications to parents and counseling details. Students who are irregular to classes and not performing well in the internal assessment tests are counseled by the mentors and also the mentors pass the information to the parents for necessary action. Mentors closely interact with parents during parent-teacher interaction meetings conducted once in a semester. The head of the department acts as the chief mentor and take care of all the mentoring activities in the department. The mentoring activities in the college are coordinated by the dean of student affairs and the principal. Counseling cell with external professional counselors is functioning actively in the college. External professional counselors are available in the college on Tuesdays and Thursdays. Students who need professional counseling are directed to the counseling cell.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2062	160	1:13

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
1	1	1	1	1

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies

Nill	Provided in the attached file	Nill	Provided in the attached file

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
Nill	Provided in the attached file	Provided in the attached file	Nill	Nill

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

•For theory courses, three internal assessment tests including one model test, three class tests and three assignments are the major assessment strategies used. •In addition to the above, seminar, quiz, discussion, case studies are also used to assess the students learning and the attainment of the outcomes. •For practical courses, experiment completion, record and observation maintenance, and model test are the components of the continuous internal evaluation system. •For project work, weekly reports, reviews and demonstrations are the parts of a continuous internal evaluation system. •During the time of pandemic, Google Classroom, Google Forms, Moodle and Google Meet are used to assess and evaluate students performance. •The outcome attainments are calculated using the college automation software. •These attainments are compared with the set target. •If the set targets are attained, the target for the next batch is improved. •If the set targets are not attained, actions are planned to reduce the gap and improve the outcomes attainments of the students. •The quality of the question papers of the internal assessment test is verified by IQAC members. •The quality of answer script evaluation is verified by assistant HODs and PG coordinators.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

•The college prepares handbook which consist of the academic calendar. •The academic calendar is prepared by the Principal and Vice-Principal in discussion with HODs and inline with the schedule released by the university and it is distributed among staff members for course plan preparation and the calendar is uploaded to the college website so that the stakeholders can refer it. •The handbook is distributed to students and staff members. •The academic calendar consists of working days and academic activities like internal examinations. •The handbook consists of information about the college, college vision and mission, administration, governing body, members of staff, rules and regulations, general regulations, facilities in the college, service bodies, professional bodies, nonprofessional bodies functioning in the college, details of different scholarship schemes, key aspects of Anna University regulations, academic schedule and intercom numbers. •The academic schedule provides details about reopening, holidays, examinations, department association activities and other various co-curricular and extracurricular activities.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the

institution are stated and displayed in website of the institution (to provide the weblink)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
Provided in the attached file	Nill	Provided in the attached file	618	609	98.5

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Students Research Projects (Other than compulsory by the University)	180	Tamil Nadu State Council for Science and Technology	0.12	0.12
Major Projects	1095	DST	17.99	8.84
Students Research Projects (Other than compulsory by the University)	365	NMEICT MHRD	0.4	0

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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Employability Challenges Faced by Youngsters of India in COVID 19 Scenario and recommended Solutions	ICT Academy and SXCCE	12/06/2020
Industrial Impact of	ICT Academy and SXCCE	11/06/2020

FUSION 360			
Data Science and its Application	ICT Academy and SXCCE	05/06/2020	
Artificial Intelligence	ICT Academy and SXCCE	29/05/2020	
Industry Expectation from Students	ICT Academy and SXCCE	18/05/2020	
Developing Interpersonal Skills	ICT Academy and SXCCE	14/05/2020	
Campus to Corporate	ICT Academy and SXCCE	13/05/2020	
Employability Skills for the Future	ICT Academy and SXCCE	12/05/2020	
Strategic Thinking and Effective Decision Making and Nurturing the Graduates in Industry Readiness	ICT Academy and SXCCE	14/12/2019	
Youth Talk 2019	ICT Academy and SXCCE	17/09/2019	
An Entrepreneur for Every Family and An Auditor for Every Village	Tamil Nadu Small and Tiny Cottage Entrepreneurs Association and SXCCE	14/09/2019	
Skill Training in Technology and Soft Skills	ICT Academy and CSS Corp in SXCCE	28/08/2019	

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Most Popular Project	S. Shambu V.N. Pranav S. Vivek and P. Stalin Vijay	KPIT Sparkle	23/02/2020	Student/National
Territory Topper in National Communication Skill	S. Angelo Ajesh	ICT Academy and STEP	26/02/2020	Student/National
Outstanding Contribution towards SCILAB Projects	Dr. Jain B Marshel	FOSSEE, IIT Bombay and MHRD, Government of India	07/03/2020	National
Energy Audit	Branesh K T	IGEN-Green9 Energy Saving Awareness Club	03/10/2020	Student/National
Energy Audit	Dhinisha H	IGEN-Green9 Energy Saving Awareness Club	03/10/2020	Student/National
ICT Academy Center of Excellence for Design Powered by Autodesk	Institute	ICT Academy and Autodesk	11/12/2019	National

3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year					
Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Nil	Nil	Nil	Nil	Nill
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	13

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Computer Science and Engineering	2
Electrical and Electronics Engineering	4
Electronics and Communication Engineering	1
Mechanical Engineering	2

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Civil Engineering	3	1.21
International	Computer Science and Engineering	5	0.42
International	Electrical and Electronics Engineering	8	0.76
International	Electronics and Communication Engineering	13	1.1
International	Information Technology	3	0.5
International	Mechanical Engineering	5	2.68
International	Master of Computer Applications	3	0.68

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mechanical Engineering	11
Humanities and Sciences	29

Master of Computer Applications	3
Master of Business Administration	1
Information Technology	11
Electronics and Communication Engineering	13
Electrical and Electronics Engineering	8
Computer Science and Engineering	27
Civil Engineering	11
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Attached	Attached	Attached	Nill	23	Attached	18
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Attached	Attached	Attached	Nill	23	18	Attached
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	59	102	70	58
Presented papers	73	1	0	0
Resource persons	21	11	2	6
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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Provided in the attached file	Provided in the attached file	88	965
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NSS	Best NSS Female Volunteer Award	Indira Gandhi NSS Awards	1
NCC	Outstanding NCC Cadet Award	11 TN BN NCC Nagercoil	1
NCC	Recognition for Covid-19 Duty	Superintendent of Police, Kanyakumari District	11
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Orphanage Visit	IEEE-WIE	Visiting and Helping Orphans	3	21
Rain Water Harvesting	FCEATP	Rain Water Harvesting Rally	3	60
Industry Institute Interaction	Qualcomm Wireless Technology and Innovation	Industry Institute	1	48
Alcoholism and Drug Abuse	Jesuit Ministry to Alcohol and Drug Dependents	Awareness on Alcoholism and Drug Abuse	1	212
IEEE Xtreme 13.0	IEEE and SXCCE	Coding Skill	2	14
Pongal Celebration in Ambedkar Nager	SXCCE	Linking with the nearby village	3	40
Surgical Strike Day	11 TN BN NCC Nagercoil	Awareness	1	60
Swasth Bharath	11 TN BN NCC Nagercoil	Cycle Rally	1	18
NCC Day	11 TN BN NCC Nagercoil	Appreciating the Cadets	3	80
International Yoga Day	11 TN BN NCC Nagercoil	Yoga	9	77
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Nil	Nil	Nil	0
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Training on Roller Bearing Maintenance	Ramco Cements Ltd.	06/01/2020	18/01/2020	3
Internship	Junior Programmer Trainee	Yuvatech Solutions Pvt. Ltd. Thiruvananthapuram	03/01/2019	03/07/2019	1
Internship	Summer Internship Program	n th Soft, Chennai	27/05/2019	25/06/2019	1
Project Work	Productivity Improvement in Brakeline Air Leak Testing Machine	Ashok Leyland, Chennai	07/01/2020	28/01/2020	1
In Plant Training	Practical Training on Car Engines	Goodwin Motors, Chennai	06/01/2020	12/01/2020	2
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Valli Steels and Industries Pvt. Ltd. Aralvaimozhi	03/01/2020	Student Training	1
Cisco and ICT Academy	26/02/2020	Networking	92
Palo Alto	24/01/2020	Courses on Cyber Security	78
Federation of All Civil Engineers Association of Tamilnadu and Puducherry	24/08/2019	Technical Consultancies and Workshops	40
ICT Academy and CSS Corp	20/08/2019	Employability Skill Development Training	50

Kollo University, Kombolcha Institute of Technology, Dessie, Amhara, Ethiopia	02/12/2019	Research	1
Fortinet	06/05/2020	Network Security	0
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
235.5	229.55

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Newly Added
Others	Newly Added
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
XLA Software created by the College	Fully	1	2003

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	27745	7707659	325	281914	28070	7989573
Reference	8745	2665783	5	1799	8750	2667582

Books						
e-Books	25536	1413925	14630	13570	40166	1427495
e-Journals	3714	12043273	636	1374133	4350	13417406
Digital Database	25536	1413925	6000	5900	31536	1419825
CD & Video	1579	0	10	0	1589	0
Journals	1133	640149	25	42655	1158	682804
[View File](#)						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Attached	Attached	Attached	Nill
[View File](#)			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	1060	15	1060	3	1	1	9	150	0
Added	15	1	15	0	0	0	0	10	0
Total	1075	16	1075	3	1	1	9	160	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

160 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
AV Hall	https://www.sxcce.edu.in/

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
56.5	6395838	50.67	4814274

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

- In laboratory, based on the recommendation of faculty member the equipment's

are provided to the students. Students return the equipment after doing the experiments. Lab assistant is checking the equipment before issuing to the students and after returning by the students. If damage is found the details are recorded in damage register. Laboratory equipment's are periodically maintained by lab assistants and the details are entered in maintenance register. During the maintenance check-up, problems if any found, are rectified by the lab assistants. If the problems are beyond the scope of servicing by the lab assistant, the service is done by professional technicians by obtaining proper permission from the management. •In library, UG students can borrow 3, PG students can borrow 4 and faculty members can borrow 6 books. Students are allowed to borrow books for duration of 2 weeks. Book search, issue and return are done through library automation software. Walk in and Walk out are recorded electronically in E gate using barcode reader. Library hours are used to improve the reading habit of the students. Students and staff members access e contents using the login account provided to them. The automation software is maintained by software cell. •Indoor stadium is open for students and public from 6 a.m. to 8 a.m. in the morning and 4 p.m. to 6.30 p.m. in the evening. Students enter the stadium with sportswear, non marking shoes for shuttle court. Eatables are not allowed inside the indoor stadium and gym. Maintenance and cleaning works are carried out weekly, monthly and yearly according to the need. •Periodic maintenance of the computers in the laboratories are done by the lab assistants and the computers in the office and other places are done by technical assistant of the computer center. Maintenance of all the computers in the college is coordinated by system administrator. •Class rooms are cleaned by people of hygienic department. Laboratories, class rooms and corridors are maintained free from cobweb by department assistants and lab assistants. •Electricity, power backup, AC, water and civil maintenance works are carried out by maintenance department.

https://www.sxcce.edu.in/wp-content/uploads/2021/03/Procedures.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Attached	123	7730500
Financial Support from Other Sources			
a) National	Attached	761	11397310
b)International	Attached	0	0
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Attached	Nill	11334	Attached
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited	Number of benefited	Number of students who	Number of studentsp placed

		students for competitive examination	students by career counseling activities	have passedin the comp. exam	
2019	Attached	216	639	0	56
2020	Attached	202	0	0	0

[View File](#)

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
32	32	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Attached	2831	380	Attached	277	5

[View File](#)

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
Nill	36	Attached	Attached	Attached	Attached

[View File](#)

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
TOFEL	1
Any Other	1

No file uploaded.

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Attached	Attached	160

[View File](#)

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student

| Nill | Attached | Nill | 9 | 9 | Attached | Attached |

View File

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

•Students have active representation on academic and administrative bodies and other committees of the Institute. •Student representatives take part actively in all academic and co-curricular activities. •The student representatives participate in the class committee meeting held periodically. •Also, Students have strong representations in all cultural and sports and games committees and take active role in organization and management of events. •Department associations, professional bodies such as IEEE Education Society, Ensav Club, Robotics Club, IEEE Student Branch, IEEE-WIE, IET, ISHRAE, ACM, ACE, ELECTROS, SEE, BIGITZ, XACA, REACH, FACEATP and MEGX and non-professional bodies such as YRC, NSS, NCC, Tamil Mantram, Eco club, Womens Cell, Konverz, Photography Club, Jyothis etc are available in the college whose activities are organized by the students. • Each association has student secretary, joint secretary, treasurer and office bearers guided by faculty advisor. •Students actively involved in conducting symposiums, conferences and seminars for which most of the activities are restituted by them. •The above activities enhance their communication skills, management skills, leadership skills, team-work, time-management, resource management skills and builds confidence in each student.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

St. Xavier's Alumni Association was founded on 3rd April 2005 by Rev. Fr. C. Amirtha Raj, the founder trustee and the then Correspondent of St. Xavier's Catholic College of Engineering. Later it was registered as a trust. The deed of trust was executed on 21st July 2017 by Rev. Fr. Dr. M. Maria William, the present patron of the trust and the government registration number for the Alumni Association is BKIV 72/2017. In this academic year a new chapter has been inaugurated for the Nagercoil zone. Current Board of Directors: 1. Patron: Rev. Fr. Dr. M. Maria William 2. President: Mr. Rajesh Anbu 3. Working President: Dr. J. Maheswaran 4. Vice President: Mr. A. Aswin 5. Secretary: Mr. S. Frank Stephen 6. Treasurer: Mr. R. Rajesh

5.4.2 – No. of enrolled Alumni:

8760

5.4.3 – Alumni contribution during the year (in Rupees) :

21500

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meet on 26-12-2019 Alumni meet of Nagercoil Chapter on 29-02-2020 Department Alumni Meet on 01-2-2020

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

•The institution is practicing decentralization and participatory management as given below •Governing council is the management body which plans, monitors and approves key decisions taken by the college administration. •Principal, the

head of the institution is the in-charge for all academic and non-academic activities and students in the college. •Vice principal assists the Principal in the healthy administration of the college. •Dean of academics looks after all the academic activities in the college. •Coordinator of IQAC is the in-charge for quality improvement in academic and administrative activities and accreditation activities. •Dean for student affairs is the in-charge for non-academic activities of the students including, admission, scholarship, discipline, welfare etc. •Dean for research is the in-charge for empowering the research activities through various departmental coordinators. •Heads of departments are the in-charge for all activities and students in their department. •Assistant HODs assist the HODs in the audit of course file, attendance assessment record, internal test answer scripts and class monitoring in the college. •PG Coordinators for PG programmes verify and audit course file, attendance assessment record, internal test answer scripts and class monitoring in the college. •IQAC members verify and audit the internal question papers. •Different cells are formed for the benefit of the students faculty members act as conveners of these cells. •Placement officer along with representatives from each department arranges and conducts placement activities in the college. •Class committee chairperson of a class conducts class committee meetings and takes care of all the needs of the class. •Mentors are the local guardians for about 15 to 20 students. •They meet the students regularly to take care of their personal and academic wellbeing. •Department association faculty advisors plan and arrange association activities such as training program, seminar, symposium and conference. •Exam cell coordinators help the smooth conduct of internal examination activities in the college. •Faculty members are acting as conveners and coordinators of seminars, workshops, symposium, ad-hoc committees and conferences organized in the college. •Formation of Board of studies, Academic council, Governing body and Finance committee are in the anvil in view of obtaining autonomous status from UGC.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	•Admission process is transparent, based on the rules and regulations of Tamil Nadu Government and Anna University. •In the 50 UG Government single window system, the criteria are, passing in the qualifying examination and admission is made using cut-off marks. The Cut-off mark is calculated out of 200 from the marks secured in Mathematics, Physics and Chemistry in the ratio of 1:0.5:0.5 respectively. •For PG a pass in the appropriate undergraduate program and marks scored in the Tamil Nadu Common Entrance Test are the mandatory criteria for admission. •In the management quota for UG and PG, a pass in the appropriate undergraduate program and marks scored in the Common Entrance Test conducted by the Self-Financing Consortium are

	the mandatory criteria for admission. Admission is based on the marks scored in the CET. •Institute provides freeship by new institutional scholarship scheme, the St. Xavier's Merit Scholarship Scheme to provide scholarship to meritorious UG students.
Industry Interaction / Collaboration	•Four MOU were signed to train students and staff. •Training and certification on "Database Designing using Oracle SQL, PL/SQL" was conducted by Oracle on 25-11-2019. •Four Training and certification programs were conducted by Autodesk. •11 programs on recent trends in engineering fields were conducted by the resource persons from industries. •The institution encourages staff members to establish a link with industry.
Human Resource Management	•Detailed roles and responsibilities of all the personnel working in the college are specified in the manual. •Performance Based Appraisal System is followed. •Faculty members are encouraged with cash awards for centum or near centum results and for publication in SCI indexed journals. •Staff members who avail less leave and permission are awarded with cash. •Suggestions and grievances are collected by the management and processed for necessary actions.
Library, ICT and Physical Infrastructure / Instrumentation	•Library audited was coordinated by IQAC and conducted Library Advisory Board and necessary corrective actions are taken. •College library is automated with barcode system. •The institution is a member of National Digital Library (NDL) and Developing Library Network (DELNET) •ICT usage in teaching and learning is encouraged. •All the computers are connected to internet online classes are conducted through Google Meet. •Internet bandwidth is increased to 160 Mbps. •SBI connect facility is established for students to pay their fees online.
Research and Development	•Faculty members have prepared a research plan and submitted to HOD and Dean-Research. •Research groups have been motivated to work towards research schemes, funded projects, products and patents. •Seven departments are the research centers of Anna University Chennai with 135 research scholars. •Publications in SCI indexed journals

	are awarded with cash prize by the institute. •Worked with the benchmark of "Each department has to apply and obtain at least one major project, one minor project and one student project". 18 projects have been applied and one project has been sanctioned by DST. Around 29 small and student projects have been sanctioned.
Curriculum Development	•SXCCE is affiliated to Anna University and follows the Curriculum planned and designed by the Anna University. •Each department checks the compliance of the university syllabus in attaining the stated outcomes. •If curricular gaps are identified, content beyond syllabus is framed to fill the gap. •Certificate courses, Skill development and value added programmes are conducted to fill the identified curricular gaps. •Extra syllabus is planned by each faculty member for their course to promote lifelong learning. •Guest lectures by experts from academic institutes and industries, seminars, workshops, conferences and industrial visits are arranged to enhance the attainment of the stated outcomes.
Teaching and Learning	•Teaching Development Cell is restructured under Dean-Academics and one faculty member from each department. •72 online courses on teaching-learning have been completed by faculty members. •Google Meet is used for conducting online classes especially during the Covid-19 pandemic. •Google Class Room is used as LMS to communicate lecture videos and materials to the students and to conduct assessment tests. •175 instances of MOODLE usage and 281 e-contents are created and used in 2019-2020. •43 students have completed online courses.
Examination and Evaluation	•Exam Cell is the in-charge of conducting all internal examinations, class tests and university examinations in the college. •The Evaluation is randomly verified by AHODs. •Continuous evaluation of students' performance is ensured by regular class tests, internal examinations and assignments. •During the pandemic period, Google Classroom and Forms are used for conducting examinations and evaluating students' performance. •Attainments of

outcomes are calculated using college automation software. •Closing the quality loop around COs is done using Excel sheet prepared by IQAC. •Closing the quality loop around POs is done by the department's assessment and quality improvement committee.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Planning and Development	College automation software is used effectively in planning and development activities.
Administration	•Students Discipline monitoring facility is created in the college automation software. •Sending circulars, recording college and cells activities are done with the help of the automation software. •All the cell activities in the college are recorded in the college automation software. •Staff members leave application and approval, also attendance of staff members and students are maintained by the software.
Finance and Accounts	•Students can view their fee details using their login account in the college automation software. •SBI connect facility is used for students to pay their fee. •Pay roll and all other college accounting are maintained electronically.
Student Admission and Support	•Students' admission process is maintained in the college automation software. •Information is disseminated to the students through website and college automation software. •Feedback and grievance collection is done through the website and college automation software.
Examination	•Internal assessment question papers are submitted through college automation software. •During 2019-2020 even semester, online examinations were conducted using Google class room and Moodle. •Internal marks are entered and analysed using college automation software. •Marks are sent to the parents as SMS from the college automation software.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/	Name of the	Amount of support

		workshop attended for which financial support provided	professional body for which membership fee is provided	
2019	Provided in the attached file	Provided in the attached file	IEEE and IET	122541

[View File](#)

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Staff orientation program on NBA self-assessment report preparation	Staff orientation program on NBA self-assessment report preparation	22/07/2019	24/07/2019	45	12
2020	How to prepare project proposals applying to funding agencies	Nil	14/02/2020	14/02/2020	68	Nill
2020	How to use Zoom software	How to use Zoom software	25/04/2020	25/04/2020	97	9
2020	Conducting classes using Google Classroom	Conducting classes using Google Classroom	02/05/2020	02/05/2020	102	10
2020	Seminar on Moodle	Seminar on Moodle	07/05/2020	07/05/2020	94	9
2020	Language skill for staff	Nil	22/05/2020	24/08/2020	160	Nill

[View File](#)

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Attached	821	Nill	Nill	Nill

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
1	1	3	3

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
•Festival advance of Rs. 5,000/- for staff members are given and payable in easy 10 instalments before the financial year ends. •Marriage leave is provided to all staff members. •Employee Provident Fund, HRA and medical allowance are provided to all the staff members. •Staff club is permitted to function in the college which undertake financial help to the needy staff members. •Gratuity is provided.	•Festival advance of Rs. 5,000/- for staff members are given and payable in easy 10 instalments before the financial year ends. •Marriage leave is provided to all staff members. •Employee Provident Fund, HRA and medical allowance are provided to all the staff members. •Staff club is permitted to function in the college which undertake financial help to the needy staff members.•Rs. 25000 was given to a security for his medical expense. •The class IV employees are given free uniforms in the college. •Employee Provident Fund facility is provided to all the staff members. •Employee State Insurance is provided for employees whose Basic Pay Grade Pay DA is less than Rs. 15000. Gratuity is provided. • Torch lights and shoes are provided to security staff members.	•Institute provides freeship by institutional scholarship scheme, the St. Xavier's Merit Scholarship Scheme to provide scholarship to meritorious UG students. •Medical insurance is provided to the students, four students were supported with Rs.1,84,205 for medical expense. •Financial Assistance from State /Central/Other National agencies is provided to students •During 2019- 2020, 123 students have received Rs. 77,30,500 as scholarship from the college, 68 students have received Rs. 41,03,500 through Institutional Meritorious Scholarship for poor students. 55 students have received Rs. 36,27,000 through St. Xavier's Merit Scholarship Scheme. •During 2019- 2020, 761 students have received Rs. 1,13,97,310 as scholarship from State /Central/Other National agencies. 453 BC/MBC students have received Rs. 22,07,310. 257 Merit cum scholarship students have received Rs. 64,25,000. 51 SC/ST students have received Rs. 27,65,000.

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

•Internal audit is done by the audit committee of the Governing Council every

month. •The Charted Accountant conducts the annual external audit every year.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Nil	0	NA

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6.4.3 – Total corpus fund generated

9127170

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	CE, CSE, IT and HS departments were audited by Dr. V. Sadasivam on 21 and 22-01-2020.	Yes	IQAC
Administrative	Yes	Audited by Dr. V. Sadasivam on 21 and 22-01-2020.	No	Nill

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

•PTA executive committee was formed on 23-11-2019. •General body meetings are conducted in the month of September and February for 2nd year, 3rd year and 4th year parents and on November for 1st year parents. •PTA executive committee has decided to give awards for the "best leader award" one from each department and "best sportsman award" for students who excel above zonal level and state level in sports.

6.5.3 – Development programmes for support staff (at least three)

The following training programs were conducted for a part of nonteaching staff members 1) How to use Zoom software was conducted 2) How to use Google Classroom 3) How to use Moodle 4)NBA accreditation

6.5.4 – Post Accreditation initiative(s) (mention at least three)

•Applied for NBA accreditation for the UG programs Civil Engineering, Computer Science and Engineering and Information Technology. •Applied for grant of autonomy status from UGC. •Laboratory works and central library were audited

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Laboratory work and library audit	21/09/2019	11/11/2019	15/11/2019	22
2019	Updating student feedback questionnaire	21/09/2019	21/09/2019	15/10/2019	13

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Win Mech - To Promote Girls to Choose Mechanical Engineering	19/10/2019	19/10/2019	1200	0

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
•Biogas plants at Boys and Girls hostel produce cooking gas from kitchen waste. •Six percentage of power requirement of the College is met by the renewable energy source of 11 kVA solar panel. •Research with gasifier plant that converts workshop wooden wastes and other biomass into producer gas, which can be used in brick manufacturing industries. •Workshop on Paper Bag Creation was conducted by ECO Club to motivate the students to know about recycling. •Energy Saving awareness program was conducted for first year students.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Rest Rooms	Yes	1
Scribes for examination	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadva	Number of initiatives taken to engage with and contribute to	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff

	ntages	local community					
2019	3	39	28/07/2019	42	Attached	Attached	18806

View File

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Handbook	01/07/2019	Discipline committee under the coordination of Dean-Student Affairs monitors and takes appropriate steps.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Provided in the attached file	10/08/2019	22/04/2020	2508

View File

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Eco club students prepared seed balls. Eco club organized tree plantation programs and planted more than 100 plants. Electronic version of circulars are used to reduce paper use. Plastic usage is not encouraged inside the campus. EnSAv club observe energy conservation day.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Comprehensive Value Education System for the Total Development of the Students. Resource Development for Teaching and Learning - Comprehensive Course File System. Innovation in Teaching-Learning - Continuous Improvement in Teaching Methods and Students' Lifelong Learning.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://www.sxcce.edu.in/wp-content/uploads/2021/02/Best-Practices.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

We consider 'developing a technically empowered humane society' as our prime area that is distinctive to our vision, priority and thrust. We presume every technical institute like us is deeply indebted to the society from where it emerges and depends on the same society for its survival. 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 the domain of our expertise. Developing a technically empowered humane society could be evidenced in the every activity of our institute both, within and outside our campus. To quote some, Our college anthem, an anthem of motivation to our staff and students, which is played in every program conducted within the campus. The verses of this anthem read as such, "We Promise, Promise, Promise to serve humanity". The very purpose of this technical advancement is served when the ultimate benefits of these

technologies reach every section of the society. We are no exception to this as we are committed to taking the benefits of technical education to the society so as to empower them. Our sister concern Hiltek Pvt. Ltd. teaches robotics and automation to school students of our district. We have adopted 4 villages to serve them under Swachh Bharat Scheme. We provide computer literacy training to the children of adopted villages in our laboratories. We conducted computer education programs for the High school and Higher Secondary school teachers at our campus. We conducted a training program for the heads of schools in the field of computer and engineering. We conducted a computer training program for parish priests of our diocese. Our Outreach Cell team celebrated children's Day at the adopted village and organized a computer literacy program. Our college driving school provides four wheeler driving training for the students and people from nearby villages at minimal cost and facilitates to get a driving license. Our Electrical Department conducted energy audit at nearby villages and organized Energy Saving camp to educate how to overcome energy shortfall. Our NCC and NSS teams are focused on serving humanity by means of visits to orphanage, Old age home and organized programs at schools for the Mentally Retarded students and camps at tribal villages. 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. Once technology was a distant dream for human beings Today human beings without technology are a dream we can't dream of. Every technology is to serve the society for its betterment. We are intuitively committed to bridge the gap between technology and its use to the society. We strongly believe that this act of empowerment makes it more distinctive to our vision. This is our thrust we strive for now and in the days to come.

Provide the weblink of the institution
https://www.sxcce.edu.in/wp-content/uploads/2021/03/Distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

The Benchmarks set for the Academic Year 2020-2021: Faculty:- In order to enhance the leadership skills, faculty members are asked to complete one online course on leadership College arranges a workshop for faculty members for Bloom's taxonomy based teaching so as to train the students on higher order thinking. Faculty members are asked to do self SWOC analysis and attend FDP as per the analysis. Students Support and Performance:- Scholarship: Database of all Government scholarships (from MHRD, AICTE etc.) be created, students shall be informed and appropriate actions shall be taken for students to apply and benefit. Online Courses: At least 15 of students complete online courses and obtain certificates. Academic Performance: Graduation rate be greater than or equal to 90. Minimum expected UG pass percentages are Final Year 95 for subject and 90 for class Third Year 90 for subject and 80 for class Second Year 80 for subject and 70 for class First Year 80 for subject and 70 for class Placement and Entrepreneurship: Placements of master degree students be improved. Institute starts incubation and innovation center. Departments prepare at least two students to start startups. GATE and IES Examination: All the final year B.E./B.Tech. students are to be motivated to write GATE examination. GATE model examination be conducted every year in the month of December. At least 10 of graduates qualify in GATE and 5 in IES examinations. Higher Study: Departments take efforts to increase the number of students opting for higher studies. Research:- Departments of MBA, Mathematics and Chemistry become research centers. Institute sets 1 Crore as the project funding target. Center of Excellence:- Departments start center of excellence. Accreditation:- MBA and M.E. Structural Engineering programs can prepare for NBA accreditation and apply for accreditation in the academic year 2021-2022. MCA raise the standards to the level of accreditation by NBA. Institution is preparing for autonomous status from UGC.