



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	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

<b>2. Institutional Status</b>	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
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

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://www.sxcce.edu.in/wp-content/uploads/2019/07/SXCCEAQAR-2017-2018.pdf">https://www.sxcce.edu.in/wp-content/uploads/2019/07/SXCCEAQAR-2017-2018.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://www.sxcce.edu.in">http://www.sxcce.edu.in</a>

<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.02	2017	12-Sep-2017	11-Sep-2022

<b>6. Date of Establishment of IQAC</b>	29-Aug-2016
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**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
Faculty orientation program on Outcome Based	20-Jun-2019 3	154

Learning, Methods and Strategies		
Faculty orientation program on Outcome Based Education in Engineering, Outcome-Assessment-Evaluation	06-Jun-2019 2	155
Planning meeting with external experts	04-Jun-2019 1	15
Short seminar on Outcome Based Education	08-Mar-2019 0.5	28
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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
Nil	Nil	Nil	2019 00	0
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	4
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	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

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

UG programs Electrical and Electronics Engineering, Electronics and Communication Engineering and Mechanical Engineering have been granted provisional accreditation by NBA under Tier II category with a validity from 2018 2019 to 2020 2021. In order to improve the teaching quality of faculty members, they were motivated to complete online courses, more than 170 courses have been completed by faculty members. A tremendous increase in online alumni profile and feedback entry through college website is noticed.

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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 attend one online course and produce certificate	More than one hundred and seventy certificates have been produced by faculty members by completing online courses
There shall be 20% improvement in the number of faculty development programs attended by staff members in other reputed institutions	More than two hundred and thirty instances of faculty attending and benefitting from FDP have been recorded
Each department has to identify a minimum of 5 online courses suitable for their students, and motivate the students to complete and obtain at least one certificate	Students undergoing online courses is increasing
Admission of SC/ST students shall be improved by 25%. The strategy for the same shall be planned and executed by Outreach Program Committee	A marginal improvement over last year is noticed
In order to improve performance of students in competitive examinations, central coaching has to be implemented by student affairs. A minimum of 10% increase is expected in the numbers of student clear GATE, CAT, MAT etc.	GATE and UPSC coaching is centralized under the guidance of Dean-Student Affairs. More students are appearing for the competitive examinations
Mentoring activity has to be improved further to develop the students and increase the academic performance. Mentors need to meet and discuss with their mentees 4-5 times in a semester	Monitored by Dean-Student Affairs mentors closely follow their mentees towards improvement in mentees' academic performance and attitude
Numbers of alumni update their progression details and complete feedback in the college website need to be improved by the coordination of departments and alumni cell. In total, there can be a minimum of 400 online entries is expected	More than three hundred and sixty alumni have entered their feedback
Research projects	Under the coordination of DeanResearch, patents and projects have been applied. Fifty thousand conference sponsorship has been obtained from CSIR. Drafting Apparatus design registration has been done with patent office.

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**14. Whether AQAR was placed before statutory**

Yes

body ?					
<table border="1"> <tr> <td>Name of Statutory Body</td> <td>Meeting Date</td> </tr> <tr> <td>Management</td> <td>07-Nov-2019</td> </tr> </table>		Name of Statutory Body	Meeting Date	Management	07-Nov-2019
Name of Statutory Body	Meeting Date				
Management	07-Nov-2019				
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	2018				
Date of Submission	08-Jan-2018				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description 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.				

## 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 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: Vision and Mission of the college and Department, Program Educational Objectives, Program Outcomes and Program Specific Outcomes. Course Description, Objectives, Outcomes and Mappings. Syllabus with References. Curriculum gap and Content beyond Syllabus. Concept Map. Scheme of Evaluation, Course Plan and Target. Course Delivery Plan and Schedule of Instructions. Semester Plan, Time Table and University Question Papers. Implementation of Content beyond Syllabus. Implementation of the Course Plan. Second and Third Class Committee Details with Performance and Feedback Reports. Internal Assessment Question Papers with Answer Keys and Sample Scripts. Sample Assignments with Mapping to Outcomes. Materials Submitted by Students for Participatory Learning, Self Learning and

Innovative Schemes. Notes and Other Materials. Feedback on the Syllabus. Course Exit Survey. Outcome Attainment, Observations and Action Plans.

### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Entry Level Robotic Research Program		09/07/2018	9	Employability and Entrepreneurship	Programming, Testing, Critical thinking
SQL and PL/SQL Programming		14/06/2018	5	Employability	Query language development ability
Web Designing and Scripting		02/07/2018	10	Employability	Web designing
Communication Skills Training		02/07/2018	11	Employability	Communication skills
Quantitative Aptitude		02/07/2018	11	Employability	Problem solving
Digital Marketing		18/12/2018	4	Employability	Digital marketing

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
PhD or DPhil	Physics	25/04/2019
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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
BE	CE CSE EEE ECE IT ME	02/07/2018
ME	CEM SE CSE CI PED AE CS ME CN EE	02/07/2018
MBA	MBA	02/07/2018
MCA	MCA	02/07/2018

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

	Certificate	Diploma Course
Number of Students	2888	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
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Health Threats to Women in Future	26/03/2019	40
Workshop on Personal Career Profiling	13/02/2019	1020
Hands on Workshop on Electrical Design	09/02/2019	56
AWS Certified Cloud Practitioner	28/01/2019	51
Network Protocols	24/01/2019	79
Seminar on IOT	29/11/2018	50
Awareness on Casting Vote	20/11/2018	32
PHP Frame Work	20/11/2018	289
Dreadful Impact of Mobile Phone Usage	31/10/2018	50
Seminar on How to Do Preliminary Energy Audit	17/10/2018	106
Workshop on Arduino	13/10/2018	10
Gender Sensitization	11/10/2018	500
You Tube Partner Program	09/10/2018	48
Seminar on Fundamentals of Rocket Propulsion	06/10/2018	100
Workshop on Control of Power Electronics Converter	04/10/2018	46
Surgical Strike	29/09/2018	61
Seminar on Power System Stability	29/09/2018	56
Power Seminar on Machine Learning	28/09/2018	130
Seminar on Protection System	17/09/2018	61
Seminar on Control System	15/09/2018	47
Training on Photoshop	15/09/2018	41
Matlab Programming	14/09/2018	50
Legal Literacy and Awareness	08/09/2018	150
College Facilities and Antiragging Awareness	03/09/2018	360
Seminar on Nuclear Energy Technologies	21/08/2018	165
Workshop on IOT with Arduino	21/08/2018	42
Cancer Awareness	18/08/2018	70
Land Surveying Methods	18/08/2018	55
Amazon Web Services	06/08/2018	41

Python Programming	04/08/2018	35
Current Job Scenario	04/08/2018	365
Training on Soft Skills	04/08/2018	350
Seminar on Robotics and Automation	03/08/2018	112
Program on Carrier Launch	31/07/2018	56
Seminar on How to Do Project	25/07/2018	75
Software Training on Inventor	17/07/2018	118
Bridge Course	16/07/2018	210
Logic Building	16/07/2018	103
Seminar on Fundamentals of Mechanical Engineering	05/07/2018	112
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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	65
BTech	Information Technology	9
ME	Structural Engineering	49
ME	Construction Engineering and Management	41
MBA	Business Administration	53
MCA	Master of Computer Applications	2
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### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
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
<p>Feedback is received from the stakeholders both manually and online. With the help of various bodies, the feedback from the stakeholders on the curriculum is being obtained and suitable measures are taken to improve the same with appropriate analysis. 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. An effective feedback mechanism is used to measure and improve the quality of the</p>



faculty members. The development programs for the staff and the strategies for quality enrichment are planned based on the analysis of the feedback obtained from all the stakeholders. The quality of teaching learning and evaluation process 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 for necessary action. All the feedback regarding the curriculum is internally analyzed in the department level meetings and the suggestions for introducing changes are forwarded to the university. Student and Teacher feedback about the syllabus is obtained by the course in charge and is analyzed in department meetings to enrich the course and communicated to the university. Feedback is taken from alumni on curriculum planning, development, curriculum enrichment and university curriculum. The feedback reports are analyzed and communicated to the university by the members of Board of Studies. Exclusive exit feedback is collected from all outgoing students to suggest improvement for quality enhancement. 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. Staff members can also express their feedback and suggestions through suggestion box and also directly to the Principal or to the Management any time. Feedback about our students is obtained from the recruiters to know the difference between the company's expectation and available quality of the students in order to prepare the next batch of students industry ready. The Placement Cell always maintains a good relationship with the organizations in which the alumni are placed and the employer feedback is obtained from HR Personnel and other senior officials of the organization. Based on the employer feedback, skill oriented training are given to students through Placement Cell, Training Cell (CETA).

## **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
BE	Civil Engineering	60	43	43
BE	Computer Science and Engineering	120	95	95
BE	Electrical and Electronics Engineering	60	39	39
BE	Electronics and Communication Engineering	120	66	66
BTech	Information Technology	60	23	23
BE	Mechanical Engineering	120	104	104

ME	Construction Engineering and Management	18	7	7
ME	Structural Engineering	18	15	15
ME	Computer Science and Engineering	24	7	7
ME	Control and Instrumentation	18	1	1
ME	Power Electronics and Drives	24	2	2
ME	Applied Electronics	24	3	3
ME	Communication Systems	24	2	2
ME	Medical Electronics	18	1	1
ME	Communication and Networking	24	2	2
ME	Energy Engineering	18	6	6
MBA	Master of Business Administration	60	60	60
MCA	Master of Computer Application	60	38	38
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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
2018	398	144	60	13	89

## 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	Number of smart classrooms	E-resources and techniques used
165	151	2300	38	0	151

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

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. They maintain Integrated Student Profile which consist of the students personal information and their regularity, discipline, performance in academic and other activities. The mentors submit monthly report to head of the department, the head of the department in tern brings the report to the knowledge of the dean student affairs and the principal. The report consist of information updated in integrated students profile file, students attendance, communication with parents and counseling details. Students who are irregular and not performing well in the internal assessment tests are counseled by the mentors and also the mentors pass the information to the parents. Mentors interact with parents during parent teacher interaction meeting conducted once in a semester. 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 dean 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 are in need of professional counseling are directed to the counseling cell.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
542	163	1:15

### 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
0	0	0	0	0

#### 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
2018	Dr. M. Marsaline Beno	Professor	Dr. APJ Abdul Kalam Best Achiever Award
2019	Dr. R.P. Anto Kumar	Professor	ICT Academy Best Coordinator Award
2018	Dr. J. Annrose	Assistant Professor	NPTEL Active SPOC

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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
BE	CE	8	13/04/2019	22/06/2019
BE	CSE	8	29/04/2019	22/06/2019
BE	EEE	8	29/04/2019	22/06/2019
BE	ECE	8	29/04/2019	22/06/2019

BTech	IT	8	29/04/2019	22/06/2019
BE	ME	8	16/04/2019	22/06/2019
ME	CEM	4	21/05/2019	22/06/2019
ME	SE	4	22/05/2019	22/06/2019
ME	CSE	4	22/05/2019	22/06/2019
ME	CI	4	18/05/2019	22/06/2019
ME	PED	4	24/05/2019	22/06/2019
ME	AE	4	21/05/2019	22/06/2019
ME	CS	4	24/05/2019	22/06/2019
ME	CN	4	25/05/2019	22/06/2019
ME	ME	4	21/05/2019	22/06/2019
ME	EE	4	25/05/2019	22/06/2019
MBA	MBA	4	21/05/2019	22/06/2019
MCA	MCA	6	17/05/2019	22/06/2019
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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, three class tests and three assignments are the major assessment strategies used. In addition to the above, seminar, quiz, discussion, case study 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 report, reviews and demonstration are the parts of continuous internal evaluation system. Each assessment element of a system is tagged to cognitive level and course outcomes. The course outcomes are mapped to program outcomes and program specific outcomes. Using a common procedure and rubrics the course outcomes attained by each student is calculated from the academic performance of the student in assessments. From the attainment of course outcomes, the attainment of program and program specific outcomes are calculated. The quality of the question papers of internal assessment test is verified by IQAC members. The quality of answer script evaluation is verified by assistant HODs and PG coordinators. From the program and program specific outcomes attainments from each course, the overall PO and PSO attainment of a batch is calculated. 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.

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

The college prepares academic calendar and handbook. The academic calendar is prepared by Principal and Vice Principal having 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 in the college website so that the stakeholders can refer it. The academic calendar consist of working days and academic activities like internal examinations. The hand book is prepared and distributed to the staff members and students. The hand book consist 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 provide details about reopening, holidays, examinations, department association activities and other various co curricular and extra curricular 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)

<https://www.sxcce.edu.in>

### 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
ME	ME	Medical Electronics	3	3	100
EE	ME	Energy Engineering	4	4	100
MBA	MBA	Master of Business Administration	54	44	81.48
MCA	MCA	Master of Computer Application	46	39	84.78
CE	BE	Civil Engineering	71	60	84.50
CSE	BE	Computer Science and Engineering	83	61	73.49
EEE	BE	Electrical and Electronics Engineering	63	34	53.96
ECE	BE	Electronics and Communication Engineering	113	93	82.30
IT	BTech	Information Technology	40	16	40.70
ME	BE	Mechanical Engineering	141	52	36.87
CEM	ME	Construction Engineering and Management	17	17	100
SE	ME	Structural Engineering	17	15	88.23
CSE	ME	Computer	10	9	90.00

		Science and Engineering			
CI	ME	Control and Instrumentation	2	2	100
PED	ME	Power Electronics and Drives	10	10	100
AE	ME	Applied Electronics	14	14	100
CS	ME	Communication Systems	17	16	94.11
CN	ME	Communication and Networking	2	2	100
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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)

<https://www.sxcce.edu.in>

## 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
Any Other (Specify)	00	00	0	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
IPR Awareness and Patent Rights	Computer Science and Engineering	31/10/2018

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
ICT Academy Best Coordinator Award	Dr. R.P. Anto Kumar	ICT Academy	31/01/2019	National
Dr. A.P.J. Abdul Kalam Best Achiever Award	Dr. M. Marsaline Beno	Dr. A.P.J. Abdul Kalam International Trust	07/10/2018	State
Best Blood Donation Camp	Dr. M. Vijaya Kumar	Kanyakumari Medical College	01/10/2018	District

Organizer		Hospital		
Vision 2020 Energy Contributor	Dr. M. Marsaline Beno	Vision 2020 All India National Development Conference	25/06/2018	International
Research Excellence	Dr. V. Christus Jeya Singh	IET KKLN	20/06/2018	State
Excellent Partner Award for Skill Development	Institute	ICT Academy	31/01/2019	State
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### 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	13/12/2019
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### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
2	0	7

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

Name of the Department	Number of PhD's Awarded
Electronics and Communication Engineering	2
Mechanical Engineering	3

#### 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	2	0.21
International	Computer Science and Engineering	10	0.41
International	Electrical and Electronics Engineering	7	0.82
International	Electronics and Communication Engineering	14	0.70
International	Information Technology	3	0.5
International	Mechanical Engineering	8	3.77
International	Master of Business Administration	4	0
International	Master of Computer	9	0.02

	<b>Application</b>		
<b>International</b>	<b>Humanities and Sciences</b>	<b>3</b>	<b>0.52</b>
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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
<b>Civil Engineering</b>	<b>30</b>
<b>Computer Science and Engineering</b>	<b>11</b>
<b>Electrical and Electronics Engineering</b>	<b>12</b>
<b>Electronics and Communication Engineering</b>	<b>52</b>
<b>Information Technology</b>	<b>15</b>
<b>Mechanical Engineering</b>	<b>22</b>
<b>Master of Business Administration</b>	<b>6</b>
<b>Master of Computer Applications</b>	<b>12</b>
<b>Humanities and Sciences</b>	<b>36</b>
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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
<b>Attached in Excel file</b>	<b>00</b>	<b>Attached in the Excel file</b>	<b>2019</b>	<b>15</b>	<b>Attached in the Excel file</b>	<b>30</b>
<a href="#">View File</a>						

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
<b>Attached in Excel file</b>	<b>Attached in the Excel file</b>	<b>Attached in the Excel file</b>	<b>2019</b>	<b>15</b>	<b>23</b>	<b>Attached in the Excel file</b>
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
<b>Attended/Seminars/Workshops</b>	<b>87</b>	<b>168</b>	<b>127</b>	<b>82</b>
<b>Presented papers</b>	<b>63</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>Resource persons</b>	<b>5</b>	<b>6</b>	<b>10</b>	<b>19</b>



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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
Blood Donation	YRC, NSS and NCC	5	17
Pongal Celebration in Ambedkar Colony	Tamil Mantram, Fine Arts Club	8	50
Visit to Homes for Mentally Challenged	EMMAS	1	20
First Aid Awareness	NSS	3	85
Aforestation Awareness	Kanyamumari District Administration	1	10
Childrens Day at Government High School	Department of MBA	3	150
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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
Blood Donation	Best Blood Donation Camp Organizer	Kanyakumari Medical College Hospital	17
No file uploaded.			

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/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
International Yoga Day	11(TN)BN, NCC, Nagercoil	Yoga	5	58
Eat Right India Movement	SXCCE	Awareness	1	45
Swasth Bharath	11(TN)BN, NCC, Nagercoil	Cycle Rally	1	18
Surgical Strike Day	11(TN)BN, NCC, Nagercoil	Awareness	1	60
Field Work	IEEE WIE	Orphanage Visit	3	25
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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
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Unnat Bharat Abhiyan	22	MHRD	2
No file uploaded.			

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	nth Soft, Chennai	27/05/2019	25/06/2019	1
Internship	Junior Programmer Trainee	Yuvatech Solutions Pvt. Ltd., Thiruvananthapuram	03/01/2019	03/07/2019	1
Project Work	Project Work	Concept Solution, Thiruvananthapuram	01/12/2018	24/04/2019	5
Project Work	Project Work	Learn, Thiruvananthapuram	01/12/2018	24/04/2019	2
Project Work	Project Work	Yuvatech Solutions Pvt. Ltd., Thiruvananthapuram	01/12/2018	30/04/2019	4
Project Work	Project Work	Giraffic Info World, Thuckalay	01/12/2018	30/04/2019	4
Project Work	Project Work	HiFy Technologies, Nagercoil	01/12/2018	30/04/2019	1
Project Work	Project Work	Talent Edge, Nagercoil	01/12/2018	30/04/2019	3
Project Work	Project Work	Maxaim Softtech Solution	01/12/2018	30/04/2019	1
Project Work	Project Work	Tech Matrix Software Technologies, Thiruvananthapuram	01/12/2018	30/04/2019	2
Project Work	Project Work	Websign X Tech, Nagercoil	01/12/2018	30/04/2019	1
Project Work	Project Work	Trident	01/12/2018	30/04/2019	6

Solutions  
Pvt. Ltd.

No file uploaded.

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
Tyrannus Innovative Engineering and Research Academy Pvt. Ltd.	02/11/2018	Industry Oriented Training	1
Networkz System	25/10/2018	Training the Students	1
Sigma College of Architecture	16/10/2018	Training the Students	2
Holy Cross College	28/08/2018	Research and Knowledge Sharing	16
National Testing Agency	27/08/2018	Online Examinations	1200
University of Aveiro Portugal	13/06/2018	Research Collobaration	1
No file uploaded.			

## 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
835.41	860.08

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Laboratories	Newly Added
Seminar Halls	Newly Added
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
Others	Newly Added
No file uploaded.	

### 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
Own Automation Software XLA	Fully	1	2003

#### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Digital Database	14630	1400355	10906	13570	25536
CD & Video	1550	0	29	0	1579	0
Text Books	26821	7516155	924	191504	27745	7707659
Reference Books	8730	2647783	15	18000	8745	2665783
e-Books	14630	1400355	10906	13570	25536	1413925
Journals	1042	581656	91	58493	1133	640149
e-Journals	3052	10650438	662	1392835	3714	12043273
No file uploaded.						

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
Ms. V. Femila Savio	Superposition Theorem	YouTube	02/09/2018
Dr. M. Marsaline Beno	Electromagnetic Field Theory	Google Class Room	19/07/2018
Dr. M. Marsaline Beno	Circuit Theory	Google Class Room	19/03/2019
Dr. M. Marsaline Beno	Renewable Energy Sources	Google Class Room	27/06/2019
Mr. V. Vijimon Moni	Integral Calculus Overview MA8151	YouTube	05/01/2019
Mr. V. Vijimon Moni	Function in Several Variable Overview MA8151	YouTube	05/01/2019
Mr. V. Vijimon Moni	How to Pass in MA8151	YouTube	04/01/2019
Mr. V. Vijimon Moni	Maxima and Minima One Variable Part II	YouTube	29/10/2018
Mr. V. Vijimon Moni	Maxima and Minima One Variable Part I	YouTube	28/10/2018
Mr. V. Vijimon Moni	Differential Calculus Overview MA8151	YouTube	27/10/2018
Mr. V. Vijimon Moni	Cachey Hamilton Theorem	YouTube	07/09/2018
No file uploaded.			

#### 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	1040	15	1040	3	1	1	9	74	0
Added	20	0	20	0	0	0	0	76	0
Total	1060	15	1060	3	1	1	9	150	0

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

150 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	<a href="https://www.sxcce.edu.in/">https://www.sxcce.edu.in/</a>

#### 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 incurred on maintenance of physical facilities
53.7	56.66	50.02	47.27

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 are provided to the students. Students return the equipment after doing the experiments. Lab assistant check 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 are periodically maintained by lab assistants and the details are entered in maintenance register. During the maintenance checkup, 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 2, PG students can borrow 4 and faculty members can borrow 6 books. Students are allowed to borrow books for a duration of 2 weeks. Book search, issue and return are done through library automation software. Walkin and Walkout are recorded electronically in Egate using barcode reader. Library hours are used to improve the reading habit of the students. Students and staff 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 sports wear, 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://sxcce.edu.in>

## 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 in the Excel file	26	2140000
Financial Support from Other Sources			
a) National	Attached in the Excel file	218	5340000
b) International	Attached in the Excel file	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 implementation	Number of students enrolled	Agencies involved
Attached in the Excel file	26/04/2019	12997	Attached in the Excel file

[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 students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Attached in the Excel file	292	414	3	424

[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
10	9	30

### 5.2 – Student Progression

#### 5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations	Number of students	Number of students placed	Name of organizations	Number of students	Number of students placed

visited	participated		visited	participated	
Attached in the Excel file	2967	394	12	198	30
<a href="#">View File</a>					

#### 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
2019	39	Attached in the Excel file	Attached in the Excel file	Attached in the Excel file	Attached in the Excel file
<a href="#">View File</a>					

#### 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
GATE	2
GRE	3
TOFEL	3
Civil Services	1
Any Other	2
No file uploaded.	

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

Activity	Level	Number of Participants
Men Football Tournament	Anna University Zone 19	20
Men Basketball Tournament	Anna University Zone 19	12
Men Cricket Tournament	Anna University Zone 19	16
Men and Women Chess Tournament	Anna University Zone 19	14
Men and Women Badminton Tournament	Anna University Zone 19	11
Athletic Tournament	Anna University Zone 19	58
Volley Ball Tournament	Anna University Zone 19	12
Calida Festa	Inter College Fine Arts Competitions	300
Talent Search	College	448
Sports Day	College	1025
College Day	College	448
No file uploaded.		

### 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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Best Physic	National	2	0	701746, 401668	Saran G. and Ramdharson
No file uploaded.						

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

Institution has no student council but has similar bodies. Department associations, professional and nonprofessional cells are available in the college whose activities are organized by the students. Executive members of these bodies are selected by election or by anonymous choice. Each department association has student secretary, joint secretary, treasurer and office bearers guided by a faculty advisor. Funds for the functioning of the associations are made available by the management. Activities carried out by the associations and different cells are i) Planning and arranging association/cell activities, ii) Arranging programs like symposium, conference etc., iii) Industrial visit and Educational tour, iv) Encouraging the students participation in events, v) Publishing materials and developing team work. Four student representatives are part of class committee of each class. Three class committee meetings are conducted in a semester. Students actively participate in the discussion and academic administrative activities through the class committee meetings.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

St. Xaviers Alumni Association Trust was founded on 3 rd April 2005 by Rev. Fr. K. Amirtha Rai, the founder trustee and the former correspondent of St. Xaviers Catholic College of Engineering. The deed of trust was executed on 21 st July 2017 by Rev. Fr. Dr. M. Maria William, the present patron of the trust. The government registration number of the alumni association is BKIV 72/2017. Current Board of Directors: Patron: Rev. Fr. Dr. M. Maria William, Correspondent President: Mr. Rajesh Anbu Working President: Dr. J. Maheswaran, Principal Vice President: Mr. A. Aswin Secretary: Mr. S. Gavaskar Treasurer: Mr. R. Rajesh

5.4.2 – No. of enrolled Alumni:

8250

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

17250

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meetings in the college are conducted on December 26th every year and on the graduation day. Annual Alumni Meet was conducted on 26 December 2018. 120 members of the alumni participated in the meeting. Department wise Alumni Meet was conducted on 16 February 2019.

### 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)

Vice Principal is appointed to assist the Principal in the healthy administration of the college. The Vice Principal acts with the administrative powers of the Principal in the absence of the Principal. The Principal, with the approval of the management, shares some of her/his responsibilities with the Vice Principal and puts her/him in charge of some sections of the activities in the practical running of the college. The VicePrincipal always works in close association with the Principal. Assistant HODs are appointed to assist HOD, they verify and audit course files, attendance and assessment records, evaluation of internal answer scripts and monitoring other academic activities as assigned by the HOD. PG Coordinators verify and audit PG course files, attendance and assessment records, evaluation of internal answer scripts and monitoring the academic activities related to PG. IQAC members verify and audit the internal question papers.

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
Teaching and Learning	Teaching development cell is formed in the college to improve the outcome based teaching to cope up with the current trends. Teaching development cell analyses the existing teaching methods, suggest innovative teaching methods and monitor the teaching methods. Faculty members are motivated to complete one online course per year in the area of teaching and learning.
Examination and Evaluation	Centralized class tests and model test are introduced. The course outcomes are printed in the question paper, so that students understand the outcomes of their courses. Test papers are corrected and the marks are entered in the college automation software. Assistant HOD and PG coordinator randomly verifies the evaluated answer scripts, answer key and the marks entered in the college automation software.
Research and Development	Physics department has been recognized as research center by Anna University, Chennai. Staff member's research publications in SCI indexed journals are rewarded. Research funds generation in each department is motivated to improve in research activities. All faculty members are motivated to complete their Ph.D. Staff and students are motivated to apply for sponsored projects.

<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>Barcode system is in practice for book lending and Eresources can be accessed anywhere in the college campus. Library utility register is maintained electronically. Availability of the book can be searched through the college automation software. The institution is a member of National Digital Library (NDL) and Developing Library Network (DELNET) All the computers in the institute are connected to internet. ICT usage in teaching and learning is encouraged.</p>
<p>Human Resource Management</p>	<p>Detailed roles and responsibilities of all the personnel working in the college are specified in the upgraded manual. Performance Based Appraisal System is followed to assess the performance of the faculty members. Faculty members those who achieve centum or near centum results are encouraged with rewards. Leave facilities on par with the government employees is available and a vacation of 42 days is given.</p>
<p>Industry Interaction / Collaboration</p>	<p>Institution creates adequate facilities for updating knowledge of researchers in order to meet the growing needs of the industry. Collaboration with research laboratories, institutions and industries resulted in collaborative research, sharing of research facilities and faculty.</p>
<p>Admission of Students</p>	<p>In the Government single window system, the criteria are, passing in the qualifying examination and admission is made using cutoff marks. The Cutoff mark is calculated out of 200 from the marks secured in Mathematics, Physics and Chemistry in the ratio of 2:1:1 respectively. In the management quota the mark scored in the Common Entrance Test conducted by Self Financing Consortium is used to admit the students. Career guidance programs have been conducted at 11 rural schools. Special career guidance program has been conducted to the higher secondary students. Institute provides St. Xaviers Merit Scholarship Scheme (SXMSS). Institute also provides Diocese scholarship.</p>
<p>Curriculum Development</p>	<p>The Curriculum is planned and designed by the Anna University. Each department checks the compliance of the university syllabus in attaining the NBA</p>

prescribed program outcomes. Gap is identified and content beyond syllabus is framed to fill the gap in attaining the POs of the program. Skill development programs and value added courses are conducted to fill the identified curricular gap Extra syllabus is planned and conducted for each subject to Promote Interactive, Cooperative, Collaborative and Self Learning Regular guest lectures by experts, seminars, workshops, conferences and industrial visits are arranged to fill the gap identified in the syllabus.

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

E-governance area	Details
Planning and Development	College automation software is used to tract the performance of the development activities.
Administration	All the circulars are sent through the college automation software. Staff members leave, on duty, permission and other leaves are administered using college automation software.
Finance and Accounts	College has a well furnished, fully computerized automated office and accounts section. Students can pay and view their fees through college automation software. College accounts are maintained through the accounting software Tally. Online deposits of PF and ESI for the staff members are done. Electronic salary slip is maintained.
Student Admission and Support	Students are admitted under Government single window system and through management quota. In Government quota, the students are admitted through online counseling by Anna University in the year 20182019 and DOTE in 20192020. Students admitted into the college through Government quota and management quota are managed with the help of the college automation software. Students feedback and grievance registration are obtained through the college automation software. Faculty members upload learning materials in the automation software and students can download the e resources.
Examination	Two sets of question papers are set with questions tagged with cognitive level and course outcomes and uploaded in the college automation software. The Exam Cell selects randomly one question

paper. Marks are entered in the automation software by the faculty in charge. Students are able to view their marks in class test, assignment and internal exam through their login account in the college automation software. Marks are sent to the parents as SMS from the college automation software. Automation software enables the faculty members to analyze the outcome attainment of the students.

### 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/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Attached in the Excel file	Attached in the Excel file	Attached in the Excel file	125040

[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	Outcome Based Education in Enginee ring Outcome Assessment Evaluation	NA	06/06/2019	07/06/2019	155	0
2019	Outcome Based Learning Methods and Strategies	NA	20/06/2019	22/06/2019	154	0

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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 in the	0	01/07/2018	29/06/2019	12

[Excel file](#)

[View File](#)

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	0	14	14

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Festival advance of Rs. 5,000/ for staff members are given and payable in 10 instalments before the financial year ends. Employee Provident Fund facility is provided to all the staff members. Cash awards are given to faculty members who produce centum results and near to centum in university examinations. Cash awards are provided to faculty members who publish papers in SCI indexed journals. Staff club is functioning in the college.</p>	<p>Festival advance of Rs. 5,000/ for staff members are given and payable in easy 10 instalments before the financial year ends. 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 PayDA is less than Rs. 15000.</p>	<p>Institute provides St. Xavier's Merit Scholarship to a maximum of 24 meritorious students. Institute provides scholarship to poor meritorious catholic and dalit students. Institute provides medical insurance to the students. SC/ST Cell in the institute works for the welfare of SC/ST students.</p>

**6.4 – Financial Management and Resource Mobilization**

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

Financial audit is done by both external and internal auditors. Internal audit is done by the audit committee of the Governing Council every month. The Chartered 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	Nil
No file uploaded.		

6.4.3 – Total corpus fund generated

10932380

**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	NAAC, NBA	Yes	IQAC

Administrative	Yes	NAAC, NBA	Yes	Management
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6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

PTA meetings are conducted by Parent Teachers Interaction Cell at the institute and departmental level. Academic developmental activities and achievements are briefed to the parents by the Principal. Other developmental activities are briefed to the parents by the Correspondent. In the department level discussion, departmental activities are briefed to the parents by the HOD. The performance of the students in academic and other activities are conveyed to the parents by the mentors. During interaction session, parents suggest the ways and means for the development of the college. Feedback is collected from the parents.

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

Mr. Christudhas, the Speed Inspector of Ashok Leyland addressed college drivers on new vehicles and handling the vehicles. This program was coordinated by the department of Mechanical Engineering. Three staff members have obtained driver training certificate and they train students in the driving school.

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

Three UG Programs Electrical and Electronics Engineering, Electronics and Communication Engineering and Mechanical Engineering have been accredited by NBA under tier II category for three years from 2018 2019 to 2020 2021. UG programs Civil Engineering, Computer Science and Engineering and Information Technology are preparing to apply for NBA accreditation. 65 faculty members have completed 148 online courses. More faculty members are doing online courses to enhance the teaching learning process. Students participatory learning and internship are increasing.

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	Setting benchmarks for 2019 2020	29/06/2019	29/06/2019	29/06/2019	18
2019	Internal IQAC meeting for planning	26/04/2019	26/04/2019	26/04/2019	8
2018	Finalizing benchmarks for 20182019	02/07/2018	02/07/2018	02/07/2018	13
2018	Setting benchmarks for 20182019	20/06/2018	20/06/2018	20/06/2018	14
2019	Meeting students for	20/06/2019	06/02/2019	25/02/2019	1400

the improvement of quality and academic performance in line with Bloom's taxonomy and outcome based education

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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
Gender Equity Sensitization	11/10/2018	11/10/2018	211	273

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 is conducted to motivate the students to know about recycling by ECO Club. Energy Awareness camp was conducted for all the 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 disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	0	17/05/2019	1	IDBI Exam Center	Location 1	250

						advantage to candidates appearing for competitive examinations	
2019	1	0	16/05/2019	1	IDBI Exam Center	Locational advantage to candidates appearing for competitive examinations	224
2019	1	0	05/05/2019	1	NEET Exam Center	Locational advantage to candidates appearing for competitive examinations	1020
2019	0	1	03/05/2019	1	Infosys Pool Campus Placement Drive	Locational advantage to candidates appearing for placement drive	2550
2019	1	0	27/04/2019	1	NPTEL Exam Center	Locational advantage to candidates appearing for competitive examinations	139
2019	0	3	06/04/2019	1	Polling Officers Training	Training to the polling officers of the district	1450
2019	0	1	10/03/2019	1	Orphanage Visit	Help the needy by NSS volunteers	177



2019	0	1	04/02/2019	1	NSS Camp	Social work by NSS volunteers	152
2019	1	0	06/01/2019	1	NEET PG Exam Center	Locationa l advantage to candid ates appearing for compe titive ex amination s	200
2018	0	1	31/12/2018	1	IET KKLN Oncampus Fest	Technical competi ti ons	49
2018	1	0	06/12/2018	1	TNFURSC Exam Center	Locationa l advantage to candid ates appearing for compe titive ex amination s	4916
2018	0	1	14/11/2018	1	Childrens Day at Go vernment School Pa rvathipur am	Positive social and emotional interacti on	165
2018	0	1	17/10/2018	1	IET Orphanage Visit	Help the needy by IET members	35
2018	0	1	13/10/2018	1	Blood Donation Camp	Blood donation by students, NSS volun teersand NCC cadets	18
2018	0	1	26/09/2018	1	Palmyra Seed Coll ection	Plantatio n	150
2018	0	1	15/09/2018	1	Nutrition al Food Awarness Rally by NCC	Eat right food and be healthy	65
2018	0	1	15/08/2018	1	Orphanage	Help the	25

			8		Visit by IEEE WIE	needy	
2018	0	1	08/08/2018	1	Motivatio nal Program in Govern ment School by ISTE	Governing skill	153
2018	0	1	06/06/2018	1	Computer Hardware, Software and Network Summer Training	Computer training	54
2019	1	0	26/05/2019	1	UGC NET Exam Center	Locationa l advantage to candid ates appearing for compe titive ex amination s	419
2019	1	0	25/06/2019	1	UGC NET Exam Center	Locationa l advantage to candid ates appearing for compe titive ex amination s	198
2019	1	0	24/06/2019	1	UGC Exam Center	Locationa l advantage to candid ates appearing for compe titive ex amination s	335
2019	1	0	22/06/2019	1	SBI Exam Center	Locationa l advantage to candid ates appearing for compe titive ex amination s	769

2019	1	0	21/06/2019	1	UGC NET Exam Center	Locational advantage to candidates appearing for competitive examinations	169
2019	1	0	20/06/2019	1	UGC NET Exam Center	Locational advantage to candidates appearing for competitive examinations	106
2019	1	0	16/06/2019	1	NABARD Exam Center	Locational advantage to candidates appearing for competitive examinations	21
2019	1	0	15/06/2019	1	NABARD Exam Center	Locational advantage to candidates appearing for competitive examinations	68
2019	1	0	06/06/2019	1	IISER Exam Center	Locational advantage to candidates appearing for competitive examinations	196
2019	1	0	02/06/2019	1	JIPMER Exam Center	Locational advantage to candidates appearing	406

						for competitive examinations	
2019	1	0	26/05/2019	1	AIIMS Exam Center	Locational advantage to candidates appearing for competitive examinations	380
2019	1	0	25/05/2019	1	AIIMS Exam Center	Locational advantage to candidates appearing for competitive examinations	380
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Hand Book	02/07/2018	Rules and regulations, and general regulations for students are provided in the hand book which is revised every year if needed. For all the staff of the college, the code of conduct is provided in the manual of general administration which was updated last in 2017.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Code of Pledge of Engineering Ethics by IEEE on Womens Day	08/03/2019	08/03/2019	20
Motivational Program on Moral and Ethical Values	24/01/2019	24/01/2019	18
Code of Pledge of Engineering Ethics on IEEE Day	15/10/2018	15/10/2018	23
Code of Pledge of Engineering Ethics	15/09/2018	15/09/2018	125

by IEEE on Engineers Day			
Code of Pledge of Engineering Ethics by IEEE on Teachers Day	08/09/2018	08/09/2018	30
Code of Pledge of Engineering Ethics on IEEE Inauguration	30/08/2018	30/08/2018	50
Code of Pledge of Engineering Ethics on IET Inauguration	27/08/2018	27/08/2018	42
Motivational Programme on Moral and Ethics	17/07/2018	17/07/2018	45
Value Education	02/07/2018	22/04/2019	1874
Personal Value Formation and Professional Ethics	18/06/2018	19/06/2018	169
No file uploaded.			

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

Plantation of palm tree campaign. Installation of housekeeping cell. Plastic awareness camp. Seed ball preparation by the students. Paper bag awareness program by IET. Observation of 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.

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>

## 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>

### **8.Future Plans of Actions for Next Academic Year**

Apply and obtain NBA accreditation for the UG programs Civil Engineering, Computer Science and Engineering and Information Technology. Apply and obtain autonomous status for the college. Other Benchmarks set for the Academic Year 2019 2020 Each faculty member has to complete two online courses, one in their technical area of expertise and another one in the area of teaching learning. Each faculty has to attend one relevant FDP of one week duration per year in a reputed institution during summer/winter vacation. Departments have to motivate the students to complete online courses. 10 students of each department have to complete online courses and obtain certificates. Each faculty member has to produce at least one e content. Students having arrears should clear 1st semester arrear courses before completing 4th semester. Graduation rate is to be more than or equal to 90. SC/ST cell, Students Affairs, Outreach Program Committee have to take efforts to improve SC/ST students admission. GATE coaching has to be centralized and at least 5 of graduates have to qualify in GATE 2020. Staff members link with industry need improvement. Each staff member is expected to establish a link with industry. Each department has to apply and obtain at least one major project, one minor project and one student project.