Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**XAVIER INSTITUTE OF ENGINEERING**
Name of the head of the Institution	**Y. D. Venkatesh**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**02224460359**
Mobile no.	**9820198029**
Registered Email	**office@xavierengg.com**
Alternate Email	**ydvenkatesh@yahoo.com**
Address	**Xavier Institute of Engineering, Opposite S L Raheja Hospital, Mahim Causeway, Mahim West**
City/Town	**Mumbai**
State/UT	**Maharashtra**
Pincode	**400016**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Fr.Fabian Barreto S.J**
Phone no/Alternate Phone no.	**02224451961**
Mobile no.	**9833916407**
Registered Email	**frfabiansj@xavier.ac.in**
Alternate Email	**office@xavier.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.xavier.ac.in/AQAR%20AY%202018-19.php

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.xavier.ac.in/Academic%20Calendar.php

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B+**	**2.63**	**2019**	**01-Apr-2019**	**31-Mar-2024**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**18-Dec-2018**

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
Python Training(Please	**09-Dec-2019**	**103**

refer the file for more activities)	6		

L::asset('/'),'public/').'/public/index.php/admin/get_file?file_path='.encrypt('Postacc/Special_Status/'.$instdata->upload_special_status)}}

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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
Kavita Jain	Minor Research Grant	University of Mumbai	2020 365	0.15
Sushama Nitin Khanvilkar	Minor Research Grant	University of Mumbai	2020 365	0.25
Shailaja Udtewar	Minor Research Grant	University of Mumbai	2020 365	0.25
Madhura Shirodkar	Minor Research Grant	University of Mumbai	2020 365	0.35
Leena Patil	Minor Research Grant	University of Mumbai	2020 365	0.25
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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.To register XIE Alumni body 2.To start the Mumbai University NSS cell 3.To introduce Value Added Courses in each department. 4.To standardize IAT Question Paper template 5.To conduct industrial visits, workshops and conferences to learn about the latest developments in different Engineering domains and thus pursue learning in recent areas of research and technology. 6.To conduct activities under ISTE Chapter

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
NIRF	In progress
NBA: SAR of EXTC and IT department	In progress
To conduct industrial visits, workshops and conferences to learn about the latest developments in different Engineering domains and thus pursue learning in recent areas of research and technology.	Achieved
To introduce Value Added Courses in each department.	Institute level courses conducted
To conduct activities under ISTE chapter	Achieved
Exam reforms - standardization of IAT paper templates	Achieved
To start Mumbai University NSS XIE cell	Achieved
To register the XIE Alumni Cell	Achieved

14. Whether AQAR was placed before statutory body ?	No
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	24-Jan-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)	A proposal to purchase ERP software has been put up and approved. Therefore, ERP software has been purchased and module wise development of work is going on. Also the college has a Moodle Server for academic purposes and it is

currently used for communicating the progress of students to their parents/guardian using bulk SMS service. The college also has in house dedicated software for: Exam Section for Production of marks sheet. Accounts Section uses Tally for accounts, Administrative section / office section uses Transcripts certificates and transference certificates, Bonafide certificate templates.

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

Our Institute XIE is affiliated to University of Mumbai and the curriculum and syllabi are prescribed by the university that are to be strictly adhered to. The institution has a well-developed system for effective implementation of the scheme of the curriculum. Teaching Learning Process is based on proper planning and effective delivery of Lecture / Practical / Tutorial as per the time table, following the academic calendar. In case of any shortcoming due to unavoidable circumstances, necessary changes are made in consultation with HODs. All Teaching – Learning processes are held online due to pandemic situation of Covid -19. Learning process of students is monitored by the faculty members on the basis of continuous evaluation. Class teachers of each class monitor the academic development of students. Faculty Meetings are held online at least twice in a semester with the Director and Principal. Academic calendar and time-table are prepared and displayed at least fifteen days before the commencement of the semester on the Institute website and notice boards. FE orientation programme is organized online to promote congenial and healthy atmosphere among FE students who are newly admitted along with their parents. Teaching – Learning process in the institute is followed with a student centric method of teaching. ICT is used extensively to ensure effective delivery of curriculum. Last year faculty used zoom link, google meet and other network systems to conduct the classes. Institute has also subscribed to zoom links that are shared with teachers and students. Course material is uploaded on the Moodle server that enables students to see and prepare all the lectures that take place in the class. Open-source software are used and online experiment were conducted as per guidance of IIT's. Attendance and progress of the students are regularly monitored and informed to parents, necessary actions are taken on those having less than 75% attendance. Internal assessment test-I is conducted after 40% coverage of syllabus. Internal assessment test- II is conducted after 70 % coverage of syllabus. End semester examination is conducted by the University. Well defined program outcomes and course outcomes aid in providing direction to teaching and other activities. Guest lectures, seminars, Industrial visits and training programmes are supplements to the curricular inputs. Students are encouraged in carrying out research work and present papers in seminars and conferences and publish papers in journals. Each teacher is allotted with 20 students for mentoring and in the time – table, one slot is provided for mentoring.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of	Duration	Focus on employ	Skill

Introduction				ability/entrepreneurship	Development
Nil	Nil	Nil	0	Nil	Nil

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Please see the attached file	08/07/2019

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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	COMPUTER ENGINEERING	08/07/2019
BE	IT	08/07/2019
BE	EXTC	08/07/2019

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

	Certificate	Diploma Course
Number of Students	0	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
Python Training	09/12/2019	103
Java Training	17/12/2019	30
Java for Beginners	17/06/2020	158
.Net Training	23/09/2019	38

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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	Please see the attached file	124

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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?

Feedback Obtained
The Institute takes the feedback from the stake-holders such as students, alumni, faculty and parents at regular intervals. The feedback from the students is first taken after the completion of four weeks and again at the end of the semester. Interim feedback helps to modify the teaching process of the course that is being taught(if required). Students give feedback on the quality of teaching based on the instructors communication skills and knowledge in the subject once at the semester end. This shall remain confidential and is only intimated to the respective faculty during a meeting by the Director and the Principal. BE Program Exit Feedback is taken from final year graduating students based on the program outcomes of their respective specialization. Student Facility feedback is also taken from the students to know more about their views on different basic facilities available in the Institute such as library, study materials, water supply, sanitation, power supply, canteen, etc. provided by the college. The institution is always ready to improvise on the facilities provided to the students. Institution also analyses the feedback taken from teachers once in a year on the syllabi, facilities provided such as library, internet, laboratories and other support systems. This helps to improve the academic performances of the students by enriching them with new advanced techniques used by the teachers. The contents covered beyond the syllabus encourage them towards research and life-long learning. Institution seeks feedback from Alumni in order to improve the quality of its academic programmes and enhance its credibility. This often helps in selecting appropriate add – on programmes. Alumni can give their feedback anytime during the year. However, feedback is analysed once in a year. Institution also takes feedback from parents once in a year pertaining to infrastructure, facilities and support systems. Employers provide feedback on the development of XIE students as engineers and professionals. Parents can give feedback either using online or using printed forms available with class teachers as and when they visit the institution.

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	IT	60	140	70
BE	EXTC	60	11	55
BE	COMPUTER ENGINEERING	60	140	72
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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	197	0	44	0	0

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
44	43	6	9	0	5
[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)

The purpose of the mentoring system is to monitor and develop students academic, professional and personal well being. Every student is assigned to a faculty member who shall mentor the student till he/she completes his/her course. For effective mentoring and to look after the welfare of the students, 18 to 20 students are allocated to a faculty member. Mentors are Allocated from Applied Science and Humanities Department in their First Year along with mentor from each department who can carry forward and monitor them till their final year. These faculty members will mentor the students throughout their four years of stay. Mentors monitor the mentees on punctuality, attendance, academic performance and others. A mentoring booklet is maintained for every student and record all pertinent information like personal, academic performance, projects carried out etc. Students are counselled twice in a semester, preferably after first and second internal assessment tests. However, they shall be met by their mentors at any point of time and discuss on their progress. Mentors are aware of their personal matters and they are kept confidential that helps students to share their views on personal aspects openly. Problems (if any) are suitably addressed. Mentors also identify students performance and capability based on Extra curricular and Co-Curricular activities. They are encouraged to participate in various activities and showcase their leadership and ability to work in groups. The suggestions are given by the mentors to the students to improve their academic performance. Mentor follows the student's progress regularly, advising them to overcome the difficulties in the learning processes. One of the motto of mentoring is to identify the personal problems and try to counsel students. Also mentoring helps to improve discipline through counselling. The college endeavors to look after the total personality development of students through Cocurricular and extracurricular activities through counselling. It is observed that Mentor-Mentee system gives students encouragement to grow in terms of academic as well as personal development.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
791	44	1:18

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
46	44	2	1	7

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
2019	Dr. Y.D.Venkatesh	Principal	Subject expert in conducting faculty interviews at different colleges of Engineering

2019	Dr. Y.D.Venkatesh	Principal	Member in Advisory Board of Fr. C.Rodrigues Institute of Technology

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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	1T01228	Sem VIII/Fourth Year	17/10/2020	17/11/2020
BE	1T00728	Sem VIII/Fourth Year	17/10/2020	13/11/2020
BE	1T01028	Sem VIII/Fourth Year	17/10/2020	24/11/2020

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

The institute is making all efforts to improve the performance of students by framing and implementing reforms with a Continuous Internal evaluation process. The reforms made are as follows: 1.Remedial classes are taken by conducting tutorials to clarify doubts and re-explaining all the critical topics. 2.Viva is taken before allowing students to conduct practical. 3. Students are encouraged to solve previous years University Exam question papers and their answers are discussed in the class. 4.B.E. project evaluation is carried in regular intervals. 5.For First Year students prelim exams are conducted prior to University Exams. 6.MOODLE learning Management System is available for the students to go through the lecture slides and other teaching materials. Link - http://14.142.126.126/moodle 7.Conducting quiz/tests at regular intervals. 8.Absenteeism is dealt by sending letters to the parents of students and a student parent meeting is held. 9.Improvements of slow learners are monitored. 10.Peer teaching carried out wherever possible. 11. Mini Projects were introduced in every subject, so mini project exhibitions were conducted and all the other staff and students were asked to attend the exhibitions. This boosted the confidence of students while facing the final viva of mini projects in their respective subjects and also it gives insight to the junior students about what type of work needs to be done in their upcoming semesters.

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

Academic year starts as prescribed by Mumbai University. The university publishes the academic calendar containing plans for curricular and co-curricular activities. Institution's academic calendar is prepared in concurrence with the University calendar. The academic calendar is made available to all faculties before the commencement of the semester. Lesson plans are prepared based on the academic calendar. The lesson plan comprises of content, learning aid, methodology and the approach towards the course

outcomes. Academic calendar of the Institute includes schedule of ? Curricular activities ? Technical events ? Class tests ? Submission of defaulter lists ? List of holidays ? Extracurricular activities. The institution adheres to the academic calendar and conduct Internal Evaluation. The adherence in conducting the Internal Examination is monitored by the Academic Committee of each Department. Faculty adheres to the planned dates while conducting the Internal Assessment Tests and publication of results. The laboratory Schedule is prepared by the time-table committee and batch-wise details are specified in the laboratory schedule. Time Table of regular lectures for the entire semester is prepared and displayed on the notice board. In case of poor performance by any student, his/her parent is called for a meeting and requested to monitor and encourage the student.

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.xavier.ac.in/AQAR%20AY%202019-20.php

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
1T01028	BE	EXTC	66	66	100
1T00728	BE	COMPUTER ENGINEERING	68	68	100
1T01228	BE	IT	75	75	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.xavier.ac.in/AQAR%20AY%202019-20.php

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
Minor Projects	365	University of Mumbai	0.25	0
Minor Projects	365	University of Mumbai	0.35	0
Minor Projects	365	University of Mumbai	0.25	0
Minor Projects	365	University of Mumbai	0.25	0
Minor Projects	365	University of Mumbai	0.15	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
Seminar on Innovation and Patenting	COMP,IT,EXTC	18/01/2020
Seminar on Innovative Designs	COMP,IT,EXTC	06/01/2020

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
IoT Medicine Vending system	Anurag Bambardekar, Rahul Debhri ,Parth Shah ,Shubham Maurya	AICTE	20/12/2019	Participation in Regional Convention

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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	Nill	Nill	Nill	Nill	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
2	0	0

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

Name of the Department	Number of PhD's Awarded
NIL	0

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	Please see the attached file	53	Nill

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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
IT	1
FE	2

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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
NIL	Nill	Nill	Nill	Nill	Nill	0

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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
NIL	Nill	Nill	Nill	Nill	0	Nill

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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	Nill	163	Nill	Nill
Resource persons	Nill	1	Nill	Nill

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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
Nill	Please see the attached file	Nill	Nill

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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
NIL	Nill	Nill	Nill

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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
Cancer Awareness	NSS Unit of Xavier Institute of Engineering	Cancer Awareness Session	1	29
AIDS Awareness	NSS Unit of Xavier	AIDS Awareness	1	39

		Programme			
	Institute of Engineering				
Swachh Bharat	Xavier Institute of Engineering and Railway Station of Mahim, Mumbai	Mahim Railway Station Cleaning	1	28
Swachh Bharat	Indranil SenGuptaTeam	Mahim Beach cleaning	1	33
Swachh Bharat	Indranil SenGupta Team	Mahim Beach cleaning	1	36
Swachh Bharat	Indranil SenGupta Team	Mahim Beach cleaning	1	38
Swachh Bharat	Indranil SenGupta Team	Mahim Beach cleanup	1	37
Swachh Bharat	Afroz Shah Foundation	Versova Beach cleanup (on Coastal Day)	1	36
Swachh Bharat	Afroz Shah Foundation	Beach Cleanup At Versova	1	29
Swachh Bharat	Afroz Shah Foundation	Beach Cleanup At Versova	1	42
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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	Nill	Nill	Nill
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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
Nill	Nill	Please see the attached file	Nill	Nill	Nill
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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
HYFUNN	15/09/2019	Posting, Hosting,	43

	Searching, Exploring

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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
65.02	65.01

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
Video Centre	Nill
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

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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
SLIM-21	Partially	3.3.0 of 2016	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	12870	3377399	156	148733	13026	3526132
Reference Books	576	Nill	0	Nill	576	Nill
e-Books	Nill	Nill	Nill	Nill	0	Nill
Journals	12	24074	7	18086	19	42160
e-Journals	275	666868	0	Nill	275	666868
Digital Database	Nill	Nill	Nill	Nill	Nill	Nill

CD & Video	747	Nill	Nill	Nill	747	Nill
Library Automation	1	162000	Nill	Nill	1	162000
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
Others(s pecify)	Nill	Nill	Nill	Nill	Nill	Nill

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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
NIL	Nill	Nill	Nill

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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	528	373	528	445	72	18	52	40	13
Added	95	95	95	95	0	0	0	35	0
Total	623	468	623	540	72	18	52	75	13

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

75 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
NIL	Nill

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
132.79	98.17	197.79	97.82

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)

The Institute has an Administrative Department where the Admin Executive and junior admin executive monitor the day to day cleaning. There are contract

workers for electric maintenance and repairs. Institute has an electrician and an assistant electrician who look into all electric related works. For any major civil maintenance the trust will hire people such as civil contractors to take care of it. Adequate in-house and contract workers are employed to take care of hygiene, cleanliness of the campus so as to provide a healthy environment. Over and above, the contract workers and the peons also contribute in maintaining the cleanliness of the college. Classrooms, Labs, Seminar hall, etc. are cleaned and maintained regularly by these workers. Wash rooms are well maintained. Garden and plants are well maintained for which two workers are separately appointed as Garden Attendants. The Garden is well maintained and plants are watered regularly. The maintenance and working condition of all properties/equipment on the campus is ensured through Annual maintenance contracts (AMC) for the elevators, intercoms, air conditioners, water purifiers and water coolers. Students and faculty members are provided with separate login credentials to access the internet. Access to the internet is available in the lab even after college working hours. Apart from the regular lab classes, students are offered value added courses through which they can practice and learn programming languages. Lab Assistants work under the supervision of the System administrator and maintain the machines efficiently. If the problem is very minor, the technical support staff of the lab will rectify them. For any major failures, the support of vendors shall be taken. Periodic maintenance is carried out by regularly cleaning the labs, equipment updating all the software.

https://www.xavier.ac.in/Supporting%20Staff.php

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	NIL	Nill	Nill
Financial Support from Other Sources			
a) National	Refer attached file	199	11373761.5
b)International	NIL	Nill	Nill
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
Refer attached file	Nill	2423	Nill
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	Number of students who have passedin the comp. exam	Number of studentsp placed

| 2019 | career counseling, bridge courses and soft skill development | Nill | 751 | Nill | 144 |
| 2019 | Aptitude test, NPTEL courses | 188 | Nill | 23 | Nill |

[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
0	0	0

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
Refer attached file	1657	144	Refer attached file	Nill	16

[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	Nill	Refer attached file	Nill	Nill	Nill

[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
GATE	1
CAT	2
TOFEL	6
GRE	8
Any Other	5

[View File](#)

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

Activity	Level	Number of Participants
Refer the attached file	Nill	Nill
[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
2019	First prize	National	Nill	1	XIECE171 846	Archana Sahoo
No file uploaded.						

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

The aim of forming Students' Council (SC) is to involve the students in academic, co-curricular extracurricular activities. Through these activities Students Council (SC) members learn planning, organization, analysis, estimation and execution along with trouble shooting, which help in their comprehensive development. Students' Council members are General Secretary, Assistant General Secretary, Secretary Assistant Secretary for Technical, Cultural, Sports and outreach program, each, elected by the college. XIE has different committees such as Grievance redressal, Anti-Ragging, Cultural, Sports, Technical events, Magazine and Outreach programs. Following are the narrative of functions and events conducted by various Committees: 1. Students' Council: As per university guidelines, this council is established every year in the Institute and it performs its duties as prescribed. 2. Student Grievance: This committee addresses student grievances and maintains harmony and discipline among the students. 3. Anti-Ragging: This committee ensures zero ragging incidents in the Institute and also spreads awareness among students against any type of ragging activities, as per the laws. 4. Cultural: This committee co-ordinates various cultural activities and events throughout the year. "Spandan" is our annual social gathering which showcases cultural talent of students. The intercollegiate cultural competition is organized by them. 5. Sport: This Committee organizes different indoor and outdoor sports events like Cricket, Football, Carrom, Chess etc. Our students actively participate in various sports of intercollegiate and interuniversity level competitions. 6. Technical Activities: Every Department is having active Student's chapter associated with the Institution of Engineers, India. These chapters conduct various programs such as arranging Expert lectures and Industrial visits to name a few. Institute organizes technical symposium known as "Transmission" every year consisting of various technical competitions that include Paper Presentation, Technical Quiz, Robot War, Model Making etc. Each department organizes these events that motivate students to take part and enhance their technical ability. 7. Magazine: 'Connexieon' is our annual magazine published by Magazine committee. Students express their talent in the form of writing articles, poetry, interviews of eminent personalities etc. This exercise imbibes societal values in our students. 8. Extension Activities: Any education is incomplete without social awareness. "Outreach Program committee" is active in carrying out different activities such as visit to Tribal areas like Talasari, Manor etc, In addition to it Blood donation Camp, Swachcha Bharat Abhiyan, Yoga day, Tree plantation etc. are also held.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

This Association provides a forum for the students to maintain and spread their links with the Institute. It provides numerous services to current students and alumni alike. All graduate students do not become members of Alumni Association. Membership of the Alumni Association can be obtained by registering at the Institute. The Association is involved in the following activities : • Alumni Reunions • Networking with industry • Association mailings • Interacting with other Jesuit Alumni • Special projects etc. In general Alumni Association provides many opportunities in which the alumni can participate, such as promoting programs, assisting the future students in difficulties etc. By being involved with the Institute (Alumni Association) you are not only helping yourself, but also helping current and future students thereby making the world a better place to live in. We are looking for our ex-students to come forward and start the process of making this Alumni Association a strong one so that the bonds of the students get stronger and promote the understanding between the students of the past and present. In this way our Alumni can develop effective and responsible leadership through contact and experience in various projects and programs, thereby enhancing the education of the students and preparing them to serve as future alumni leaders.

5.4.2 – No. of enrolled Alumni:

448

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

242000

5.4.4 – Meetings/activities organized by Alumni Association :

4 meetings, 2 activities, 1 planned activity (not implemented due to lockdown)

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)

Xavier Institute of Engineering (XIE) management believes in overall development of the institution and strives to achieve excellence in every aspect such as academics administration and accounts. XIE also imparts cultural, social, technological benefits to the society through different programs by involving each and every stake holder and it believes in a participative management while strongly adhering to its mission and vision. XIE believes in 360 degree education with emphasis on Academic Skills, development Extracurricular and Carrier development activities with ethics. XIE affirms shared values of social justice, vibrant spirituality, environmental sustainability, technological innovation and academic excellence. Jesuit education entails educating the whole person, encouraging students to become well - rounded people who contribute to the greater good. In pursuit of excellence IQAC is in place and has become a part of institution's system and provides prospective plans for the institute and works towards realization of academic goals. All the goals and plans are then put up before the governing council (GC) and the college development committee (CDC) for review and approval. The institute has a well defined hierarchical structure which clearly defines the roles and duties of every individual. The management of XIE truly believes in decentralization and participative management. Faculties are involved in the decision making process. They are also made a part of various committees. The fully functional committees are solely responsible to conduct

meetings pertaining to their committee requirement and implement them. The XIE samachar is circulated as a weekly newsletter to all its stake holders. Every event of XIE and its information is well documented in samchar and is shared with all the stake holders. The account section maintains all the budgetary requirements of the college with complete transparency. The proposals for laboratory expense, teaching learning, research and development etc. are carefully analyzed and submitted to the accounts department. The governing council (GC) and or college development committee (CDC) goes through all the budget proposals, scrutinize them before giving a nod of approval.

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

Partial

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	The Institute is affiliated to Mumbai University and its admission is carried out by the Directorate of Technical Education (DTE), Govt. of Maharashtra. Institution is a minority Institute (religious-Christian), hence category quota such as SC, ST, OBC, SBC and others are not applicable to it. Admission process is conducted by the Directorate of Technical Education (DTE) Maharashtra. Till date, Institute is able to attract students with nearly 100 intake capacity.
Industry Interaction / Collaboration	The Institute regularly invites and visits industrial professionals for promoting continuous industry-academic interaction. The institute encourages industry experts and professionals to contribute as the advisory members to the institute.
Human Resource Management	The Institute has ensured that its human resources recruitment and management practices are as per the prevalent rules and regulations of statutory and regulatory bodies like AICTE, DTE, MUMBAI UNIVERSITY and others. Also the institute encourages the staff members to upgrade their capabilities by attending workshops, STTP, FDP, Conferences.
Library, ICT and Physical Infrastructure / Instrumentation	Library comprises approximately13026 volumes with 4764 titles, 18 national and one international journals, 04 daily newspapers. Library has a reference section with a photocopy facility. The Library is using commercial software SLIM 21 for automation of Library Services, dedicated computers for the students to

	access Moodle server, Science Direct ,NPTEL, SWAYAM are also available. Institute has a very strong IT infrastructure with regular updates, in terms of hardware, software and firewall system. The institute has a massive network of 623 computers with 75 Mbps internet connectivity for academic and research needs. Centralized firewall cyberoam is used for network monitoring, management and internet security.
Curriculum Development	In the context of Curriculum development, the Institute successfully implemented the curriculum as per the norms of the University of Mumbai.Being an affiliated Institute, it does not have much flexibility in academic curriculum. Generally, Mumbai University reviews its curriculum in a cycle of 4-5 years and incorporates those changes as deemed fit considering various advancement in the respective fields. Also, as an Academia-Industry partnership, continuous interaction with the leaders/experts from the Industry and experienced academicians from reputed organisations are held. The Institute takes into cognisance such feedbacks and recommendations to work on latest technical knowledge required by the industry, and suitably introduces supplementary add-on programs so as to develop the skill sets of the students. Currently, all the programs are following the CBCS curriculum prescribed by Mumbai University
Teaching and Learning	The Institute encourages the teaching faculty to enhance their quality of teaching - learning practices for effective implementation outcome-based education through continuous interactions and the relevant feedback system. To cater to the needs of the weaker students, remedial classes are conducted. Students are assigned with faculties as mentors to look after the academic as well as personal counselling. The institute offers Value Added Courses in specialized areas of departments ,designed by Faculty members to make students Industry ready Due to pandemic, the even semester was wound up online.
Examination and Evaluation	The Institute has set the highest priority for conducting the internal

	and end semester examination and continuous evaluation schemes as per the norms of the university. Expecting online mode of examination, the institute provided sample multiple choice question papers for practice.
Research and Development	To promote the research culture, the Institute has taken initiatives to advance research in the coming years. In this direction, the institute has signed up MOUs with HYFUNN company, Mumbai. and is in the process of starting collaborated research activities in various academic programmes. Five faculties received the minor research grant during the academic year 2019-20.

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

E-governace area	Details
Finance and Accounts	The institute has dedicated Tally software to maintain accounts records for every financial year.
Examination	The institute has an in-house mark sheet template developed by the exam section to prepare the result of S.E/T.E examinations.

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
Nill	Refer attached file	Refer attachment	Nill	11300
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)
Nill	Refer attached file	Nill	Nill	Nill	Nill	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
Refer attached file	Nill	Nill	Nill	Nill

View File

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	1	3	4

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
College has been instrumental in introducing various welfare schemes such as Gratuity to the staff, Provident fund, vacation, Leaves (casual leaves , medical leaves, earned leaves), Maternity leaves, Financial assistance to faculties to attend workshops/ conferences STTPs etc.	College has been instrumental by introducing various welfare schemes such as Gratuity to the staff, Provident fund, Leaves (casual leaves , medical leaves, earned leaves), Maternity leaves	A suitable insurance coverage to students in the event of an accident etc. Reimbursement and partial payment to students for projects and other activities. Tie up with a adjoining health centre to provide medical assistance to XIE students on priority basis. Felicitation of topper students.

6.4 – Financial Management and Resource Mobilization

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

All accounts are maintained by the accounts department as per the total admission that has taken place by following the rules and regulations of the fee regulation authority of the state. Internal accountants shall verify the books of accounts on a day to day basis. Entries done by one accountants is/are verified by the other accountants. Errors found (if any) are analyzed and fixed instantly. External auditor shall verify all the account books once in a year and provide their input to incorporate the required changes as per the statutory requirements.

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
Society Grant	12892931	For education

No file uploaded.

6.4.3 – Total corpus fund generated

9375272

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	No	Nill	No	Nill
Administrative	No	Nill	No	Nill

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

The following activities are conducted by the college where parents are invited to attend FE Orientation Felicitation of the SE-TE toppers Convocation Defaulter Meeting

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

The following development programmes were conducted in which supporting staff also participated AY 2019-20: Universal Apolistic Preferences session on 06th July 2019 AY 2019-20: Herbal medicines talk by Vedruna Holistic Health Care Centre Gujarat on 03rd Jan 2020

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

Following initiatives were taken during the AY: 2019-20 To register XIE Alumni body(registration page from website) https://www.xavier.ac.in/Alumni.php To start the Mumbai University NSS cell in the institute. To introduce Value Added Courses in each department. To standardise IAT Question Paper template To conduct industrial visits, workshops and conferences to learn about the latest developments in different Engineering domains and thus pursue learning in recent areas of research and technology. To conduct activities under ISTE Chapter

6.5.5 – Internal Quality Assurance System Details

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

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
Nill	Refer attached file	Nill	Nill	Nill	Nill

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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
Induction Programme for FE and DSE girls students	03/10/2019	03/10/2019	46	Nill

Awards for Woman of Creativity and Woman of Intelligence	27/02/2020	27/02/2020	11	Nill
Awards for the Best All Rounder Gilr Student	10/07/2019	10/07/2019	9	Nill
Session on Women Against Violence	04/03/2020	04/03/2020	58	Nill
International woman's day celebration	09/03/2020	09/03/2020	150	Nill
Poster Competition	04/03/2020	04/03/2020	22	Nill
Spandan-Cultural Program	10/01/2020	12/01/2020	42	64
SPARX-Sport Activities	26/08/2019	27/09/2019	311	713

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
One of the green initiatives taken by Xavier Institute of Engineering is to use solar energy to meet a part of the power requirement of the institute. This was initiated in 2014 and a 60kW rooftop power grid was installed. It is further expanded by adding another 44kW solar system in the year 2018. In the year 2019-20, the total power requirement of the Institute was 72060 units, out of which 45316 units were generated by renewable sources of energy through solar panels.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled students	No	0
Any other similar facility	Yes	0

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	Nill	02/01/2019	1	Industrial Visit to Home Automation Centre	To give ideas about the latest technology and developments taking place in the world.	64
2020	1	Nill	18/02/2020	1	TEDxXIE	TEDx - Ideas worth Spreading Theme : Redefining Reality	81
Nill	Nill	Nill	Nill	Nill	Please see the attached file	Please see the attached file	Nill

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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)
Code of conduct for the students	02/01/2019	The objective of code of conduct for student's is "To help every Xavierite to nurture the joy of excellence in their chosen domain of specialization for the service of humankind and ecology". Student code of conduct is available on the Institute website which includes administrative guidelines, disciplinary guidelines, student associations and events.
Code of conduct for Faculty	02/01/2019	The faculty service book is available in the Institute. It provides all the required information for faculty

and staff. It helps in planning and navigating through their career in the Institute. It includes Institute vision mission, preamble, definitions, employee classification, recruitment and employment policy, recruitment selection process, probation confirmation, grade and pay structure, general working conditions, leave facilities, sponsorship for higher studies, training, workshops seminars, STTPs, etc., duties of teachers, code of conduct, misconduct, disciplinary actions and many more.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Celebration of Feast of St. Ignatius of Loyola	31/07/2019	31/07/2019	40
Nurturing Human Values	15/02/2020	15/02/2020	70
Please see the attached file	Nil	Nil	Nil
[View File](#)			

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

1.Green Campus, 2. Utilization of Solar Energy 3. Paperless Office 4. Students, staff using a) Bicycles b) Public Transport 5. Plastic free Campus 6. Usage of LED bulbs 1.Green Campus: The institute is located centrally at Mahim causeway with a large number of trees. XIE has a 3-acre Green Campus in the heart of Mumbai city with good landscaping. Tree plantation drives by our own staff and students help in encouraging and creating sensitivity towards the environment which helps in providing fresh air for the staff and students of our Institute. Regular care is taken by two gardeners by watering Plants Trees daily. The Institute received a Green Mission Award, presented by ONP Solar Pvt Ltd. The Institute classrooms are well ventilated and illuminated by natural light. It has an open campus and a large number of trees. 2. Utilization of Solar Energy: The Institute is using a 104 kW Solar Power plant as a renewable energy source. Waste management is carried out locally and with the help of Brihanmumbai Municipal Corporation (BMC). 3. Paperless Office: The Institute uses Moodle as a learning management system which benefits the students with an innovative and creative learning environment. Various course content and resources like ppts, Question Banks and links to e- resources are uploaded and made available to all our students which enhances their overall learning experience. The Institute has installed a paperless work system with the use of Moodle server and updated the website with all the upcoming events. 4. Students, Staff using a) Bicycles

b) Public Transport: The students and staff residing near the college either commute by bicycle or walk to the college. Many students and staff members use public transport facilities as well as pooling the car which helps in taking steps towards environmental protection. 5. Plastic Free Campus: Continuous efforts are put in to make the campus plastic free. Dustbins are placed at appropriate locations that help achieve a clean campus. On Science Day, we, the Xavierites, have decided to take an initiative to bring awareness in the society on the usage of plastic, as each one of us can bring the change…! A poster portraying the 'Harmful effects of plastic on human health and environment and the Alternatives to Plastic' was made by FE students. They gave a short presentation of 5 minutes to each department i.e., IT, COMP and EXTC. Similarly, all non – teaching staff including library and canteen staff were given an insight into the prohibition of use of the plastic. 6. Usage of LED bulbs The benefits of using LED bulbs in the premises has increased the energy efficiency and lowered the electric bills and a longer bulb life with a better and safer light source system.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Title of the Practice Academic performance improvement program for FE students. Objectives of the Practice Engineering curriculum is more demanding and involves a lot of problem solving. Our program is intended to improve and enhance the students' ability to understand the fundamentals of Engineering and solve a variety of problems so that it helps them to perform better at the University Exams. The Context Students who enroll in the first year are often oblivious to the semester pattern of the University and they face difficulties in managing their time and study. The subjects in the first year are totally different as compared to their pre-graduate levels. In view of this, the performance improvement program introduced by XIE really prepares them to face the University exams. The Practice The Academic performance improvement program has been successfully planned and implemented at semester-1 of the Academic year, wherein, revision classes on topics or chapters important from University exam point of view have been discussed and past University exam papers are solved. Also, the Preliminary Exams conducted for the students has helped them to assess their strengths and weaknesses, thereby helping them to improve on their weak areas and prepare themselves for the final exams. However, owing to the pandemic and uncertainty in the conduction of IAT-2 and University exams in semester-2, this program could not be carried out in semester-2 of 2019-20. Evidence of Success The practice followed in semester-1, has successively resulted in improving the University results. The evaluated answer sheets are shared with students. The bright students get to know where they can improve further and the weaker students can identify on how to score better. Problems Encountered and Resources Required The students who have not performed well during the semester and who need some practice and attention come in small numbers for the revision lectures. Also, as the University schedule for commencement of term is late (mostly first week of August), time constraint exists in finishing the course and conducting the revision sessions. Therefore, early commencement of lectures will help in resolving this issue. 2. Title of the Practice: 'XIE- Samachar': Weekly newsletter of the college. Objectives of the Practice To inform the students and staff about the events and activities that are organized in college and to laud the individual academic achievements of the staff and students of the college. The Context To keep the students, their parents, faculty members, staff, and management as well as the alumni informed about the events and activities that take place in college and to be up-to-date with life at XIE. The Practice The college weekly newsletter the XIE Samachar consists of the news of placements, academic results, internship opportunities, staff achievements, college and departmental events and so on.

It is sent out each week to the staff and students. It is also uploaded on the college website. This keeps the staff and students updated and also it encourages them to share their own achievements in the Samachar. The events and activities organized by different departments and the college also gain recognition as the information gets conveyed to the parents, the alumni through Samachar. This way, the social media presence of the XIE-Samachar is gradually established. This will help and convey the news of college events and activities to reach a larger group of audience. Evidence of Success The Samachar celebrates all the academic and professional achievements of the staff and students. This encourages them to take up more academic endeavors like research, value-added courses, FDP, conferences, internships, etc. and share the information regularly. It also encourages different cells and departments in the college to organize different activities regularly and share them with Samachar news. Problems Encountered and Resources Required More and more students need to be encouraged to share their individual academic achievements. The social media presence still needs some more strengthening to have a wider reach. 3. Title of the Practice National Service Scheme (NSS) Objectives of the Practice It is a well-known fact that the youth of any country is a great asset and are indeed the future of the country. NSS is one such initiative that allows students to participate and contribute for the cause of the development of community and the nation. They identify the needs and problems of the community and utilize their knowledge in finding practical solutions to individual and community problems. NSS helps in gaining skills in mobilizing community participation, acquiring leadership skills, practicing national integration and social harmony. The Context The NSS unit started its activities in the beginning of the academic year with active participation of NSS volunteers and the Programme Officer. The Motto of NSS Not Me But You, reflects on the essence of democratic living and upholds the need of selfless service by volunteers. NSS helps the students to develop appreciate others views and shows consideration towards other living beings. The philosophy of the NSS is a good canon with a motto, that the welfare of an individual is ultimately dependent on the welfare of the society as a whole and therefore, the NSS volunteers shall work and strive for the well-being of the society. The Practice The NSS Unit of the Institute believes in doing rather than preaching, It has taken up activities which resonate with the vision of the Institute-Human being for others. NSS Volunteers participated in various activities of residential camp such as Shramadan Programme (Dam making and road filling), performed Street play for creating an awareness of "Adverse effects of consuming alcohol", teaching students of villages, collection for flood relief for the people of Kolhapur Sangli, assisted Mahim Traffic Police on occasion of Anant Chaturdashi, cleanliness drive Wall Painting at Mahim Railway station to spread the message of Swachta Abhiyan. One of the main objectives of the NSS cell is to understand the community in which they work, the relation to their community and identify the needs and problems of the community and involve them in problem-solving. In line with this, the cell has taken up Tree Plantation drive, Beach Cleaning at Mahim Versova beaches, created awareness in students for disposing plastic in a proper way so that it can be recycled by collecting the plastic bottles and giving them to Bisleri Organization for recycling and arranging Blood Donations camps. The institute believes in unity of mind and the heart. Body, soul, and spirit are each different from one another, but they function not separately but in unison with each other for the welfare of the whole person. The NSS cell has organized sessions on Yoga, Meditation, cancer awareness and has taken Pledge for Fit India Movement and Anti-Tobacco to ensure a healthy and a better nation. Evidence of Success The selfless service of volunteers has shown their capability in serving our society by working in the field practically. This has enabled students to foresee and face real world problems and find solutions, indulge in preparation activities, Team building, Planning etc. With NSS regular special camp activities, students learn to

respect and value the culture and heritage of the nation. Problems Encountered and Resources Required For some students it's difficult to manage both academic and extra curricular activities simultaneously. Motivating them to be a part of NSS is a challenge for such students. For some activities the finance required is more than expected.

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

https://www.xavier.ac.in/AQAR%20AY%202019-20.php

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

The Vision of the Institute, is to "To nurture the joy of excellence in a world of high technology." The Institute endeavours to provide value-based education to enable the students to face the challenges of modern life. It works for the holistic development of the students' acumen and motivates them to use their acquired knowledge for the development of the community. The Institute was ranked 5th and 3rd among Mumbai private engineering Institutes by TOI survey in June 2013 and June 2015 respectively. XIE ranked among the top 30 Engineering Institutes [the 30 include 10 IITs and 7 NITs] in the country (about 3800 Institutes) with a high "perceptual score" by TOI survey in May 2018. The Institute received an Education Leadership Award and a Most Promising College of 2019 award by ABP News Channel and by Beginup Research Intelligence respectively. The Institute ranked among the Top Twenty Promising Institutes in Maharashtra by the Higher Education Review of 2018. The institute received a 2018 and 2019 Green Mission Award, presented by ONP Solar Pvt Ltd. The Institute provides the best amenities required for students to enhance their academics, technical skills, co-curricular activities and extra-curricular activities and thus nurtures the joy of excellence. XIE Samachar, the official weekly newsletter of XIE applauds and appreciates the academic and professional achievements of the faculty and students. The mentors closely monitor their mentees performance and provide awareness and guidance on the competitive examinations, higher studies and the requirements needed for placements. Spandan is the annual inter-Institute Festival organized every year at XIE. These events help to enhance the knowledge of the students and help them to acquire organizational skills. Sparx the annual intra-Institute sports festival that provides abundant opportunities for the holistic development of students and staff through sports. Vital skills like leadership, collaboration, creativity, problem-solving and social and cultural awareness are essential in today's world. XIE has signed MoU with foreign universities that help our faculty and students to get a global experience needed to succeed in this increasingly complex and competitive world and acquire knowledge that sets them apart from others and opens doors to work globally. XIE Outreach Program (XOP) gives XIE, a Jesuit identity. Under this program students engage themselves in social service activities like teaching English and Mathematics to slum children talking to them about moral values, health and hygienic conditions and motivating them to get involved in education. The National Service Scheme (NSS) is beneficial to both students as well as the society. NSS helps the student to grow individually and also as a group. NSS unit of Xavier Institute of Engineering has conducted and organized various activities during the A.Y 2019-20. The greatest gift that our students get is the joy on their faces while helping the society through XOP. Thus XIE endeavors to nurture the joy of excellence in the lives of our faculty, students and the communities. It reaches out to bring joy, in the rapidly changing technological scenario.

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

Keeping up with the vision of the Institute, the management proposes to expedite the Accreditation process of the Departments of Electronics and Telecommunication and Information Technology. In order to provide a platform for managing the academic and administrative activities of the Institute, the management proposes to put in place a management information system, either update the existing Moodle to a new version or bring in ERP. This will provide a platform for the integration of academic, accounting, admissions, examinations and student activities of the Institute under one roof. The Management of XIE is notably well known for designing its own stringent quality standards of education whilst keeping in view the challenges that are being faced by the education sector due to increasing global competition. In line with upholding the standards of quality in teaching learning, the Institute proposes to initiate the academic audit of the courses across all the Departments. Also, properly coining the statements of the course outcomes and their validation by domain experts is proposed, In line with its vision, the Departments have planned to increase the number of value added courses and student development programmes. Such courses are intended to enhance the knowledge and skill set of students which will in turn profitably increase their opportunities of employability. Workshops on technical paper writing and IPR through E-cell shall be encouraged to ensure quality enrichment of the learning process amongst all the students. Any Institute grows if there is a proper feedback system in place. The Institute plans to streamline the feedback process taken from all the stakeholders, analyze their inputs and implement the suggestions. The learning outcomes of students is fundamental to outcome based education. Differentiating between slow and fast learners and suggesting suitable academic challenges is crucial for enhanced learning. The Institute proposes to devise policies to differentiate slow and fast learners and counsel them to bring in improvement in their academic performance. Also, to enrich the co-curricular experience of students, a technical week comprising of guest lectures, seminars, workshops, skilled based exercises, placement activities are also planned. Consultancy is an effective way to engage with any industry and it promotes and enhances the profile of the faculty thereby creating a mutually beneficial opportunity for both the faculty and the Institute. The management proposes to initiate research and consultancy services in future. The Institute plans to increase the activities conducted under the NSS cell, thereby providing opportunities to students to serve the community. This will also help in developing the moral values and all round development of their acumen.