

SELF ASSESSMENT REPORT (REVISED)

FOR ACCREDITATION OF
DIPLOMA IN ELECTRONICS AND
TELECOMMUNICATION PROGRAMME

NATIONAL BOARD OF ACCREDITATION
(NBA)

NEW DELHI



ST. XAVIER'S TECHNICAL INSTITUTE,
MAHIM CAUSEWAY, MAHIM, MUMBAI

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PART A: Institutional Information

1. Name and Address of the Institution: St. Xavier's Technical Institute,
Mahim Causeway, Mahim,
Mumbai – 400016.

2. Name and Address of the Directorate of Technical Education: Dr. Pramod.P.Naik
Director,
Directorate of Technical
Education, Maharashtra
State,
3, Mahapalika Marg, Post
Box No. 1967, Mumbai
400001.

3. Year of Establishment: 1937

4. Type of the Institution

University
Deemed University
Affiliated
☒ Autonomous

5. Ownership Status:

Central Government
State Government
☒ Government Aided
Self – Financing
Trust
☒ Society
Section 25 Company
Self Financing
Any Other (Please specify)

6. Other Academic Institutions of the Trust/Society/etc., if any:

Sr. No.	Name of the institution	Year of Establishment	Programs of Study	Location
1.	Xavier's Institute of Engineering	2005	B.E.	Mumbai
2.	St. Xavier's College	1869	Arts & Science	Mumbai
3.	Loyola College of Engineering	2008	BE	Andhra Pradesh
4.	Xavier University	2013		Odisha
5.	Xavier University	2017		Kolkata
6.	Loyola College	1925		Chennai
7.	XLRI	1949		Jharkhand
And over 200 colleges and Universities across the globe.				

7. Details of all the programs being offered by the institutions under consideration:

Name of the Program	Program Applied Level	Start of Year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation Status	From	To	Program for consideration	Program Duration
Electronics & Telecommunication Engineering	Diploma	2007	2007	80	Yes	120	Not accredited	16/02/2019	17/02/2019	Yes	3
Computer Engineering	Diploma	2024	2024	60	Yes	120	Not applied			No	3

7.a) Accreditation History

Sr. No.	Name of the Department	Name of the Program	Year of 1 st Accreditation (if applicable)	Year of 2 nd Accreditation (if applicable)	Year of 3 rd Accreditation (if applicable)
1.	Electronics & Telecommunication Engineering.	Electronics & Telecommunication Engineering.	---	---	---

7.b) Programs to be considered for Accreditation vide this application:

Sr. No.	Level	Discipline	Program
1.	Diploma	Engineering & Technology.	Electronics & Telecommunication Engineering.

8. Total number of Employees;

A. Regular* Employees (Faculty and Staff)

Engineering and Technology Diploma shift 1 ✓

Items		(2026/2027)		(2025/2026)		CAY (2024/2025)		CAY m1 (2023/2024)		CAY m2 (2022/2023)	
		Min	Max	Min	Max	Min	Min	Max	Max	Min	Max
Faculty in Engineering & Technology	M	10	10	10	10	11	11	11	11	11	11
	F	02	02	02	02	02	02	02	02	02	02
Faculty in Science & Humanities	M	00	00	00	00	00	00	00	00	00	00
	F	01	01	01	01	01	01	01	01	01	01
Non-Teaching Staff	M	06	06	06	06	06	06	06	06	06	06
	F	08	08	08	08	08	08	08	08	08	08

B. Contractual Staff (Not covered in 8. A)

Engineering and Technology Diploma shift 1 ✓

Items		(2026/2027)		(2025/2026)		CAY (2024/2025)		CAY m1 (2023/2024)		CAY m2 (2022/2023)	
		Min	Max	Min	Max	Min	Min	Max	Max	Min	Max
Faculty in Engineering & Technology	M	00	00	00	00	00	00	00	00	00	00
	F	00	00	00	00	00	00	00	00	00	00
Faculty in Science & Humanities	M	00	00	00	00	00	00	00	00	00	00
	F	00	00	00	00	00	00	00	00	00	00
Non-Teaching Staff	M	00	00	00	00	00	00	00	00	00	00
	F	00	00	00	00	00	00	00	00	00	00

9. Total number of students:

Engineering and Technology Diploma shift 1 ✓

Items	CAY (2026/2027)	CAY m1 (2025/2026)	CAY m2 (2024/2025)	CAY m3 (2023/2024)	CAY m4 (2022/2023)	CAY m5 (2021/2022)
Total no. of boys		230	265	262	273	250
Total no. of girls		42	53	50	55	42
Total no. of students		272	318	312	328	292

10. Contact Information of the Head of the Institution and NBA coordinator:**Head of the Institution:**

Name : Dr. Shivaji B. Ghungrad

Designation : Principal

Mobile No : 8355919921

Email id : principal@xavieretech.com

NBA Coordinator (if designated) : _

PART B: Criteria Summary

Criteria Number	Criteria	Total Marks	Institute Marks
1.	Vision, Mission and Program Educational Objectives	50	50
2.	Program Curriculum and Teaching – Learning Processes	200	200
3.	Course Outcomes and Program Outcomes	100	100
4.	Students' Performance	200	119.76
5.	Faculty Information and Contributions	150	121.26
6.	Facilities and Technical Support	100	100
7.	Continuous Improvement	75	75
	Institute Level Criteria		
8.	Student Support Systems	50	50
9.	Governance, Institutional Support and Financial Resources	75	75
	TOTAL	1000	891

CRITERION 1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	50
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1.1. STATE THE VISION AND MISSION OF THE DEPARTMENT AND INSTITUTE (5) VISION OF THE INSTITUTE

Institute Vision:

- To nurture the joy of excellence in a world of high technology.

Institute Mission:

- To strive to match global standards in technical education by
 - Interaction with Industry
 - Continuous Staff Training
 - Development of Quality of life of Staff and Students.

Department Vision:

- To become a centre of excellence and to produce high quality, self-motivated, creative and ethical diploma engineers and technologists, contributing effectively to universal engineering and contemporary education.

Department Mission:

- M1. To prepare students of the Department of Electronics and Communication Engineering for a brilliant career/entrepreneurship along with the development of knowledge, skills, attitude and teamwork ideal for a professional through the designed programme.
- M2. The faculty of the Department continually seeks to enhance their knowledge to competently lead and empower students.
- M3. To impart high quality engineering education and ethics to the students & to provide the best facilities, infrastructure, and environment to the students and faculty members, creating an ambience conducive for excellence in technical education and research.

1.2. STATE THE PROGRAM EDUCATIONAL OBJECTIVES (PEOs) (5)**PROGRAM EDUCATIONAL OBJECTIVES**

PEO1: To produce diploma holders who have the ability to demonstrate technical competence in the fields of Electronics and Tele communication engineering and develop solutions to the problems.

PEO2: To produce diploma holders who would be able to take individual responsibility and to work as a part of a team towards the fulfilment of both individual and organizational goals.

PEO3: To prepare the students to engage in professional development through self-study, graduate and professional studies in engineering, management and research.

1.3. INDICATE WHERE THE VISION, MISSION AND PEOS ARE PUBLISHED AND DISSEMINATED AMONG STAKEHOLDERS (15)

The Vision, Mission and PEOs are published and disseminated through

- Institute website : <https://xaviertech.ac.in>
- Department website : <https://xaviertech.ac.in/extc>
- Principal cabin
- HoD cabin
- TPO cabin
- Examination cell
- Departmental Notice Boards
- Departmental Corridors
- Class Rooms
- Faculty Rooms
- Laboratories
- Course files
- Prominent locations in the institution
- Curriculum
- Lab Manuals
- Parents meetings at the time of admission, counseling and in orientation programmes
- Brochure
- Institute Diary

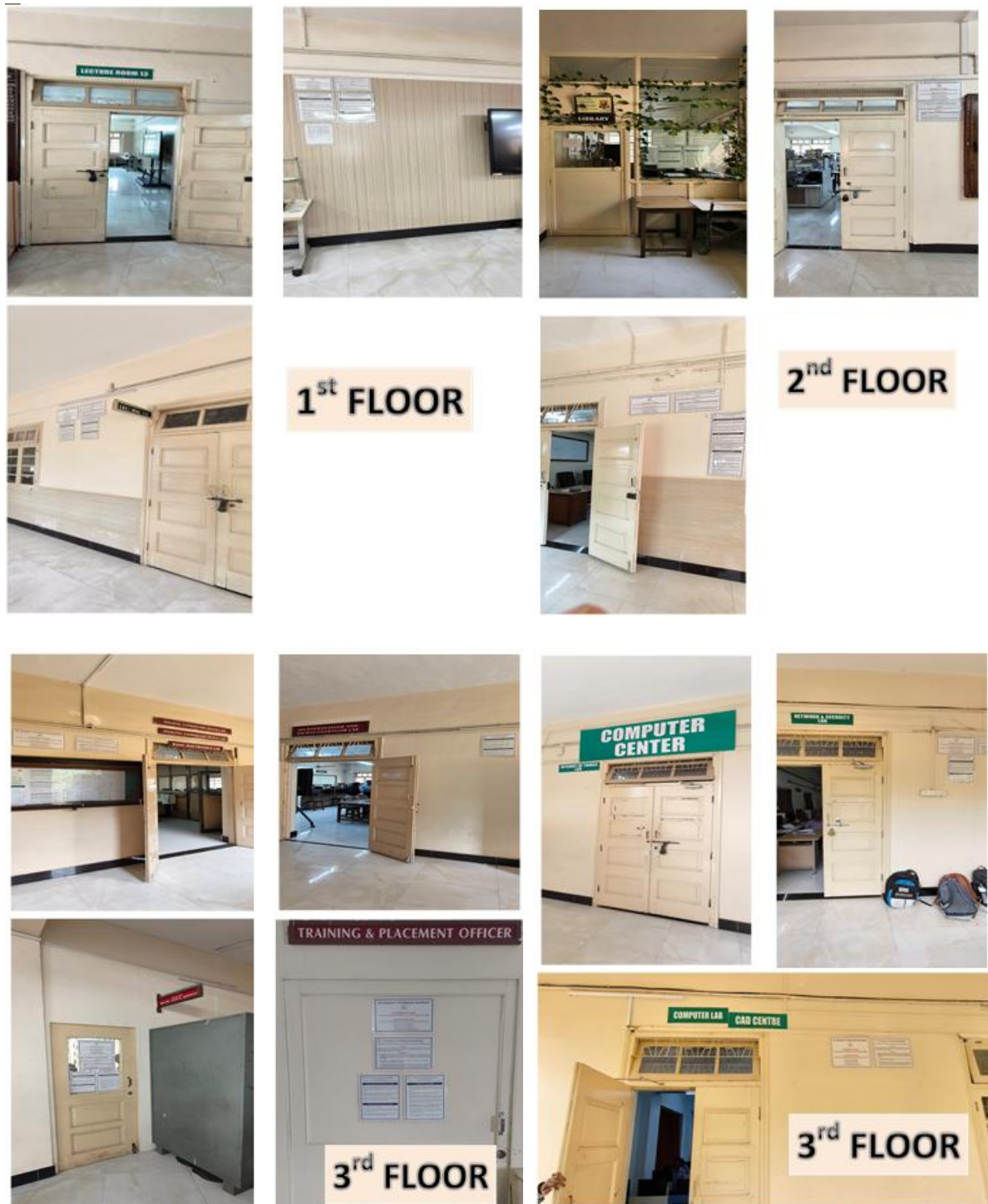


Fig : Dissemination of Vision, Mission and PEOs

TechFest 2026

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graph TD
    subgraph Institute
        I_Vision[VISION]
        I_Mission[Mission]
    end
    subgraph Department
        D_Vision[VISION]
        D_Mission[Mission]
    end
    subgraph Department_of_Computer_Engineering
        DC_E_Vision[VISION]
        DC_E_Mission[Mission]
    end
    I_Vision --> D_Vision
    I_Mission --> D_Mission
    D_Vision --> DC_E_Vision
    D_Mission --> DC_E_Mission
  
```

INSTITUTE

VISION

To nurture the usage of technology in a world of high technology

MISSION

To strive to reach global standards in technical education by

- Interaction with industry
- Continuous Staff Training
- Development of Quality of life of Staff and Students

Department of Electronics and Telecommunication Engineering

VISION

To become a centre of excellence and to produce high quality, self-motivated creative and critical thinking engineers and technologists, contributing effectively to universal engineering and contemporary education.

MISSION

- To ensure student of the Department of Electronics and Telecommunication Engineering for a brilliant career/professionals along with the development of knowledge, skills, attitude and teamwork about for a professional through the designed programme.
- The faculty of the Department continually seeks to enhance their knowledge in contemporary developments/students.
- To impart high-quality engineering education and skills to the students & to provide the best facilities, infrastructure, and environment to the students and faculty members, creating an ambience conducive for excellent educational education and research.

Department of Computer Engineering

VISION

To educate and equip computer engineering student with technical expertise, soft skills and social responsibility, enabling them to excel in their professional and contribute to the growth of society.

The image shows two pages from a 1984 yearbook. The left page is blue with white text and a graphic of a person running. The right page is white with black text and a graphic of a person running.

St. Xavier's Technical Institute
 100, St. Xavier's Road, Palayamkottai - 605 006
 Phone: 0462-2551101, 2551102, 2551103, 2551104

VISION

To become a centre of excellence in providing high quality, high confidence training and skills to students in the field of Electronics and Telecommunication Engineering and to be a leader in the field.

MISSION

- To provide the students of this Institute and St. Xavier's College, Palayamkottai, the necessary exposure to the field of Electronics and Telecommunication Engineering, thereby enabling them to be a professional through the designed curriculum.
- To ensure that the students of this Institute develop their knowledge in Electronics and Telecommunication Engineering.
- To impart high quality training to students in the field of Electronics and Telecommunication Engineering, thereby enabling them to be a professional through the designed curriculum.

St. Xavier's Technical Institute

MISSION

To ensure the joy of students in the world of high technology

To ensure the growth of students in the field of high technology

- Interaction with industry
- Continuous self-learning
- Development of quality of life



1.4. STATE THE PROCESS FOR DEFINING THE VISION AND MISSION OF THE DEPARTMENT, AND PEOS OF THE PROGRAM (15)

(Articulate the process for defining the Vision and Mission of the department and PEOs of the program)

Process for defining Vision & Mission of the Department

The Department Advisory Board (DAB) prepares the Vision and Mission of the department in accordance with Institution Vision and Mission through the following steps:

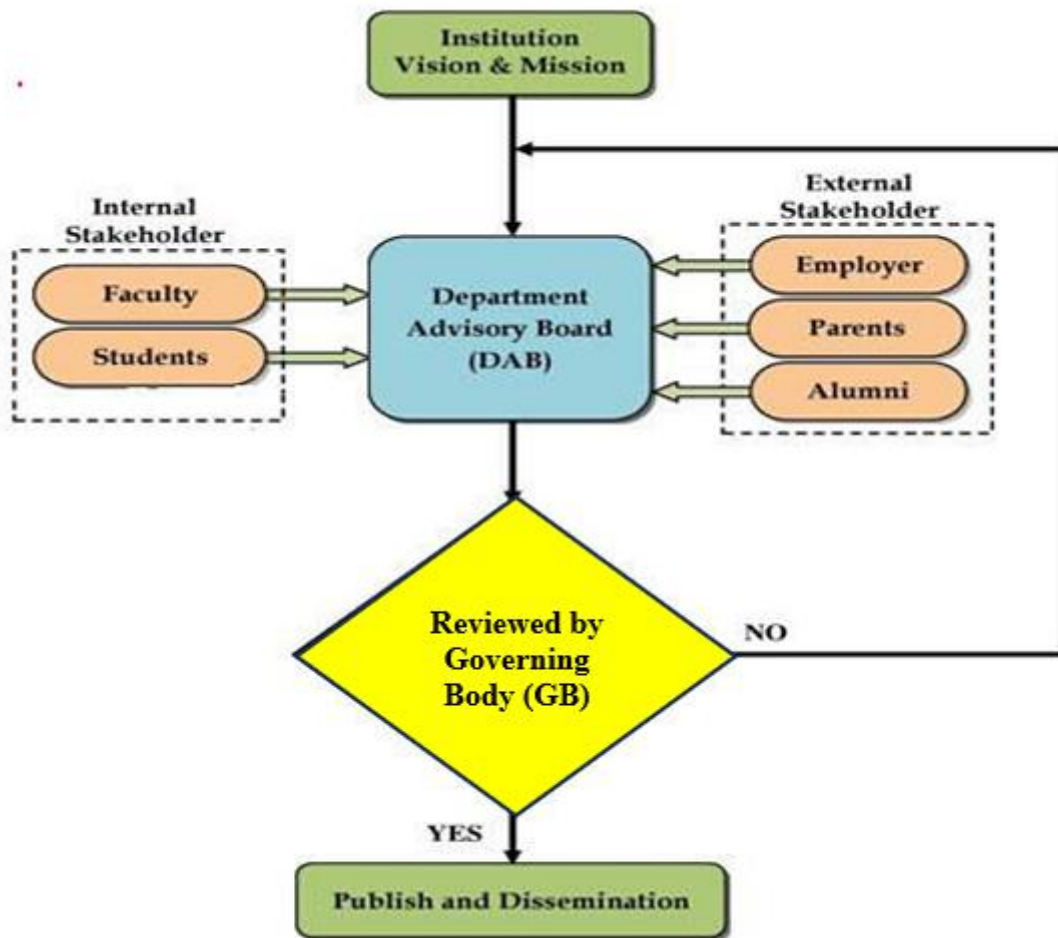


Fig: Process for defining Vision & Mission of the Department

Step 1: CDC & PBOS operate together as the Department Advisory Board which is composed with few of internal stakeholders and external stakeholders as members.

Step 2: The Member secretary of CDC collects the feedbacks/inputs from stakeholders and discuss with the board members to define the department Vision and Mission.

Step 3: After defining Vision and Mission of the department, the same is sent to Governing Body (GB) for review and approval.

Step 4: In case of any modifications required, the GB will suggest the Department Advisory Board to improve and modify the department Vision and Mission or approve the same.

Process for defining the PEO of the Department

After getting suggestions from the stakeholders, the Department Advisory Board (DAB) develops the PEOs by considering the vision and mission of the department as reference.

Step 1: The PBOS evaluates the feedback collected from all stake holders and develops or improves PEOs.

Step 2: The designed PEOs will be sent to CDC for validation and ratification.

Step 3: Finally the ratified PEOs are published and disseminated. The composition of CDC, PBOS and Pro-Forma of Stakeholder feedback are attached in Annexure.

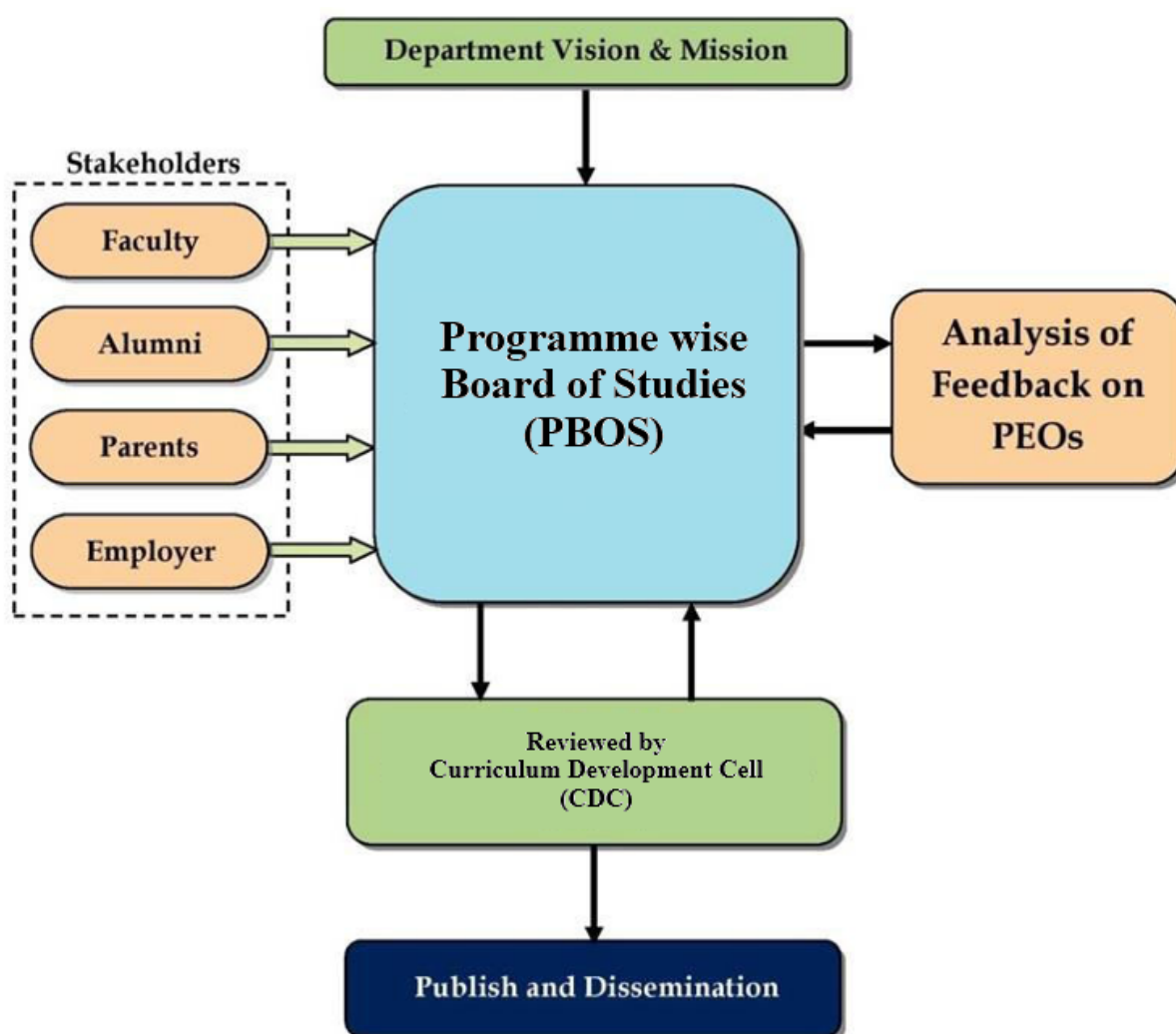


Fig: Process for defining the PEO of the Department

1.5. ESTABLISH CONSISTENCY OF PEOS WITH MISSION OF THE DEPARTMENT (10)

PEO Statements	Levels of Correlation		
	M1	M2	M3
1. PEO1: To produce diploma holders who have the ability to demonstrate technical competence in the fields of Electronics and Tele communication engineering and develop solutions to the problems (technical competence) .	3	3	2
2. PEO2: To produce diploma holders who would be able to take individual responsibility and to work as a part of a team towards the fulfilment of both individual and organizational goals (team work) .	3	1	2
3. PEO3: To prepare the students to engage in professional development through self-study, graduate and professional studies in engineering, management and research (continuing education) .	2	3	3

Note: 3 - Substantial Correlation, 2 - Moderate Correlation, 1 - Slight Correlation

PEOs Mapping with Mission Statements	JUSTIFICATION
PEO1: Technical Competence and Problem Solving.	
M1: Development of knowledge, skills, attitude, and teamwork. Correlation level : HIGH	M1 emphasizes the development of knowledge and skills through a well-designed curriculum, which directly supports the attainment of technical competence and the ability to solve engineering problems in Electronics and Telecommunication Engineering.
M2: Department faculty continually enhance their knowledge to competently lead and empower students. Correlation level : HIGH	M2 Continuous enhancement of faculty knowledge ensures the delivery of updated and relevant technical content, thereby enabling students to acquire strong technical and analytical skills.
M3: To provide the best facilities, infrastructure, and environment to the students. Correlation level : MODERATE	M3 focuses on imparting high-quality engineering education and providing excellent facilities and infrastructure, which are essential for developing technically competent diploma engineers capable of addressing real-world challenges.
PEO2: Individual Responsibility and Teamwork.	
M1: Development of knowledge, skills, attitude, and teamwork. Correlation level : HIGH	M1 explicitly mentions the development of attitude and teamwork, which aligns directly with producing graduates who can take responsibility and effectively contribute to individual and organizational goals.

M2: Department faculty continually enhance their knowledge to competently lead and empower students. Correlation level : LOW	M2 Faculty members act as mentors and role models, fostering leadership qualities, ethical conduct, and interpersonal skills among students, thereby promoting responsible and collaborative behavior.
M3: To provide the best facilities, infrastructure, and environment to the students. Correlation level : MODERATE	M3 A quality educational environment emphasizing ethics and professionalism nurtures responsible individuals who can work effectively in multidisciplinary teams.
PEO3: Professional Development and Lifelong Learning	
M1: Development of knowledge, skills, attitude, and teamwork. Correlation level : MODERATE	By preparing students for successful careers and entrepreneurship, M1 encourages graduates to pursue higher education, self-learning, and continuous professional development throughout their careers.
M2: Department faculty continually enhance their knowledge to competently lead and empower students. Correlation level : HIGH	M2 establishes a culture of continuous learning among faculty, which inspires students to adopt lifelong learning practices, engage in research, and pursue advanced studies in engineering and management.
M3: To provide the best facilities, infrastructure, and environment to the students. Correlation level : HIGH	M3 provides an environment conducive to excellence in technical education and research, thereby motivating students to pursue graduate studies, professional certifications, and research activities.

CRITERION 2	PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES	200
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2.1 PROGRAM CURRICULUM (40)

2.1.1. STATE THE PROCESS USED TO IDENTIFY EXTENT OF COMPLIANCE OF THE BOARD CURRICULUM FOR ATTAINING THE PROGRAM OUTCOMES (POS) AND PROGRAM SPECIFIC OUTCOMES (PSOS) AS MENTIONED IN ANNEXTURE 1. ALSO MENTION THE IDENTIFIED CURRICULAR GAPS, IF ANY(40).

A. PROCESS USED TO IDENTIFY EXTENT OF COMPLIANCE OF CURRICULUM FOR ATTAINING POS AND PSOS (40)

Curriculum Design Framework: Below Flow chart indicates SOP (Standard Operating Procedure) for the design and development of curriculum.

Curriculum Architecture: The curriculum is structured into three progressive layers:

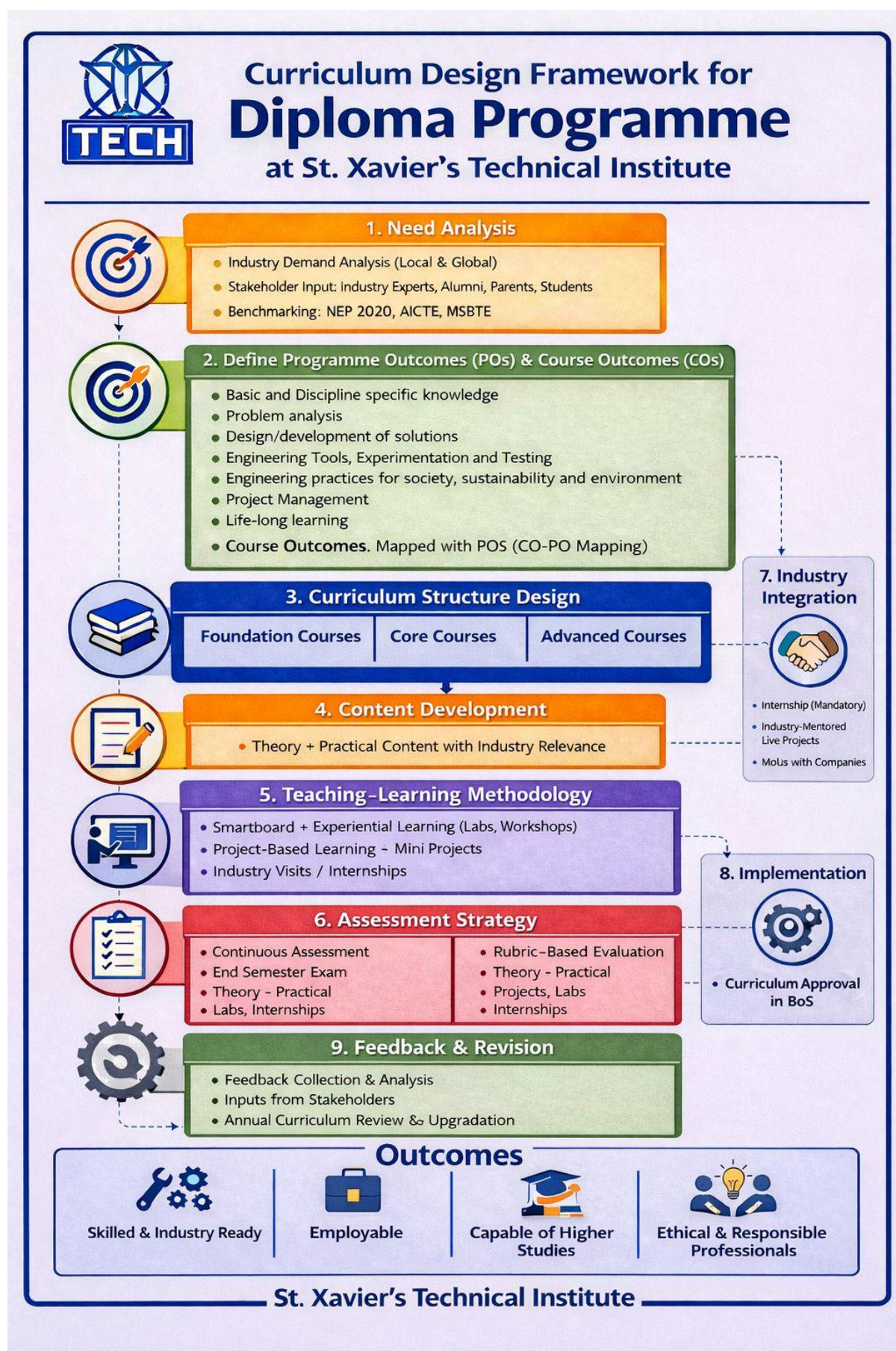
A. Foundation Courses

B. Core Courses

C. Advanced Courses

Methodology:

- **Define Clear Learning Outcomes:** To establish well-defined, measurable learning outcomes aligned with frameworks like Outcome-Based Education.
- **Ensure Alignment:** To align learning outcomes, teaching–learning activities, and assessment methods for coherence and effectiveness.
- **Organize Content Systematically:** To structure subject content in a logical sequence from basic to advanced, ensuring continuity and progression.
- **Promote Effective Teaching–Learning Strategies:** To guide the use of appropriate pedagogies such as lectures, labs, project-based learning, and experiential learning.
- **Incorporate Skill Development:** To integrate technical, cognitive, and soft skills required for employability and lifelong learning.
- **Facilitate Valid Assessment and Evaluation:** To design reliable and transparent assessment tools that accurately measure student performance and achievement.
- **Ensure Industry Relevance:** To align curriculum with current industry standards, technologies, and professional practices.
- **Support Flexibility and Adaptability:** To allow curriculum updates in response to emerging trends, technologies, and stakeholder feedback.
- **Promote Holistic Development and Enable Continuous Improvement:** To foster ethical values, teamwork, communication skills, and problem-solving abilities. To establish mechanisms for regular review, feedback, and refinement using systematic approaches.



Framework Analogy Comparison with Electronic System:

- Input: Industry requirements, policies (NEP, AICTE, MSBTE)
- Processing Unit: Curriculum design & academic planning
- Components: Courses (Foundation, Core, Advanced)
- Circuit Connections: Teaching-learning methods
- Feedback Loop: Assessment and evaluation
- Output: Skilled diploma holders ready for industry

Key Features:

- Outcome-based and student-centric
- Industry-aligned curriculum
- Practical and skill-oriented approach
- Flexible and adaptive structure
- Continuous improvement mechanism

Deliverables

- Structured curriculum document
- Course-wise syllabus
- CO-PO mapping matrices
- Examination scheme
- Implementation roadmap

2.2 TEACHING LEARNING PROCESS (160)**2.2.1 DESCRIBE PROCESSES FOLLOWED TO ENSURE / IMPROVE QUALITY OF TEACHING & LEARNING BASED ON FOLLOWING POINTS (25)**

The two important facet of the teaching learning process is the prospective and attentiveness of the students (learners) and the proficiency of the teachers. So it is mandatory for an institute to make sure the excellence of teaching and learning processes.

Academic calendar is prepared before the commencement of the semester and circulated well in advance. In every academic year, the academic calendar is released, at the commencement of every semester, by the academic co-ordinator in discussion with the Principal, exam office and Heads of the various departments. After the consent, the academic calendar is disseminated to all faculty and students. The academic calendar includes the commencement of classes, examination (periodical tests, end semester, practical etc.), number of working days, holidays, and the schedule of various academic, Co-curricular and Extracurricular activities. The academic calendar is strictly followed as per the schedule for the smooth conduction of teaching- learning process. The planning & activities pertaining to the department for the next academic year adheres to the academic calendar and subsequently approved by DAB.

The subject allocation form is circulated among the faculty members. Based on the preference given by the faculty, Head of the department assigns the subject(s) to the individual faculty.

Then the timetable is prepared accordingly. The class timetable are circulated to the students and also displayed on the department notice board. All faculty members should prepare a lesson plan for their concerned allocated subjects. Lesson plan with course objectives, course outcomes, topics to be taught, number of periods allocated to cover each topic, different teaching methods, references are prepared by the subject handling faculty. This process is reviewed and approved by the Head of the department. Every day faculty members have to register all their teaching activities in academic record book (ARB). This will be reviewed by Head of the department and academic co-ordinator at the term end. Syllabus coverage in each semester is monitored by Head of the department. The feedback on teaching is collected from students. HoD discuss the issues on student's feedback with concerned staff.

A. ADHERENCE TO ACADEMIC CALENDER (3)

- **Process:**

Monitoring and Scheduling: Ensure that the academic calendar is created well in advance, with clearly defined timelines for lectures, assessments, exams, holidays, and events.

Compliance Checks: Regularly track the progress of the syllabus to ensure that all topics are covered as per the schedule. Any delays should be addressed through makeup classes or extended sessions.

Coordination: Faculty members and academic coordinators regularly meet to ensure adherence to deadlines and synchronize their efforts to stay on track with the calendar.

- **Improvement Actions:**

- Set reminders for faculty and departments to review progress periodically.
- Adjust the curriculum or teaching methods if certain topics demand more classes than the alllotted / planned number of classes .



ST. XAVIER'S TECHNICAL INSTITUTE, MAHIM
Government Aided Autonomous Minority Institute, Approved by A.I.C.T.E.
Mahim Causeway, Mumbai. Pin – 400 016
Phone: 8591762763
E-mail: office@xaviertech.ac.in

Academic Calendar 2026 - 2027(ODD TERM)
TERM DURATION: 29-06-2026 to 23-10-2026

Sr.No	Academic Activity	Schedule
1.	Start of Academic Term (Commencement of Classes)	II and III Year 29-06-2026 I Year 17/07/2026
2.	Parent meeting -I	Third week of August 2026
3.	Mid Semester Student's feedback	21-08-2026
4.	Provisional Defaulter's list	End of every month
5.	Ganapati Vacation	14-09-2026 to 18-09-2026
6.	Parent's meeting-II	Last week of September 2026
7.	Periodical Test-I for 2nd and 3rd year	19 th , 20 th and 21 st August 2026
	Periodical Test-I for 1st and Direct 2nd year	In the September 2026
8.	Examination form filling (* normal fees only for backlog students) without late fees	01-09-2026 to 11-09-2026
9.	Examination form filling (* normal fees only for backlog students) + Rs. 200/- late fees per semester	24-09-2026 to 25-09-2026
10.	Examination form filling (* normal fees only for backlog students) + Rs. 1500/- late fees per semester	29-09-2026 to 30-09-2026
11.	Periodical Test-II for 2nd and 3rd year	14 th , 15 th and 16 th October 2026
	Periodical Test-II for 1st and Direct 2nd year	26 th , 27 th and 28 th October 2026
12.	End Semester Student's feedback	13-10-2026
13.	IMC Meeting	15-10-2026
14.	Final Defaulter's list – Second and Third year	22-10-2026
	Final Defaulter's list – First and Direct Second year	29-10-2026
15.	End of Academic Term – Second and Third year	23-10-2026
	End of Academic Term – First and Direct Second year	30-10-2026
16.	Diwali Vacation	05-11-2026 to 14-11-2026
17.	Practical Examination - 3rd year	26-10-2026 to 30-10-2026
18.	Practical Examination - 1st and 2nd Year	07-12-2026 to 11-12-2026
19.	Theory Examination	17-11-2026 to 04-12-2026
20.	Commencement of Industrial Training (SEM VI)	03-12-2026
21.	Commencement of Even Semester	14-12-2026

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ST. XAVIER'S TECHNICAL INSTITUTE, MAHIM
Government Aided Autonomous Minority Institute, Approved by A.I.C.T.E.
Mahim Causeway, Mumbai. Pin – 400 016
Phone: 8591762763
E-mail: office@xaviertech.ac.in

1. Examination fees of *Rs. 700/- to be paid by Backlog students only. Late fees if any imposed are to be paid by both Backlog and Regular students.
2. Refer to the Term End Examination Time Table for details when declared / displayed.
3. The academic schedule displayed is tentative and not final. The First year PT Schedule will be intimated after DTE CAP.
4. In unavoidable circumstances, any necessary amendment in the schedule of any activity will be notified through a separate circular on the institute's website.
5. Every month end the defaulter's list will be displayed.
6. One expert lecture by industry person per month will be arranged by H.O.D of respective department.
7. One technical workshop to be organized by IETE/ISTE student chapter per semester per programme.
8. All the concerned are advised to check the institute's website, respective Whatsapp groups and notice board for the detailed / amended circular / notices from time to time.

As a token of appreciation topper in every course of both periodical tests will be awarded books.

Academic Coordinator
Mr. R. V. Gheware

Principal
Dr. S. B. Ghungrad

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Fig: Academic Calendar

B. USE OF VARIOUS INSTRUCTIONAL PLANNING AND DELIVERY METHODS (3)

• Process:

Instructional Design: Develop detailed course plans that outline learning objectives, instructional strategies, assessments, and required resources. This ensures that each lecture is purposeful and contributes to the course goals.

Active Learning Methods: Use a combination of traditional lectures, project-based learning, flipped classrooms, and interactive sessions to cater to diverse learning styles.

Technology Integration: Leverage technology such as online resources, multimedia presentations using smart boards and digital tools to enhance the delivery of content.

• Improvement Actions:

Regularly update the instructional methods based on student feedback, emerging technologies, and best practices.

Conduct workshops and training sessions for teachers to refine their teaching methods.

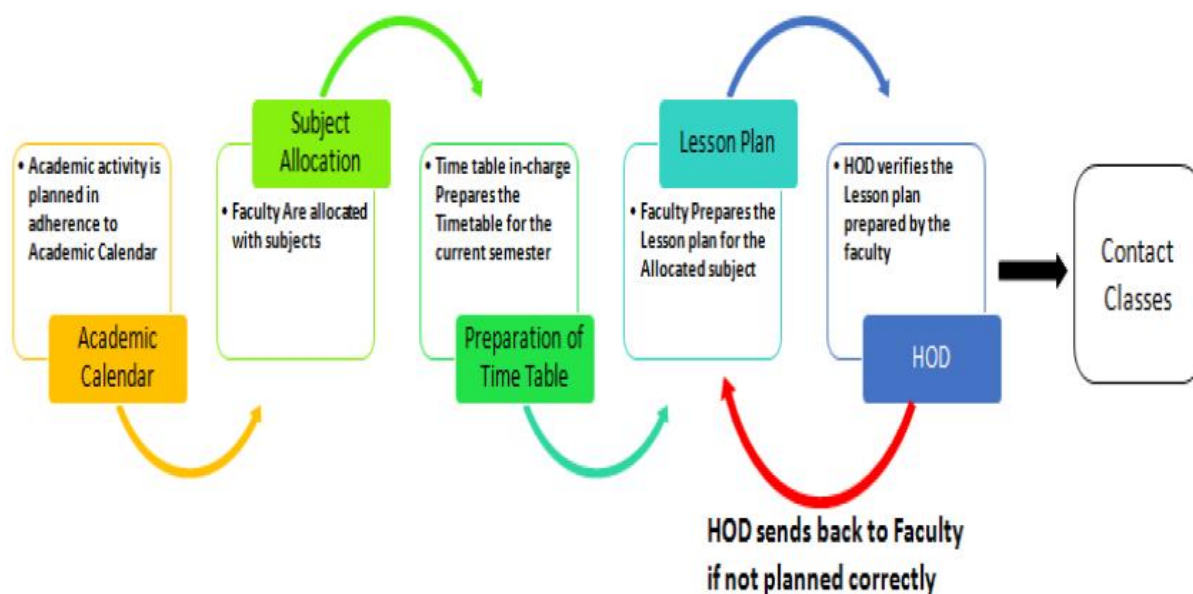


Fig: Teaching Process

C. METHODOLOGIES TO SUPPORT WEAK STUDENTS AND ENCOURAGE BRIGHT STUDENTS (4)

- **Process:**

Identification of Weak Students: Use continuous assessments, oral questions and regular interactions to identify students who may be struggling.

Targeted Support: Provide additional help through remedial classes, one-on-one mentoring, peer tutoring, and extra resources.

Encouraging Bright Students: Offer challenging assignments, opportunities for research projects, and enrichment programs to push top students further and encourage their academic growth.

Differentiated Instruction: Customize teaching approaches and materials based on the varying needs of students.

- **Improvement Actions:**

Create tailored learning plans for weak students.

Recognize and reward bright students through certificates, accolades, or opportunities for leadership roles in academic and extracurricular activities.

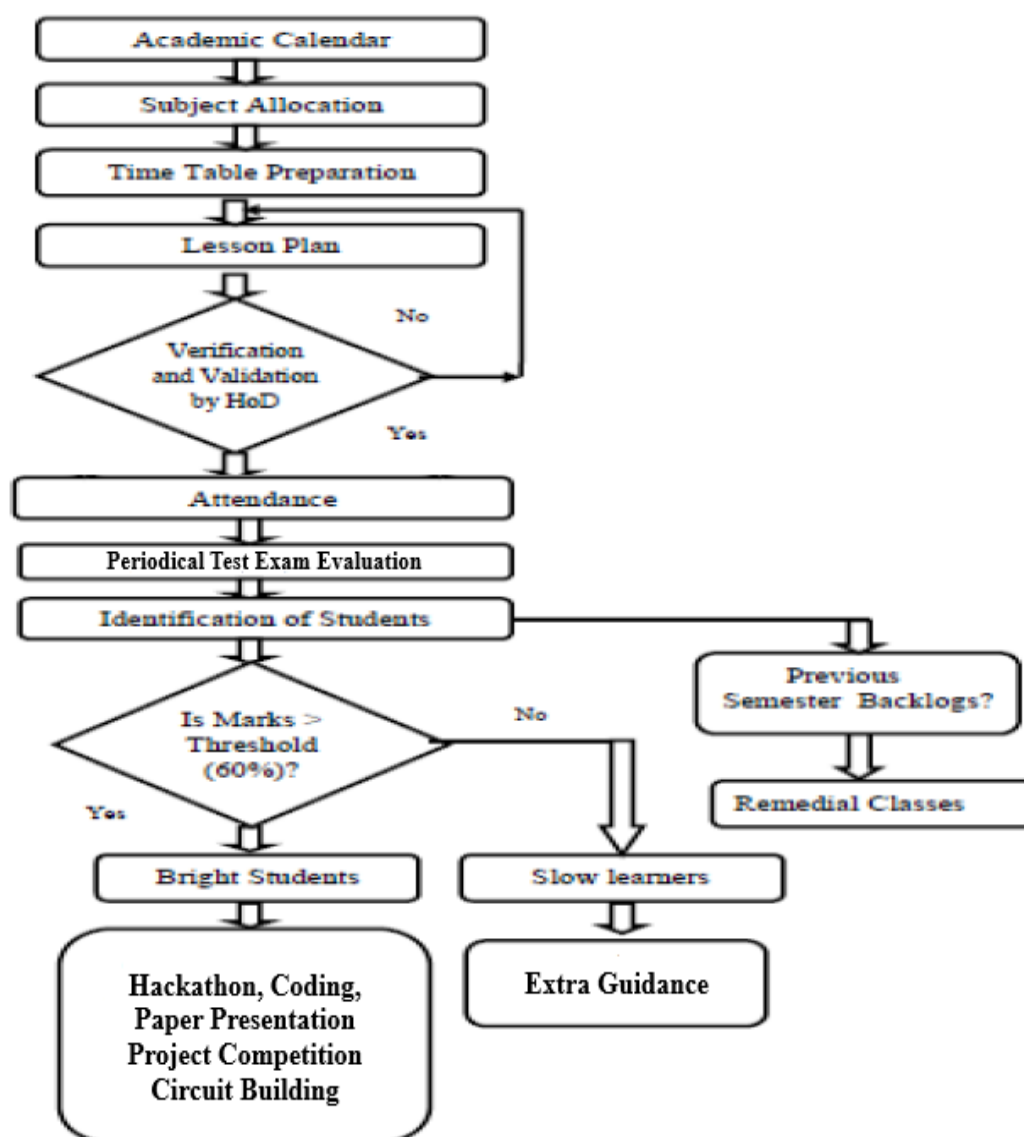


Fig: Teaching Learning Process for Theory Classes

D. QUALITY OF CLASSROOM TEACHING (3)

- **Process:**

Pre-Class Preparation: Ensure that teachers prepare well in advance with comprehensive lesson plans, materials, and examples.

Engagement: Foster student engagement through active discussions, problem-solving sessions, and interactive multimedia tools.

Student-Centric Approach: Focus on teaching methods that promote participation and deep understanding rather than rote memorization.

Classroom Management: Maintain discipline and an environment conducive to learning by encouraging active participation and managing time effectively.

- **Improvement Actions:**

Regular professional development for faculty members to enhance their teaching skills and techniques.

Feedback systems to provide constructive suggestions for improving teaching quality.

E. CONDUCT OF EXPERIMENT (3)

- **Process:**

Curriculum Design: Include practical and hands-on experiments in the curriculum that allow students to apply theoretical knowledge in real-world scenarios.

Proper Equipment: Ensure that all necessary lab equipment, safety measures, and instructions are available for students to conduct experiments effectively.

Supervision and Guidance: Teachers should actively supervise experiments, provide guidance, and ensure that students are following proper procedures and safety protocols.

- **Improvement Actions:**

Regularly update laboratory equipment and materials.

Organize additional sessions or workshops for students to improve their skills.

F. CONTINUOUS ASSESSMENT IN THE LABORATORY (3)

- **Process:**

Ongoing Evaluation: Assess students performance during practical's continuously through quizzes, problem-solving tasks, and live evaluations rather than relying solely on final exams.

Real-Time Feedback: Provide immediate feedback to students during lab sessions to guide their progress and help them improve.

Peer Evaluation: Encourage students to participate in peer assessments to help them reflect on their own work and others contributions.

- **Improvement Actions:**

Use rubrics and grading scales for clear and consistent assessment.

Analyse the assessment data to identify areas where students face common challenges and focus on those areas.

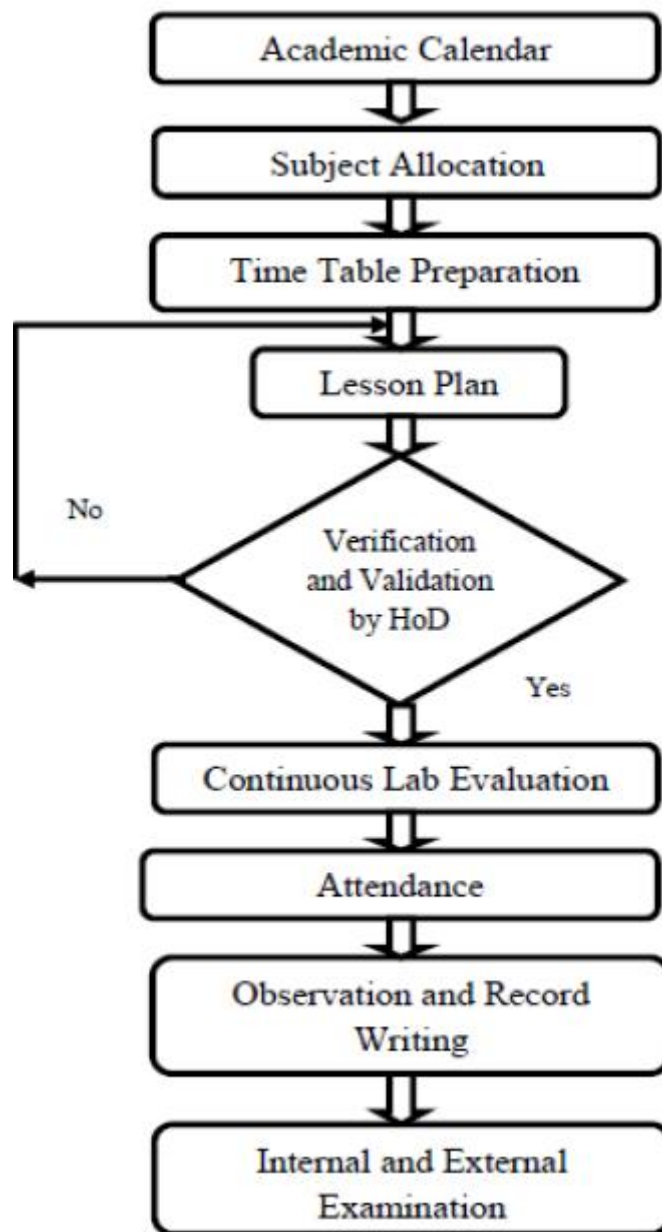


Fig: Teaching Learning Process for Practical Classes

Laboratory Assessment

COURSE CODE		ET-18614		ACADEMIC YEAR		2023-24																						
SUBJECT		Dcomm		BATCH		11 th A3																						
SPN NO	EXPT 1				EXPT 2				EXPT 3				EXPT 4				EXPT 5				EXPT 6				EXPT 7			
	C	P	R	T	C	P	R	T	C	P	R	T	C	P	R	T	C	P	R	T	C	P	R	T	C	P	R	T
2103173	9	9	5	23	9	9	5	23	9	9	5	22	8	9	5	22	8	8	4	20	8	9	5	22	8	9	5	22
174	8	8	5	21	8	8	5	21	8	9	5	22	9	9	5	22	8	9	5	22	8	9	5	22	8	8	5	21
175	9	9	5	23	9	9	5	23	9	9	5	23	9	9	5	23	9	9	5	23	9	9	5	23	9	9	5	23
179	7	7	4	18	7	7	4	18	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20
181	8	8	5	22	8	8	5	22				10				10				10				10				10
183	8	9	5	22	8	9	5	22	8	8	5	21	8	8	5	21	8	8	5	21	8	8	5	21	8	8	4	20
186	8	9	5	22	8	9	5	22	8	9	5	22	8	9	5	22	8	9	5	22	8	9	5	22	8	8	4	20
189	8	9	5	22	8	9	5	22	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20
191	8	8	5	21	8	8	5	21	8	8	5	21	8	8	5	21	8	8	5	21	8	8	4	20	8	8	5	21
196	8	9	5	22	8	9	5	22	9	9	5	23	9	9	5	23	9	9	5	23	9	9	5	23	9	9	5	23
197	8	8	5	21	8	8	5	21	9	9	4	22	9	9	4	22	9	9	4	22	9	9	5	23	9	9	4	22
198	8	8	5	21	8	8	5	21	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20
204	9	9	5	23	9	9	5	23	9	9	5	23	9	9	5	23	9	9	4	22	9	9	5	23	9	9	5	23
206	8	8	4	20	8	8	4	20	8	9	5	22	8	9	5	22	9	9	5	23	8	9	5	22	8	9	5	22
208	9	9	4	22	8	8	4	20	9	9	5	23	9	9	5	23	9	10	5	24	9	9	5	23				17
209	9	9	5	23	9	9	5	23	9	9	5	23	9	9	5	23	9	10	5	24	9	9	5	23	9	9	4	22
2003058	8	8	4	20	9	8	5	22	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20
172																												
194				10				10				10				10				10				10				10
2103172				10				10				10				10				10				10				10
178				10				10				10				10				10				10				10
182	8	8	4	20	8	8	4	20				15				15				15				15				15
199	7	7	3	17	7	7	3	17	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20
2103060	7	7	3	17	8	8	4	20	8	9	5	22	9	9	4	22	9	9	4	22	9	9	4	22	8	8	4	20

C=Circuit Connections/Interaction/Activity(Max 10)

P= Performance (Max 10)

R= Result (Max 5)

T= Total (Max 25)

Laboratory Assessment

COURSE CODE		ET-18614												ACADEMIC YEAR		2023-24											
SUBJECT		Dcomm												BATCH		11th A3											
SPN NO	EXPT 8				EXPT 9				EXPT 10				EXPT 11				EXPT 12				EXPT 13				Term Work (average of all Total)		
	C	P	R	T	C	P	R	T	C	P	R	T	C	P	R	T	C	P	R	T	C	P	R	T			
2103173	8	8	5	22	8	8	5	22	8	8	5	22	8	8	5	22									22		
(21) 174	8	8	5	21	8	8	5	21	8	8	5	21	8	8	5	21									21		
(23) 175	9	9	5	23	9	9	5	23	9	9	5	23	9	9	5	23									23		
(20) 179	8	8	4	20	8	8	4	20	8	8	4	20	8	8	4	20									20		
(22) 181	8	8	5	21	8	8	5	21	8	8	4	20													21		
(22) 183	8	8	4	20	8	8	4	20	8	8	4	20													21		
(21) 186	8	8	4	20	8	8	4	20	8	8	4	20													21		
(21) 189	8	8	4	20	8	8	5	21	8	8	5	21													21		
(21) 191	8	8	5	21	8	8	5	21	8	8	5	21													21		
(23) 196	9	9	5	23	9	9	5	23	9	9	5	23													23		
(23) 197	9	9	4	22	9	9	4	22	9	9	4	22													22		
(20) 198	8	8	4	20	8	8	4	20	8	8	4	20													20		
(23) 204	9	9	5	23	9	9	5	23	9	9	5	23													23		
(23) 206	8	8	5	22	8	8	5	22	8	8	5	22													22		
(22) 208				17				17				17														21	
(23) 209	9	9	4	22	9	9	5	23	9	9	5	23													23		
2003058	8	8	4	20	8	8	4	20	8	8	4	20													20		
(10) 172				10				10				10														10	
(10) 194				10				10				10														10	
2103172																											
(10) 178				10				10				10														10	
(16) 182				16				16				16														16	
(10) 199	8	8	4	20	8	8	4	20	8	8	4	20													19		
2103060	8	8	5	21	8	8	5	21	8	8	5	21													21		

C=Circuit Connections/Interaction/Activity(Max 10)

P= Performance (Max 10)

R= Result (Max 5)

T= Total (Max 25)

Fig: Sample Practical Continuous Assessment Sheet

G. STUDENT FEEDBACK OF TEACHING LEARNING PROCESS AND ACTION TAKEN (6)

Student Feedback on the Teaching-Learning Process

- **Process:**

Regular Feedback: Conduct feedback at regular intervals, such as mid-semester or end-of-semester, to gather students opinions about the effectiveness of teaching methods, materials, and course content.

Focus Groups: Organize focus group discussions with a selected group of students to gain deeper insights into specific concerns or suggestions.

Anonymous Feedback: Ensure that feedback is anonymous to encourage honest and constructive criticism.

- **Improvement Actions:**

Review feedback thoroughly and identify areas for improvement, such as teaching pace, clarity of content, or engagement.

Implement changes where necessary and communicate those changes back to students to show that their feedback is taken seriously.

Action Taken Based on Feedback

- **Process:**

Analysis of Feedback: Analyze student feedback to identify recurring patterns or concerns related to teaching quality, course content, or learning resources.

Faculty Improvement: Provide constructive feedback to faculty members based on the feedback and work with them to implement changes or improvements.

Course Revision: Modify course content, teaching methods, or assessment strategies to better align with students needs and improve learning outcomes.

- **Improvement Actions:**

Incorporate changes based on feedback, such as increasing interaction time, simplifying complex concepts, or changing assessment formats.

Monitor the impact of these changes through subsequent feedback to ensure that improvements are being made.

Overall Process to Ensure and Improve Quality:

- **Set Clear Standards:** Establish academic and instructional standards for the institution, faculty, and students.
- **Regular Monitoring:** Continuously monitor the quality of teaching and learning through feedback, assessments, and evaluations.

- **Professional Development:** Provide regular professional development and training to faculty to stay current with pedagogical advances.
- **Student-Centric Focus:** Tailor teaching methods and learning experiences to meet the needs of diverse students, ensuring equity in learning.
- **Continuous Improvement:** Use feedback loops to ensure constant refinement and improvement of both teaching methods and learning outcomes.

By addressing these areas systematically, we can ensure and continually improve the quality of teaching and learning, which ultimately leads to better student outcomes.

Electronics Devices & Circuits 2024-25; Subject Teacher: Mr. Rakeshkumar Saroj

Basic Electronics AY 2025-26

Subject Teacher: Mr. Anil Gurav

* Indicates required question

1. Email *

2. 1) Has the Teacher covered entire Syllabus as prescribed by University/ College/ Board

Mark only one oval.

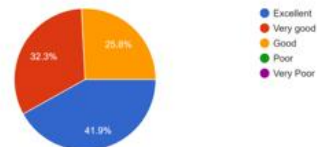
- ☐ Excellent
- ☐ Very good
- ☐ Good
- ☐ Poor
- ☐ Very Poor

3. 2) Has the Teacher covered relevant topics beyond syllabus *

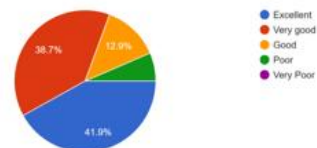
Mark only one oval.

- ☐ Excellent
- ☐ Very good
- ☐ Good
- ☐ Poor
- ☐ Very Poor

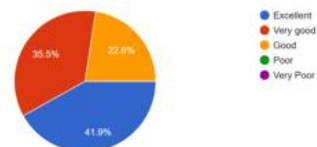
1) Has the Teacher covered entire Syllabus as prescribed by University/ College/ Board
31 responses



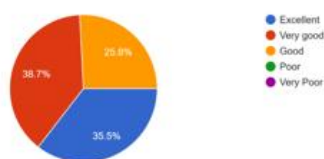
2) Has the Teacher covered relevant topics beyond syllabus
31 responses



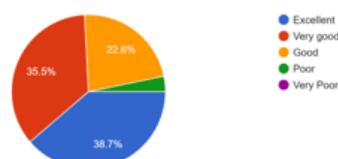
3) Effectiveness of Teacher in terms of: (a) Technical content/ course content (b) Communication skills (c) Use of teaching aids
31 responses



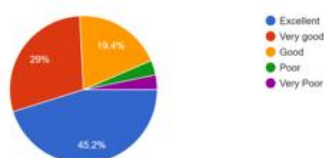
4) Pace on which contents were covered
31 responses



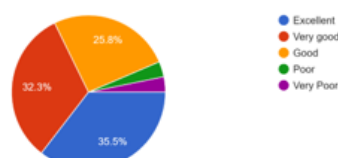
6) Support for the development of student skill (i) Practical demonstration ii) Hands on training
31 responses



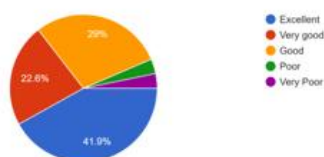
5) Motivation and inspiration for students to learn
31 responses



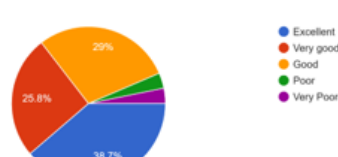
7) Clarity of expectations of students
31 responses



9) Willingness to offer help and advice to students
31 responses



8) Feedback provided on students progress
31 responses



2.2.2 INITIATIVE TO IMPROVE THE QUALITY OF SEMESTER TESTS AND ASSIGNMENTS (15)

A. PROCESS FOR INTERNAL SEMESTER QUESTION PAPER SETTING AND EVALUATION AND EFFECTIVE PROCESS IMPLEMENTATION (5)

5 to 7 full sets (section 1 & 2) of 70 marks each are prepared for each end semester exam.

- Each set consists of any one section by internal examiner and the other by external examiner.
- A copy of syllabus with list of COs, CO-PO map and Question paper specification table are sent along with manuscript.
- Model answers are prepared by the subject teacher for all the courses and uploaded in the website soon after the examination, for students' reference.

Evaluation- St. Xavier's Technical Institute, Mahim, Mumbai All the 3 sets are moderated by the subject expert (internal Staff) Criteria for Moderation

- Complete coverage of syllabus
- Marks distribution proportional to that allotted in the syllabus
- Equal coverage of all COs
- Specification table Weightage: U level – maximum followed by A level and then K level.

Assignments and Periodical Tests:

- The subjects are allocated well in time so that the faculty can prepare the course plan consisting of course delivery methods, assessment plan, assignment frequency and the same is monitored by the HOD before commencement of the class.
- All the COs are covered through careful choice of questions in end semester and PT question papers.
- Periodical tests are planned and announced before the commencement of the semester classes. Evaluated answer scripts are returned within five days and weak students are monitored and mentored. The same is informed to the parents. By this process the course outcome attainment is monitored.
- Assignments are prepared to cover up the COs with poor attainment levels in Periodical test. Assignments are distributed evenly throughout the semester.
- Mapping of PT Questions with COs and Assignment questions with COs are maintained and monitored by the staff.
- Assignments are given in different forms to develop their interpersonal skill, communication skill, lifelong learning, usage of modern tools, group activity and self learning capability are monitored.
- These assessments are carried out periodically and hence allow the faculty members to monitor and provide attention to the students who may not be attaining the PO's to the required level.

B. QUESTION PAPER SETTING TAKING INTO ACCOUNT OUTCOME / LEARNING LEVELS (5)

- The question papers are designed based on the principles of Outcome-Based Education (OBE).
- Each question is mapped to the relevant Course Outcome (CO) and assigned an appropriate cognitive level as per Bloom's Taxonomy (Remember, Understand, Apply, Analyze, etc.).
- A question paper blueprint is prepared to ensure balanced coverage of all COs, learning levels, and marks distribution.
- The question paper undergoes moderation and verification to ensure alignment with the prescribed outcomes, appropriate difficulty levels, and fair assessment of students' attainment of the intended learning outcomes.
- This systematic process facilitates accurate CO attainment analysis and continuous improvement in the teaching-learning process.

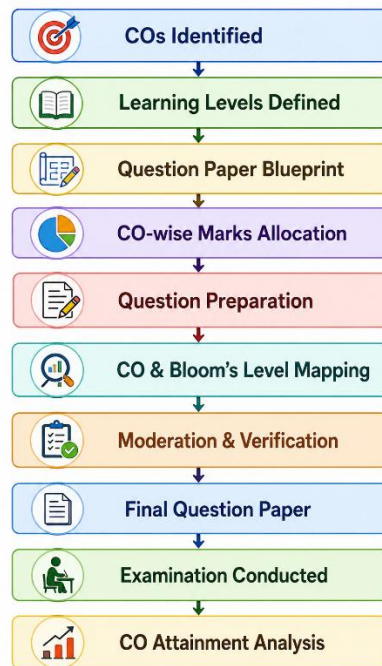


Fig: Internal Examination Procedure

SPN NO.: _____ 23102/ETPC102-25NOV2025

ST. XAVIER'S TECHNICAL INSTITUTE, MAHIM, MUMBAI 400016
DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING
SEMESTER EXAMINATION – WINTER 2025
SEMESTER – I

Time allowed : 3 hours Marks – 70

BASIC ELECTRONICS

Instructions :-

1. Answer to the two sections must be written in separate Answer Book/s.
2. Illustrate your answers with neat sketches wherever necessary.
3. Use of Mathematical tables and Pocket calculators (non-programmable) is permissible.
4. Figures to the right indicate full marks.
5. Assume suitable additional data, if necessary.

SECTION – I

Q. 1. Attempt any FIVE. 15

- a) Define : (i) Atomic number (ii) Atomic mass number (iii) Doping
- b) List any six specifications of Diode.
- c) Draw the symbols of (i) Zener diode (ii) Photodiode (iii) PN Junction diode.
- d) Draw the VI characteristics of zener diode.
- e) Define – Drift current, Diffusion current.
- f) Compare zener diode and PN junction diode (any 3 points).
- g) Enlist any 3 applications of PN junction diode.

Q. 2. Attempt any TWO. 10

- a) Explain the formation of PN Junction diode.
- b) Explain the classification of material on energy band diagram.
- c) Draw AC sine wave and explain the following terms:
(i) Cycle (ii) Frequency (iii) Time period (iv) Amplitude.

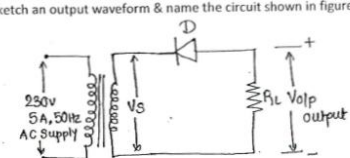
Q. 3. Attempt any TWO. 10

- a) Explain the operation of zener diode as voltage regulator.
- b) Draw the VI characteristics of PN junction diode and explain it.
- c) Explain the formation of N type semiconductor.

SECTION – II

Q. 4. Attempt any FIVE. 15

- a) Define any three terms: (i) Wave shaping circuit (ii) Clipper (iii) Clamper (iv) Bias clipper (v) Series Clipper
- b) State the need of Rectifier in power supply.
- c) A full wave bridge rectifier connected with a transformer of secondary voltage 18V (r.m.s.) find its (i) DC o/p voltage (ii) Sketch a neat circuit diagram
- d) Compare C filter with π filter (any 3 points).
- e) Sketch an output waveform & name the circuit shown in figure



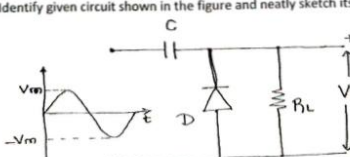
- f) Neatly sketch a circuit diagram of any filter with a half wave rectifier.
- g) Enlist any three terms related to Rectifier circuit.

Q. 5. Attempt any TWO. 10

- a) State the need of filter. Define and list its types.
- b) Discuss the operation of full wave rectifier (any one type) with a neat circuit diagram & waveform.
- c) Draw & explain the operation of series clipper along with its i/p & o/p waveforms.

Q. 6. Attempt any TWO. 10

- a) Illustrate the operation along with the circuit diagram & wave form of Parallel bias clipper.
- b) Define following terms (Any 5) :
(i) Vdc (ii) ripple factor (iii) PIV (iv) Rectification efficiency
(v) Voltage regulation (vi) TUF (vii) Ripple (viii) Half wave rectifier
- c) Identify given circuit shown in the figure and neatly sketch its output waveform .



23102/ETPC102-25NOV2025

Fig: Sample End Semester Examination Question Paper



ST. XAVIER'S TECHNICAL INSTITUTE, MAHIM, MUMBAI - 400 016.

PROFORMA FOR QUESTION PAPER MAPPING - Taxonomy and CO's

Examination: Winter / Summer 2025

PROGRAMME : Diploma in Electronics and Telecommunication Engineering (D.E.T.E.) / Diploma in Computer Engineering (D.C.E.)

SEMESTER : ICOURSE CODE : 23102COURSE NAME : Basic Electronics

Question No.	BIT 1				BIT 2				BIT 3				BIT 4				BIT 5				BIT 6				BIT 7				BIT 8				Remarks
	T	L	M	CO	T	L	M	CO	T	L	M	CO	T	L	M	CO	T	L	M	CO	T	L	M	CO	T	L	M	CO	T	L	M	CO	
1	1	R	3	102-1	2	U	3	102-2	3	R	3	102-2	3	U	3	102-2	1	U	3	102-1	3	U	3	102-1	2	A	3	102-2					
2	2	U	5	102-2	1	U	5	102-1	1	U	5	102-1																					
3	3	A	5	102-2	2	U	5	102-2	1	U	5	102-1																					
4	4	R	3	102-4	5	U	3	102-4	5	A	3	102-4	6	U	3	102-4	5	A	3	102-4	6	U	3	102-4	5	U	3	102-4					
5	6	R	5	102-4	5	U	5	102-5	4	U	5	102-4																					
6	4	U	5	102-4	5	R	5	102-4	4	A	5	102-4																					

Total Marks of	R level questions in full question paper	U level questions in full question paper	A level questions in full question paper
	19	48	19
Total Marks of full question paper	70	70	70
Percentage of R, U, A level of question in full question paper	27%	68%	27%

Name and Signature of the faculty:

Mr. Anil Gusev

T-TOPIC

L-LEVEL

M-MARKS

*REMEMBER

U-UNDERSTANDING

A-APPLICATIONS

Fig: Sample Specification Table

C. COS COVERAGE IN CLASS TESTS / MID-TERM TESTS AND ASSIGNMENTS (5)

- The Continuous Internal Assessment (CIA) process is designed to ensure comprehensive coverage of Course Outcomes (COs) through periodical tests.
- Assessment components are mapped with the relevant COs and cognitive learning levels prescribed by Bloom's Taxonomy to evaluate students' conceptual understanding, analytical abilities, and problem-solving skills.
- The marks distribution is planned to provide balanced coverage of all COs across the semester.
- CO-wise performance analysis is carried out after each assessment to identify attainment levels and implement corrective measures for continuous improvement in the teaching-learning process.

St. Xavier's Technical Institute, Mahim, Mumbai
Diploma In Electronics & Telecommunication Engineering
Academic Year 2025-2026

Year: Second Semester: Four	Periodical Test - I
Time allowed: 90 Minutes (09.00am to 10.30am)	16/02/2026
Course Name & Code : Digital Communication (23402)	Marks - 30

Instructions : ➤ Assume suitable data wherever necessary.

➤ Illustrate your answer with neat sketches where ever necessary.

➤ Use of Mathematical tables and Pocket calculator [non-programmable] is permissible.

SPN :

1. Answer any Three (3 x 4 = 12 Marks) (04 Marks each Question).	Cos
(a) Define and write the expression for Amount of information I. A source emits 4 symbols with probabilities 1/2, 1/4, 1/8 & 1/16. Calculate the information content of each of these messages.	C402.1
(b) State and explain Hartley's laws related to channel capacity.	C402.1
(c) Compare Pulse modulation with CW modulation.	C402.2
(d) List and define the types of PAM. Draw waveforms.	C402.2
(e) Compare PCM and DM techniques.	C402.2
2. Answer any Three (3 x 6 = 18 Marks) (06 Marks each Question).	
(a) State Shannon Hartley Theorem. Calculate the channel capacity of a channel with bandwidth 10KHz and SNR of 20dBs.	C402.1
(b) Explain the block diagram of basic digital communication system.	C402.1
(c) Explain PPM generation with neat sketch of block diagram of PPM transmitter and I/O waveforms.	C402.2
(d) Discuss the steps in PCM generation with relevant diagrams.	C402.3
(e) Explain the basic working principles of Delta Modulation with waveforms.	C402.3

Best of Luck

St. Xavier's Technical Institute, Mahim, Mumbai
Diploma In Electronics & Telecommunication Engineering
Academic Year 2025-2026

Year: Second Semester: Four	Periodical Test - II
Time allowed: 90 Minutes (09.00am to 10.30am)	23/03/2026
Course Name & Code : Digital Communication (23402)	Marks - 30

Instructions : ➤ Assume suitable data wherever necessary.

➤ Illustrate your answer with neat sketches where ever necessary.

➤ Use of Mathematical tables and Pocket calculator [non-programmable] is permissible.

SPN :

1. Answer any Three (3 x 4 = 12 Marks) (04 Marks each Question).	Cos
(a) For the binary data 111001010 draw ASK, FSK, BPSK and QAM waveforms.	C402.5
(b) Explain group formation in Frequency Division Multiplexing.	C402.4
(c) Describe the role of pilot carrier frequencies in FDM systems.	C402.4
(d) Sketch the Block diagram and frequency plan of 12 Channel Basic group.	C402.4
(e) Explain the working of a PLL-based FSK receiver with necessary block diagram and waveforms.	C402.6
2. Answer any Three (3 x 6 = 18 Marks) (06 Marks each Question).	
(a) Compare TDM and FDM.	C402.4
(b) A binary data sequence 1100101 is transmitted using ASK. Draw the I/O waveforms and explain the modulation process.	C402.5
(c) With an example illustrate BPSK demodulation process.	C402.6
(d) Draw and explain the block diagram of a 5-channel PCM-TDM transmitter.	C402.4
(e) Explain the working of an FSK modulator using Timer IC 555	C402.5

Best of Luck

Fig: COs coverage in PT Question Papers

2.2.3 QUALITY OF EXPERIMENTS (15)**A. EXPERIMENTAL METHODOLOGIES (5)**

The Department of Electronics and Telecommunication Engineering adopts innovative, outcome-based, and industry-oriented experimental methodologies to enhance students' practical knowledge, technical competency, and problem-solving skills. The following practices are implemented to continuously improve the quality of laboratory experiments and achieve Course Outcomes (COs) and Program Outcomes (POs).

Methodology	Implementation	Expected Outcome
1. Outcome-Based Laboratory Experiments	Every experiment is mapped with specific Course Outcomes (COs), Theory Learning Outcomes (TLOs) and Laboratory Learning Outcomes (LLOs).	Ensures attainment of COs and measurable learning.
2. Experiment Objectives and Learning Outcomes	Each experiment begins with clearly defined objectives, prerequisites, expected outcomes, and assessment rubrics.	Students understand the purpose and expected competencies before performing the experiment.
3. Simulation Before Hardware Implementation	MATLAB, Multisim, Tinkercad, Arduino IDE, etc., are used to simulate circuits before practical implementation.	Enhances conceptual understanding and reduces hardware errors.
4. Hands-on Practice Experiments	One kit per student setup is provided in the labs. Lab manuals are provided for maximum time utilisation in practical performance.	Develops analytical thinking and engineering design skills.
5. Industry-Oriented Experiments	Experiments incorporate applications from IoT, Wireless Communication, Embedded Systems, Sensor Networks, PLCs, Automation, and Communication Systems.	Improves industry readiness.
6. Virtual Laboratory Support	Virtual labs from MSBTE website and simulation software are referred.	Improves understanding and allows repeated practice.
7. Demonstration-Based Learning	Faculty demonstrate advanced instruments such as CRO, DSO, Spectrum Analyzer, Function Generator, and Communication Trainers before student execution.	Improves confidence and reduces experimental errors.
8. Collaborative Learning	Students perform experiments in small teams with defined roles such as leader, recorder, circuit designer, and presenter.	Enhances teamwork and communication skills.
9. Open-Ended Experiments	Students are encouraged to design alternative circuits or implement multiple solutions for a given problem statement.	Encourages innovation and independent learning.
10. Troubleshooting Exercises	Faulty circuits are intentionally introduced for diagnosis and rectification.	Develops debugging and maintenance skills.

11. Data Analysis and Interpretation	Students analyze observations using graphs, MATLAB plots.	Improves analytical and interpretation abilities.
12. Integration with Mini Projects	Laboratory experiments serve as building blocks for mini projects and capstone projects.	Facilitates experiential learning.
13. ICT-Enabled Learning	Video demonstrations, online manuals, and digital experiment guides are provided.	Supports self-paced and blended learning.
14. Rubric-Based Assessment	Student performance is evaluated using standardized rubrics covering preparation, execution, observations, analysis, viva, and report writing.	Ensures transparent and objective assessment.
15. Continuous Feedback Mechanism	Student feedback, laboratory observations, result analysis, and attainment data are reviewed each semester to improve experiments.	Promotes continuous quality improvement (CQI).
16. Green Laboratory Practices	Reusable components, proper e-waste disposal, power conservation, and paperless record submission are encouraged.	Promotes sustainable engineering practices.

B. INNOVATIVE EXPERIMENTS INCLUDING INDUSTRY ATTACHED PRACTICES, VIRTUAL LABS (5)

Industry-Oriented Practices

- Implementation of IoT-based monitoring systems using Arduino/ESP32.
- PCB design using modern PCB design software – EaglePCB & NI Ultiboard.
- Sensor interfacing with embedded controllers for automation.
- Optical fiber communication experiments using trainer kits.
- Network configuration and communication protocol implementation.
- Embedded system programming using Arduino IDE platform.
- Mobile communication experiments involving signal strength analysis, frequency reuse, and handover concepts.
- Industrial instrumentation using sensors and data acquisition modules.
- Communication system performance analysis using MATLAB.

Industry-Supported Activities

- Industry-sponsored projects.
- Expert lectures and demonstrations by practicing engineers.
- Industrial visits linked with laboratory experiments.
- Internship-based practical assignments.
- Equipment demonstrations by industry professionals.

Virtual Laboratory Practices

The department supplements physical laboratories with virtual laboratories to enable self-learning, remote experimentation, and simulation-based understanding.

Virtual Laboratory Methodology

- Pre-laboratory simulation before hardware implementation.
- Virtual experiments for concepts difficult to realize physically.
- Repeatable experiments without equipment limitations.
- Remote access learning during off-campus hours.
- Interactive visualization of communication systems.
- Self-assessment through virtual quizzes and exercises.

Virtual Laboratory Platforms Used

- MATLAB & Simulink
- Multisim
- Ultiboard
- Eagle PCB
- Arduino IDE Simulator
- Scilab
- Online Communication System Simulators

C. RELEVANCE TO OUTCOMES (5)

The laboratory methodologies contribute to the development of the following graduate attributes:

- Technical competency
- Critical thinking and analytical skills
- Innovation and creativity
- Teamwork and leadership
- Effective communication
- Ethical and professional responsibility
- Digital literacy
- Self-learning and lifelong learning
- Industry readiness and employability

Outcome-Based Impact

The implementation of innovative experiments, industry-attached practices, and virtual laboratories has resulted in:

- Better Program Outcome (PO) and Program Specific Outcome (PSO) achievement.
- Increased student engagement through experiential and project-based learning.
- Enhanced practical competence and confidence in handling modern engineering tools and technologies.

2.2.4 QUALITY OF STUDENTS PROJECTS AND REPORT WRITING (35)

A. IDENTIFICATION OF PROJECTS AND ALLOCATION METHODOLOGY (3)

A group of four students can be formed as batch based on their academic percentages greater than 70%, 60% to 70% and less than 60%. Each batch of student submits their title of proposed topics with objectives and the plan of action to the project coordinator. The projects are selected on variety of problems in multi-disciplinary domains identified based on the student's area of interest. Project coordinator and project review committee (PRC) assess and approves the titles based on recent trends in different domains of electronics and communication engineering. The schedule for the project assessment is planned and intimated to students during the beginning of the semester. After obtaining the approval from the PRC, based on the area of specialization, the project batches are assigned to the faculty members. The continuous monitoring is carried out with two reviews and one project exhibition conducted as per schedule to enhance the relevance of the projects.

- Review-1 covers abstract & block diagram. The student presents the title of the project, an abstract that describes the project idea and literature survey of the project. The project is accepted or rejected based on the presentation in this review.
- Review-2 covers implementation of objectives, code and results.
- Project exhibition covers project demo for the working prototype and the reports. PRC evaluates the projects and selects the best of three among the projects.
- The draft copy of project report is submitted to project guide for evaluation and corrections suggested by the guide have to be imparted to the student to complete the project report.
- The external project viva voce is conducted wherein the students are instructed to submit their project report and a power point presentation.

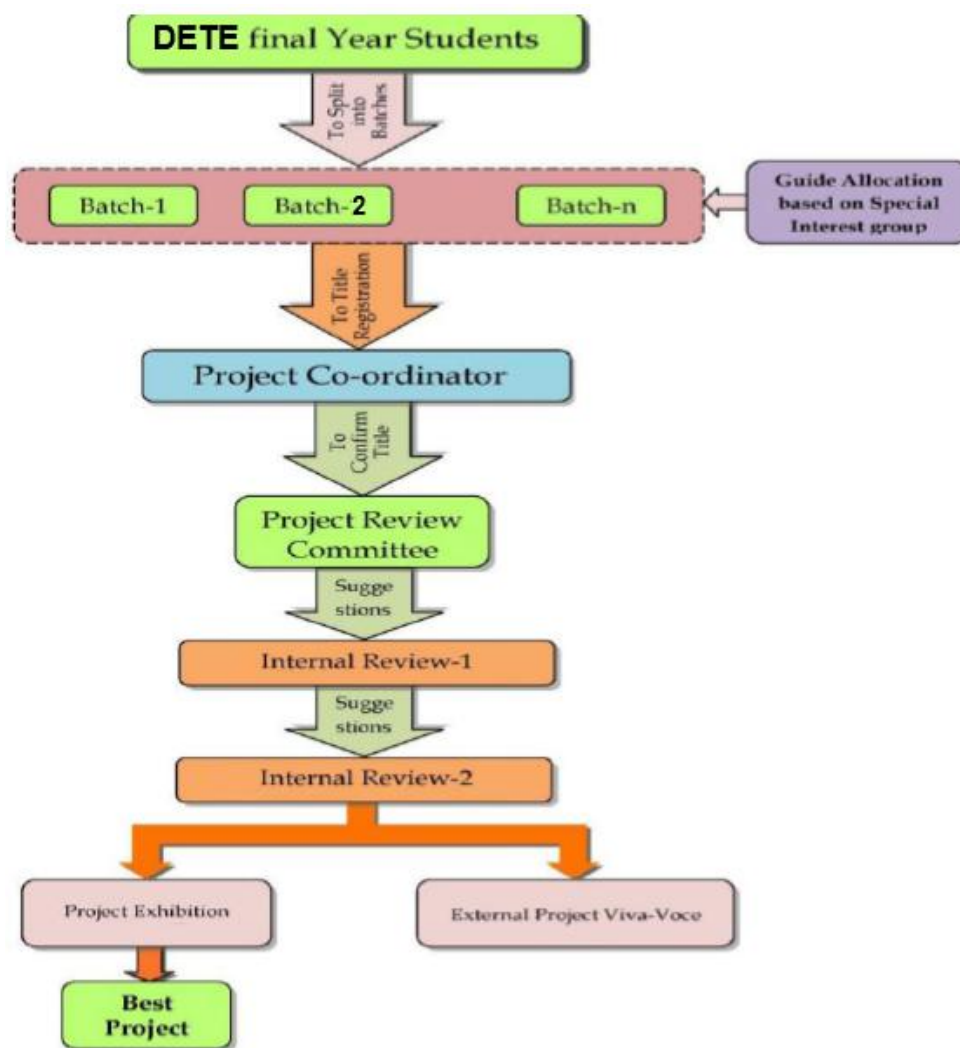


Fig: Process for students projects

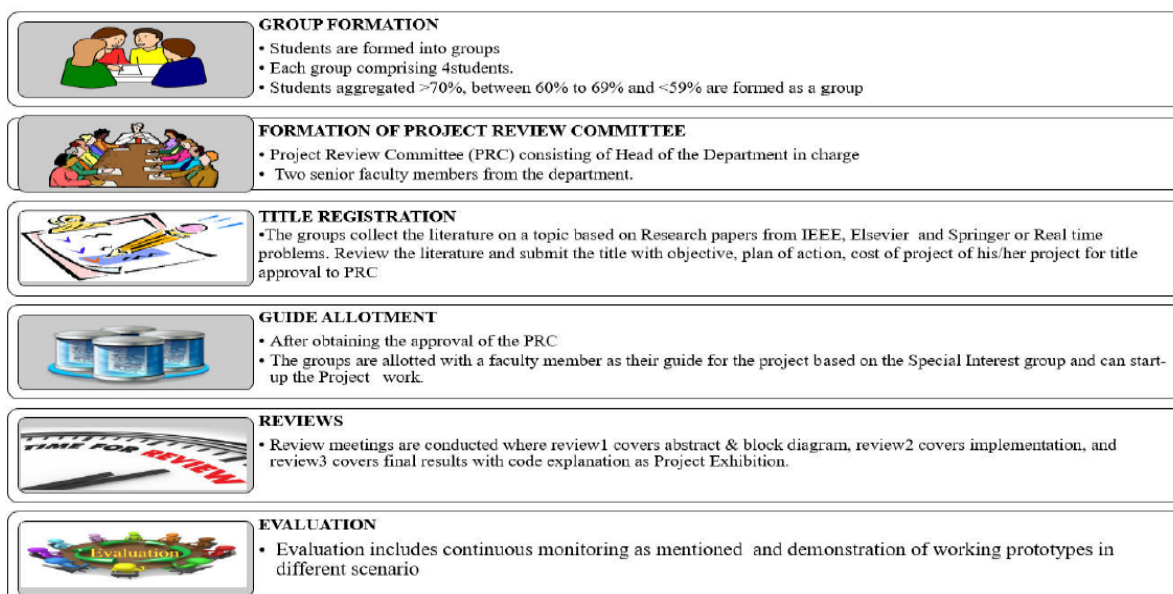


Fig: Identification of Project & its process

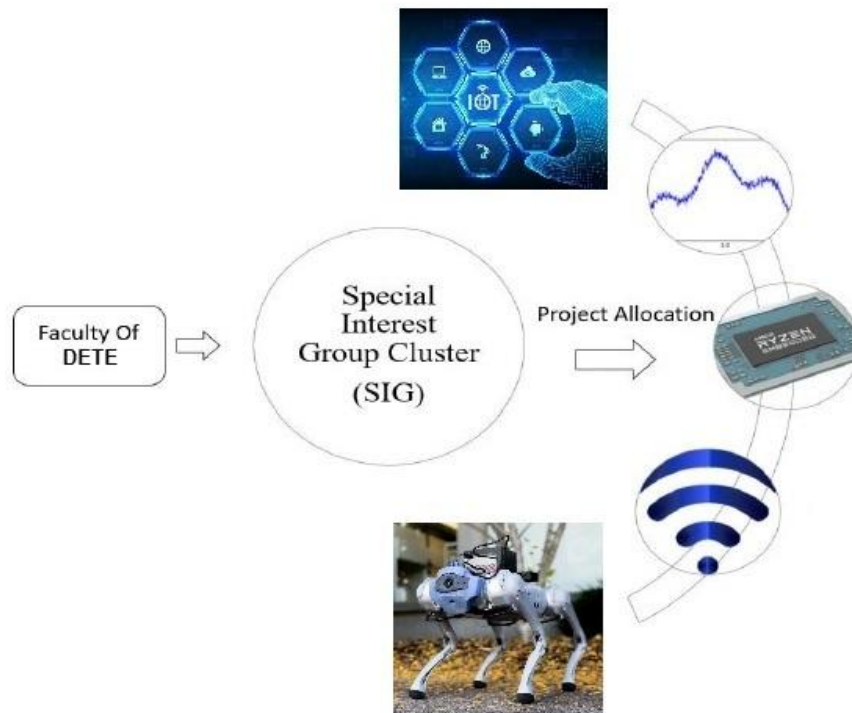


Fig: Guide Allocation

66

Guide Allocation

The department of Electronics and Communication Engineering organizes the project exhibition every year to demonstrate final year student's projects. The students can get exposure to the recent trends in different domains of Electronics and Communication Engineering. A team constituted by the head of the department visits all the demonstrated projects. The team evaluates the projects and selects the best of among them based on the following criteria:

- Final project demo for the working prototype is evaluated by PRC.
- The projects are evaluated in terms of their performance in the review, contribution towards research, road map to product development, contribution to environment and its safety.
- The students are awarded internal assessment marks for maximum of 50 and are graded according to the project contribution towards attainment of POs and PSOs.



Fig: Project Expo

The students are encouraged to transform their project into technical papers to present in conferences and publish in reputed journals.

B. TYPES AND RELEVANCE OF THE PROJECTS AND THEIR CONTRIBUTION TOWARDS ATTAINMENT OF POS AND PSOS (5)**Identification of projects and allocation methodology:****Identification of Projects:****Sources of Project Ideas:**

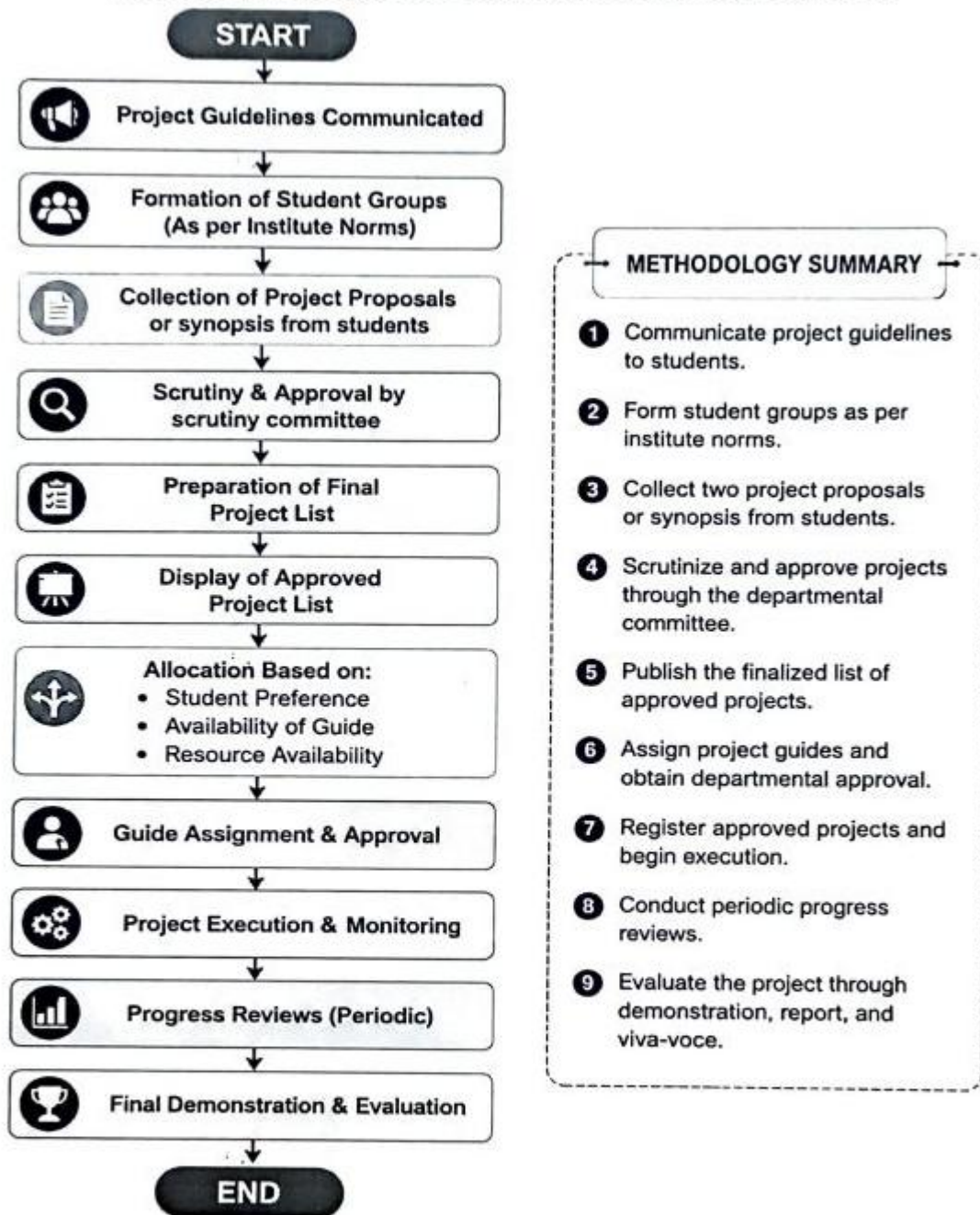
- Industry problems and requirements.
- Local community or social needs.
- Suggestions from faculty members.
- Student-generated innovative ideas.
- Research papers, journals, and technical magazines.
- Government initiatives and emerging technologies.

Criteria for Selecting Projects :

- Relevant to the branch of engineering.
- Technically feasible within the available time and budget.
- Availability of laboratory facilities and equipment.
- Opportunity to apply theoretical knowledge.
- Scope for innovation and problem-solving.
- Safe, environmentally friendly, and socially useful.

PROJECT ALLOCATION METHODOLOGY

Below is a simple and systematic Flow Chart for Project Allocation Methodology for students.



Mr. Sanjiv Borkar

Project coordinator

Dr. Vijay Rathod

HOD (EXTC)

Types of Relevance	Number of Projects related in AY 2025-26	Number of Projects related in AY 2024-25	Number of Projects related in AY 2023-24	PO's & PSO's
Society	4	8	2	All Projects are highly correlated to PO1, PO2, PO3, PO5, PO6 and PSO2.
				All Projects are moderately correlated to PO7 and PSO1.
Environment	1	6	7	All Projects are highly correlated to PO1, PO2, PO3, PO5, PO7 and PSO2.
				All Projects are moderately correlated to PO6 and PSO1.
Health	3	2	1	All Projects are highly correlated to PO1, PO2, PO3, PO5 and PSO2.
				All Projects are moderately correlated to PO6, PO7 and PSO1.
Safety	1	4	1	All Projects are highly correlated to PO1, PO2, PO3, PO5 and PSO2.
				All Projects are moderately correlated to PO6, PO7 and PSO1.
Culture	1	-	-	All Projects are highly correlated to PO1, PO2, PO3, PO5 and PSO2.
				All Projects are moderately correlated to PO6, PO7 and PSO1.
Security	1	2	2	All Projects are highly correlated to PO1, PO2, PO3, PO5 and PSO2.
				All Projects are moderately correlated to PO6, PO7 and PSO1.
Education	4	3	2	All Projects are highly correlated to PO1, PO2, PO3, PO5, PO6 and PSO2.

2024-2025 Project List with Category

Project Group ID	Titles of the Project	Area of the Project
1	1. Multifunctional Tachometer	Electronics and Embedded Systems
2	1. Ventilator with BPM & Oximeter 2. Generate Electricity by Speed Braker 3. Sunlight Tracking System	Healthcare
3	1. Automatic vacuum robot	Robotics
4	1. Website For Students 2. Gas Leak Management 3. Plant Irrigation System	Mixed
5	1. Automatic Scarecrow	Agriculture based
6	1. AI-Powered College Website Automation	Artificial Intelligence
7	1. Portable Medical Diagnostic Device	Healthcare

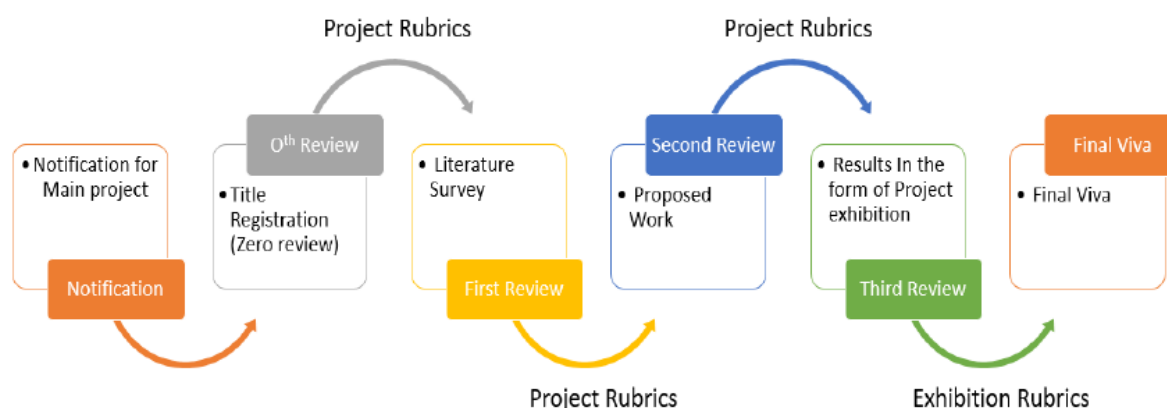
8	1. Vertical Farming Agro IOT 2. peak -Fitness App 3. Soleo-Medicines App	Agriculture Mobile App
9	1. Ac (Air Conditioner) 2. Solar Grass Cutter Robot 3. Cnc Milling printer	Electro-Mechanical Robotics Electro-Mechanical
10	1.Real Time Stock market Prediction 3. Smart Waste Segregating System	Automation
11	1. DIY Reflow soldering station 2. Automatic bell system 3. Diy 3d printer	Electronics Automation Microcontroller based
12	1. Attendance machine (using scanner) 2. Electric tiffin (using Heater) 3. Toddler with advanced systems	Consumer Electronics Microcontroller based
13	1. Line following robot 2. Distance Meter 3. Walkie-Talkie	Robotics Instrumentation/Automation Communication
14	1. Disaster alert alarm. 2. Sunlight Tracking System. 3. Home automation System	Automation
15	1. Smart attendance device (Prototype). 2. IOT based Weather station for real time information. 3. Li-Fi based safes. 4. WIMAX technology.	Electronic and Cloud storage. IOT and meteorology. LIFI and Cyber security. Telecommunication.
16	1. Smart digital Bell with Timetable display	Automation

17	1. Smart Home Automation	Automation
18	Object Detecting Robot	Automation
19	Dog Daycare Robot	Robotics/IOT
20	Kinetic energy Generation by fan	Energy Regeneration
21	AI drink mixer	AI
22	GPS track talk	GPS Application
23	Small Gps tracking system	GPS Application
24	AI Virtual assistant robot	AI
25	Disaster Management Drone	Robotics

ProjectID	Project title	Types of Relevance
P1	Autonomous Disaster Response Drone - Jatayu D1	Society
P2	Data Acquisition System	Environment
P3	Automated OpenCV Car	Environment
P4	Smart Door Lock System	Security
P5	E-Trolley	Environment
P6	LPG Gas Detection & Protection	Safety
P7	IoT based Agricultural using Arduino	Environment
P8	AI Assistant Robot with Arduino & Python	Education
P9	AI Applications and Web Development	Education
P10	Drone Based Radar System	Security
P11	Agrobot	Environment
P12	Novel Smart Drainage System	Environment
P13	3-D Printer	Society
P14	Smart Glasses Powered by Raspberry Pi	Health
P15	Hypothetical Perpetual Energy Converter	Environment
P16	Smart Water Body Cleaner	Environment
P17	Industrial Automation using Programmable switch	Society
P18	Mini -computer for Handicapped people	Society

Fig. 2023-2024 Project list with Types of relevance

C. PROCESS FOR MONITORING AND EVALUATION (5)



D. Process to access individual and team performance (5)

ST. .XAVIER'S TECHNICAL INSTITUTE, MAHIM**RUBRIC FOR CAPSTONE PROJECT (23507)****SEM – V****AY – 2025-26**

Below is a **Project Evaluation Rubric** for CAPSTONE PROJECT . It can be used for evaluating final-year major projects.

Sr. No.	Evaluation Criteria	Description	Marks
1	PROJECT REPORT	Well-organized report with proper formatting. Clearly defines the problem, objectives, explanation, methodology, future scope, literature survey and references of the project.	20
2	PROJECT EXPLANATION	Students are able to explain and demonstrates engineering concepts, methodology , Literature survey, circuit/design development, coding/fabrication, and innovation.	10
3	MARKETABILITY	Students project can be a product in industry and it will get sale in market..	10
4	SOCIAL USE	It should be application based and society can use for better life.	10
8	QUESTION /ANSWER	Ability to answer questions and demonstrate understanding of the project.	10
Total			60

PERFORMANCE LEVELS:

Performance Level	Score Range	Descriptor
Excellent (4)	55–60	Exceptional understanding, innovative solution, excellent implementation and presentation.
Good (3)	45–54	Good technical knowledge, minor shortcomings, project meets objectives effectively.
Satisfactory (2)	35 –44	Adequate performance with acceptable implementation and documentation.
Needs Improvement (1)	Below 35	Incomplete work, weak technical understanding, poor presentation or documentation.

Fig: Rubrics for Project Evaluation

RUBRIC RATING SCALE :

Criteria	Excellent (4)	Good (3)	Satisfactory (2)	Needs Improvement (1)
Problem Definition	Problem and objectives are clearly defined.	Mostly clear with minor gaps.	Basic definition only.	Unclear or incomplete.
Technical Implementation	Highly accurate, innovative, and fully functional.	Technically sound with minor issues.	Functional but limited.	Major technical deficiencies.
Documentation	Complete, well-structured, error-free.	Good with minor errors.	Acceptable but incomplete.	Poor or missing documentation.
Presentation & Viva	Excellent communication and confident responses.	Good presentation and answers.	Average communication.	Poor presentation and inadequate responses.


Sanjiv Borkar

Project Coordinator


Dr. Vijay Rathod
HOD,

MARKSHEET FOR GUIDE

ACADEMIC YEAR : (2025-26)

SUB : CAPSTON PROJECT (23507)

Date of Examination : 7 th November 2025

SEM : V

Time : 9.00 am to 4.00 pm

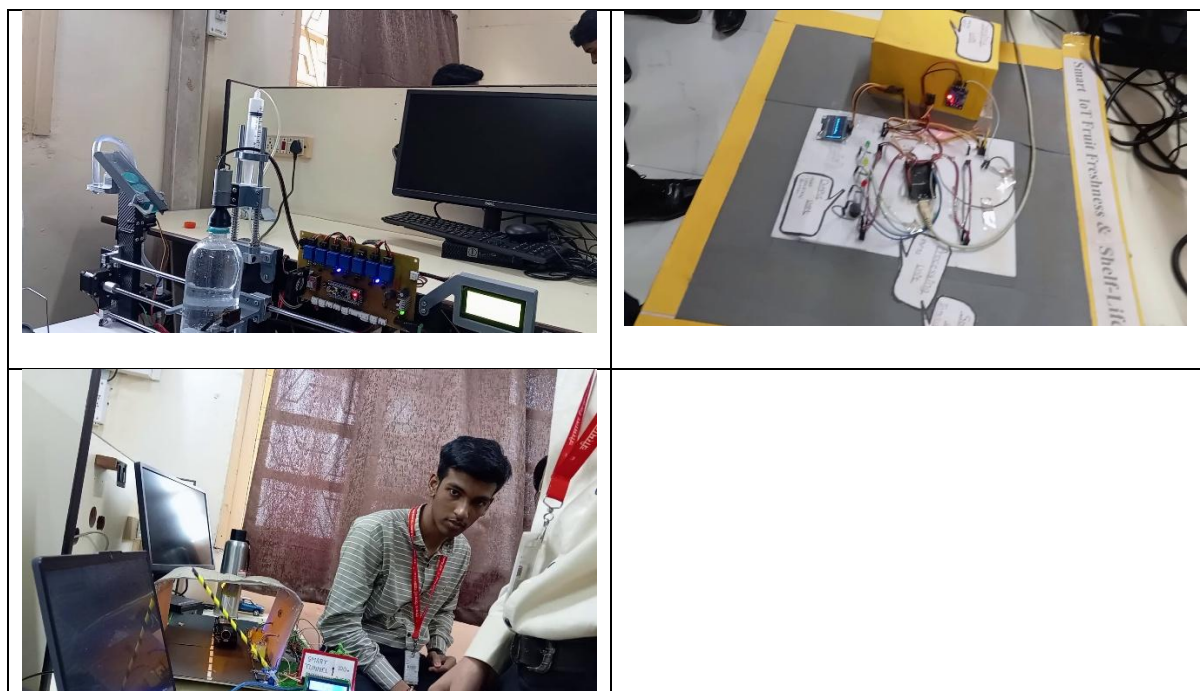
Name of Guide : Dr. Janani Natarajan

Final Project Examination

Project ID	SPN No.	Name of student	Title of project	Project report (20 marks)	Project explanation (10 marks)	Marketability (10 Marks)	Social use (10 Marks)	Questions /Answer (10 Marks)	Total (60 Marks)
P1	2303029	Shardul Joshi	Smart Trax (Smart traffic control system)	20	10	9	9	9	57
	2303042	Sudhanshu Matkar		20	10	9	9	10	58
	2303072	Ravi Kishan Sharma		20	10	9	9	10	58
	2303114	Payal Pandit		19	10	9	9	9	56

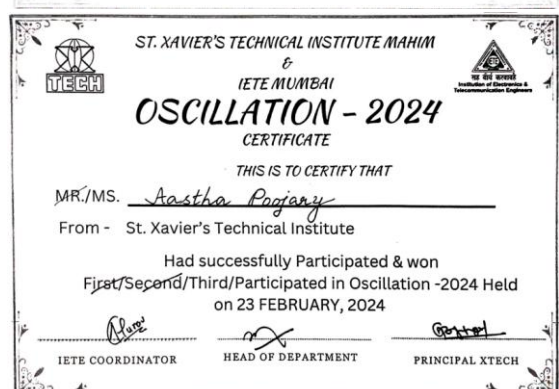
Dr. Janani Natarajan. N.B.
Name and Sign of Guide / 07/11/25
Internal examiner

E. QUALITY OF DELIVERABLE, WORKING PROTOTYPES (12)



F. PAPERS PUBLISHED / AWARDS / RECOGNITION RECEIVED BY PROJECT AT STATE / NATIONAL LEVEL (5)

Sr.	Name of Student	College name	Name of event	Details of event	Result
1	ABBAS DAWOOD DAMANIYA	Vivekanand Education Society's Polytechnic College Chembur, Mumbai 400071	TECHNOTHON 2024	TECH CRACKER-GRAND FINALIST OF TECHNOHON 2024- A24 HOURS INTER COLLEGE HACKATHOPN	certificate of appreciation
2	ABBAS DAWOOD DAMANIYA	Vivekanand Education Society's Polytechnic College Chembur, Mumbai 400071	TECHNOVATION 2024	STATE LEVEL TECHNICAL PAPER PRESENTATION 02-03-2024	certificate of appreciation
3	ABBAS DAWOOD DAMANIYA	Maharashtra State Board of Technical Education (MSBTE) bandra , Kherwadi	state level technical paper presentation competition	31/01/2024 Academic year 2023-24	second prize
4	ABBAS DAWOOD DAMANIYA	St Xaviers Technical Institute& IETE MUMBAI	OSCILLATION-2024	23-Feb-24	FIRST PRIZE
5	ABBAS DAWOOD DAMANIYA	DIPEX 2024	AUTONOMUS DISASTER RESPONSE DRONE	PROJECT THEME MOBILITY -7TH-10TH MATCH 23024	certificate of participation
6	ABBAS DAWOOD DAMANIYA	TSEC THADOMAL SHAHANI ENGINEERING COLLEGE	ROUND 1-TECH-A-THON HARDWARE HACKATHON	PROJECT----- 10TH FEB 2024	certificate of participation
7	ASHISH GUPTA	TSEC THADOMAL SHAHANI ENGINEERING COLLEGE	ROUND 1-TECH-A-THON HARDWARE HACKATHON	PROJECT----- 10TH FEB 2024	certificate of participation
8	ASHISH GUPTA	St Xaviers Technical Institute& IETE MUMBAI	OSCILLATION-2024	23-Feb-24	certificate of participation
9	ASHISH GUPTA	DIPEX 2024	AUTONOMUS DISASTER RESPONSE DRONE	PROJECT THEME MOBILITY -7TH-10TH MATCH 23024	certificate of participation
10	UPENDRA MEHER	St Xaviers Technical Institute& IETE MUMBAI	OSCILLATION-2024	23-Feb-24	second prize
11	BHARUDAS TUKRUL	St Xaviers Technical Institute& IETE MUMBAI	OSCILLATION-2024	23-Feb-24	second prize
12	SATISH TAKLE	St Xaviers Technical Institute& IETE MUMBAI	OSCILLATION-2024	23-Feb-24	second prize
13	AASTHA POOJARY	TSEC THADOMAL SHAHANI ENGINEERING COLLEGE	ROUND 1-TECH-A-THON HARDWARE HACKATHON	PROJECT----- 10TH FEB 2024	certificate of participation
14	AASTHA POOJARY	SVKM's Shri Bhagubhai Mafatlal Polytechnic	TECH FAIR '24	STATE LEVEL TECHNICAL PAPER PRESENTATION ON 6-3-2024	certificate of participation
15	AASTHA POOJARY	St Xaviers Technical Institute& IETE MUMBAI	OSCILLATION-2024	23-Feb-24	THIRD prize
16	AASTHA POOJARY	VIDYALANKAR POLYTECHNIC	V-TECHNOVATION	3D-PRINTER---STATE LEVEL PROJECT COMPETITION 2	certificate of participation
17	DEVASHREE SURVE	Vivekanand Education Society's Polytechnic College Chembur, Mumbai 400071	TECHNOTHON 2024	TECH CRACKER-GRAND FINALIST OF TECHNOHON 2024- A24 HOURS INTER COLLEGE HACKATHOPN	certificate of appreciation
18	DEVASHREE SURVE	St Xaviers Technical Institute& IETE MUMBAI	OSCILLATION-2024	23-Feb-24	THIRD prize
19	SOUMAY KISHOR JAWADE	Maharashtra State Board of Technical Education (MSBTE) bandra , Kherwadi	state level technical paper presentation competition	31/01/2024 Academic year 2023-24	second prize
20	SOUMAY KISHOR JAWADE	St Xaviers Technical Institute& IETE MUMBAI	OSCILLATION-2024	23-Feb-24	FIRST PRIZE
21	SOUMAY KISHOR JAWADE	DIPEX 2024	AUTONOMUS DISASTER RESPONSE DRONE	PROJECT THEME MOBILITY -7TH-10TH MATCH 23024	certificate of participation
22	SOUMAY KISHOR JAWADE	Vivekanand Education Society's Polytechnic College Chembur, Mumbai 400071	TECHNOTHON 2024	TECH CRACKER-GRAND FINALIST OF TECHNOHON 2024- A24 HOURS INTER COLLEGE HACKATHOPN	certificate of appreciation
23	SOUMAY KISHOR JAWADE	TSEC THADOMAL SHAHANI ENGINEERING COLLEGE	ROUND 1-TECH-A-THON HARDWARE HACKATHON	PROJECT----- 10TH FEB 2024	certificate of participation
24	SOUMAY KISHOR JAWADE	Vivekanand Education Society's Polytechnic College Chembur, Mumbai 400071	TECHNOVATION 2024	STATE LEVEL TECHNICAL PAPER PRESENTATION 02-03-2024	certificate of appreciation
25	CHIRAG GUPTA	VIDYALANKAR POLYTECHNIC	V-TECHNOVATION	3D-PRINTER---STATE LEVEL PROJECT COMPETITION 2	certificate of participation
26	CHIRAG GUPTA	SVKM's Shri Bhagubhai Mafatlal Polytechnic	TECH FAIR '24	STATE LEVEL TECHNICAL PAPER PRESENTATION ON 6-3-2024	certificate of participation
27	CHIRAG GUPTA	XAVIER INSTITUTE OF ENGINEERING		HUMSHAKALS COMPETITION 18-1-2024	certificate of appreciation
28	CHIRAG GUPTA	XAVIER INSTITUTE OF ENGINEERING		AFLA ST. HARDWARE JN COMPETITION 18-1-2024	certificate of appreciation
29	CHIRAG GUPTA	Maharashtra State Board of Technical Education (MSBTE) bandra , Kherwadi	state level technical paper presentation competition	INTEGRATION OF AI IN 5G TECHNOLOGY 31/01/2024 Academic year 2023-24	certificate of participation
30	CHIRAG GUPTA	DIPEX 2024	AUTONOMUS DISASTER RESPONSE DRONE	PROJECT THEME MOBILITY -7TH-10TH MATCH 23024	certificate of participation
31	OM TAMBE	St Xaviers Technical Institute& IETE MUMBAI	OSCILLATION-2024	23-Feb-24	certificate of participation
32	ARYAN SAWANT	SVKM's Shri Bhagubhai Mafatlal Polytechnic	TECH FAIR '24	STATE LEVEL TECHNICAL PAPER PRESENTATION ON 6-3-2024	certificate of participation
33	HAYDEN ALVARES	SVKM's Shri Bhagubhai Mafatlal Polytechnic	TECH FAIR '24	STATE LEVEL TECHNICAL PAPER PRESENTATION ON 6-3-2024	certificate of participation



2.2.5 INDUSTRY INTERACTION AND INDUSTRY INTERNSHIP/ TRAINING (30)**A. INDUSTRY SUPPORTED LAB (2)**

Some of the laboratories were established with the help of sponsorship from few Industries

Sr. No.	Name of the Laboratory	Sponsoring Industry
1.	Microprocessor Lab	1. Anshuman Tech Pvt. Ltd. 2. Digel Systems
2.	Communication Lab	1. Renuka Enterprises 2. ARK Instruments

B. DELIVERY OF APPROPRIATE COURSEWORK BY INDUSTRY EXPERTS (5)

Sr. No.	Name of the Speaker	Industry	Courses covered	Academic year
1.	Mr. Prakash Lokhande	IBM SkillBuild	AI & ML	2025-26
2.	Mr. Saeed Malik	LinkedIn	LinkedIn for Career growth	
3.	Mr. Henry Mendis	XIE, Computer Admin	Wireless Adhoc Networks	2024-25
4.	Mr. Anirudha Kulkarni	RF Aqua Solutions Pvt. Ltd.,	Antenna Workshop	
5.	Mr. Rajiv Yadav	KPMG India	Latest trends in DCCN	
6.	Ms. Sonal Dubal	TCET, Mumbai	Industry 4.0	2023-24
7.	Dr. Ketan Kotecha	Director, Symbiosis Univ.	AI for Electronics	

C. INDUSTRIAL VISITS/TOURS FOR STUDENTS (3)

Sr. No.	Industry visited	Courses covered	Academic year
1.	Automation Expo	Automation, Entrepreneurship	2025-26
2.	IDEA & INTEL-Unnati Lab CoE, Shah & Anchor College	Robotics, Drone, AI	
3.	Doordarshan Kendra	Communication	2024-25
4.	CoE, Shah & Anchor College	Robotics, AI	2023-24

D. INDUSTRIAL TRAINING/INTERNSHIP (5)

The purpose of industrial training is to bridge the gap between education and industry, equipping students with the necessary skills and experience to succeed in their careers. The students of ELECTRONICS & TELECOMMUNICATION Engineering are to complete internship at an approved organization, during final year (sixth semester). The duration is 24 weeks.

The steps to be followed for its effective implementation include-

- Collection of data from various sources such as NATS(National apprenticeship training scheme), BOAT, Confederation of Indian Industry (CII), AICTE, websites for student's placement in the industry, addresses, contact persons, phone nos. and mail id of contact persons, type of business and product ,registration with Intern shala etc.
- Submission of an introductory letter/mail to industrial undertakings.
- Obtaining placements for the students,
- Issue of letters and completion of procedures,
- Assigning industries to departmental faculties for monitoring the industrial trainees.
- Orientation programme for students two weeks before reporting for Internship.
- Monitoring internship(at least once intwo weeks for each industry). Implementation and evaluation of Internship.
- The department has organized a well-planned system for supervision of the students while they are intraining. A faculty member is assigned to a group of students.
- He/She visit each student once in a month on the average and maintains close liaison with his/her counterpart in the organization.
- In case of any problem or difficulty, students have to contact their TPO I FACULTY INCHARGE & communicate the issue.
- In case of strike/lockout or urgency, students should contact section in-charge of industry in which they are working, TPO / FACULTY INCHARGE, concerned Head of Department and Training and Placement Officer.

E. POST TRAINING/ LNTERNSHIP ASSESSMENT (10)

Regular monitoring of the students will be done by the TPO / FACULTY INCHARGE^s. Progress of the students will be monitored jointly by the supervisor from institute and industry. TPO / FACULTY INCHARGE^s will take review of daily and weekly diary during every visit.

Term work of the students will be evaluated jointly by the industry supervisor and TPO / FACULTY INCHARGE^s, based upon the performance of the students & work done by the student during the training.

As a part of term work, industry supervisor will evaluate out of 75 marks, considering the following points. TPO / FACULTY INCHARGE will evaluate the students out of 75 marks considering the following points.

- i. Punctuality
- ii. Weekly diary maintenance
- iii. Learning initiatives
- iv. Internship report writing, and
- v. knowledge gained /skills achieved.

Total marks given by industry supervisor and TPO / FACULTY INCHARGE will be the total term work marks obtained by students during Industrial training (out of 150). Respective department shall maintain the record of the same.

- i. Punctuality
- ii. Discipline
- iii. Learning initiatives
- iv. Daily and weekly diary maintenance and
- v. knowledge gained /skills achieved.

End Semester External Oral Examination

Evaluation of end semester external oral examination for 150 marks will be done jointly by the internal examiner from the respective department and external examiner, preferably from industries. Students are evaluated based on presentation, knowledge gained and viva exam. The basic/core practical skills out of the total skills which students are supposed to have learnt during their industrial training are examined. Various documents such as training report, daily and weekly diaries, special task work, projects, assignments etc. can be reviewed for the same.

- Term work evaluation criteria for Industrial training is as given below:
- **Term work evaluation by Industry supervisor**

	Punctuality/ Discipline	Learning initiatives/ Attitude	Daily and weekly diary maintenan ce	Industrial training report writing	Knowled ge gained /skills achieved	Total marks
Max. Marks	15	15	15	15	15	75
Marks obtained						
Name and signature, and seal of Industry Supervisor / Engineer						

Term work evaluation by TPO / FACULTY INCHARGE

	Punctuality / Discipline	Learning initiatives/ Attitude	Daily and weekly diary maintenance	Industrial training report writing	Knowled ge gained / skills achieved	Total marks
Max. Marks	15	15	15	15	15	75
Marks obtained						
Name and signature, and seal of Industry Supervisor / Engineer						

Viva (Oral exam) evaluation by Industry supervisor

	Ability to apply knowledge in practice	Leadershi p qualities	Interperso nal skills	Inculcatio n of safety attitude	Presentatio n & learning outcomes	Total marks
Max. Marks	15	15	15	15	15	75
Marks obtained						
Name and signature, and seal of Industry Supervisor / Engineer						

Viva (Oral exam) evaluation by TPO / FACULTY INCHARGE

	Review of industrial assignment s/ work done	Team skills	Industrial safety awareness	Correlation of theory and industrial practices	Presentation & learning outcomes	Total marks
Max Marks	15	15	15	15	15	75
Marks obtained						
Name, signature , and seal of TPO / FACULTY INCHARGE						

F. CONTRIBUTION TO COMMUNITY RELATED PROJECTS / ACTIVITIES (5)

No Drugs Day with Mumbai Police



Green Cell- An initiative to make campus 0 plastic zone and segregate E waste



**"BLOOD DONATION CAMP" arranged by NSS
unit of XTECH in association with S.L.RAHEJA HOSPITAL, NARAYANA HEALTH SRCC
CHILDREN'S HOSPITAL MUMBAI 25/02/2025**



N.S.S. – cleaning Mahim Beach



2.2.6 INFORMATION ACCESS FACILITIES AND STUDENT CENTRIC LEARNING INITIATIVE (15)

A. Availability of facilities & Effective Utilisation; specify the facilities, materials and scope for self-learning, Webinar,NPTEL Podcast,MOOC's etc. (10)

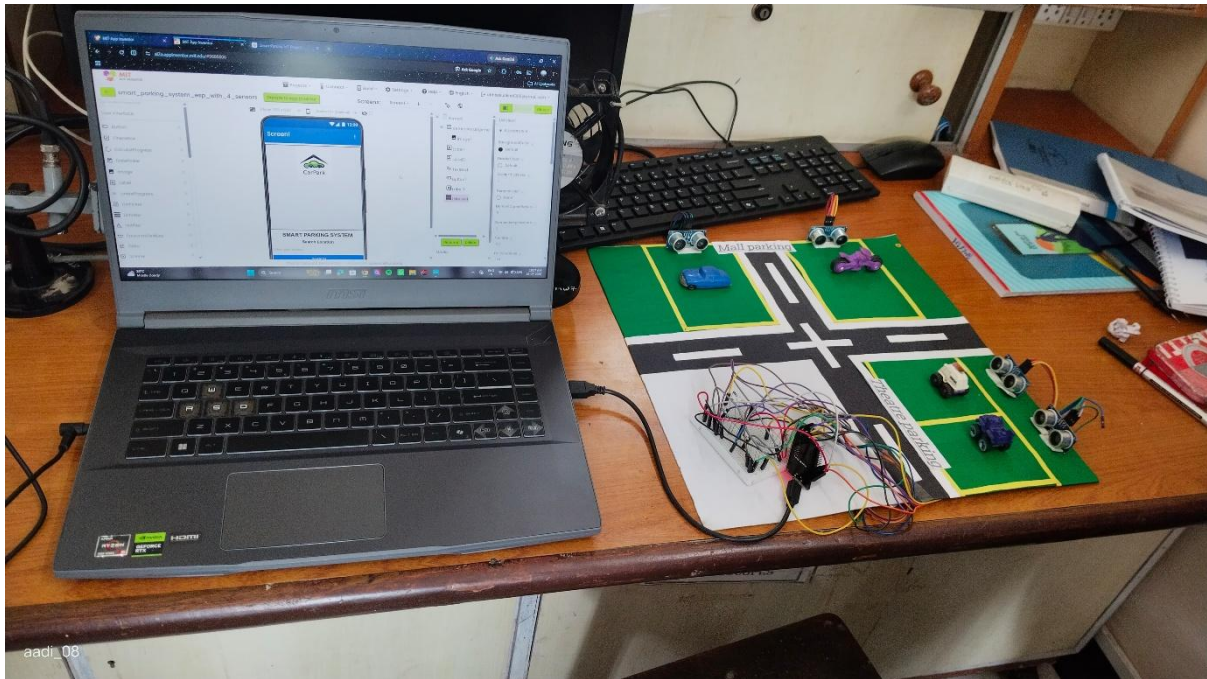


Student Centric Learning Initiative – MOOCs, NPTEL

B. STUDENT CENTRIC LEARNING INITIATIVES & EFFECTIVE IMPLEMENTATION (5)



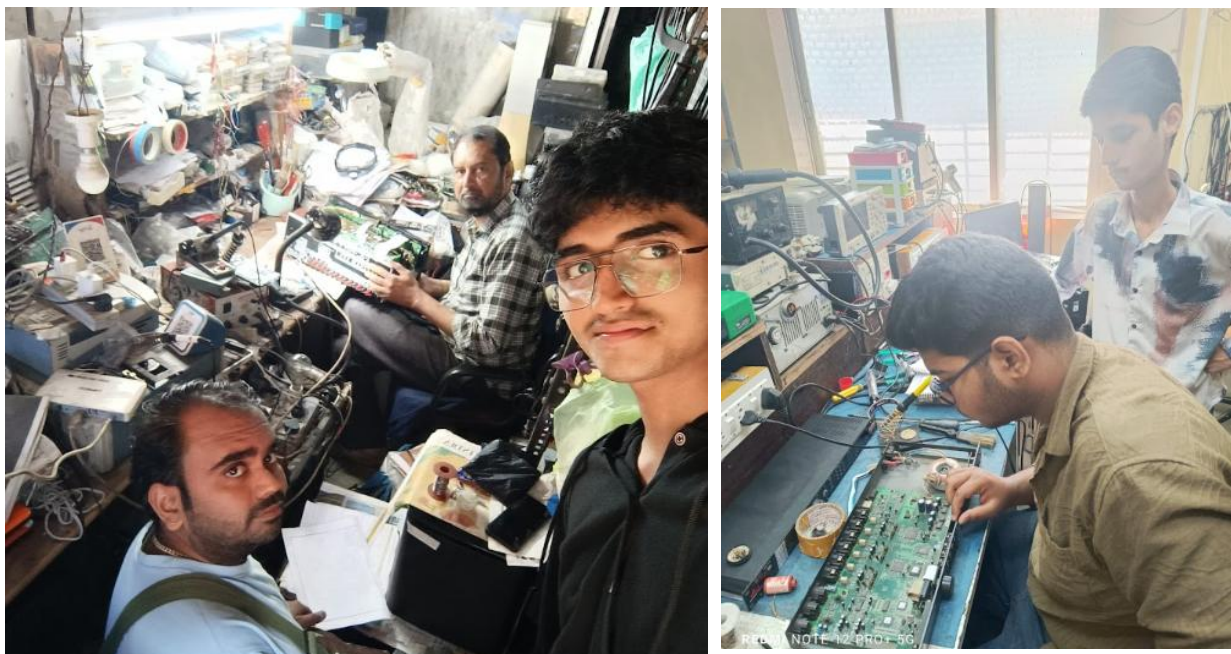
Student Centric Learning Initiative – Flipped Classroom



Student Centric Learning Initiative – Microprojects

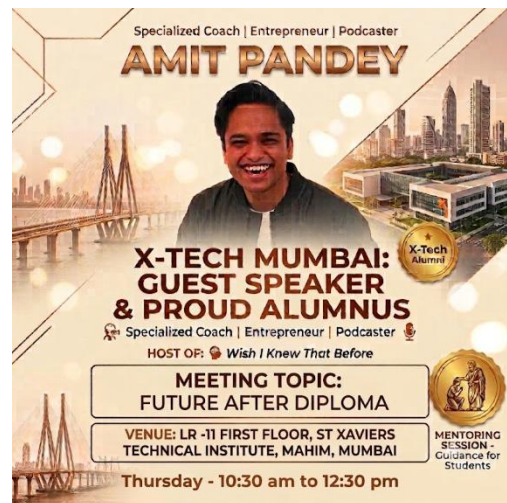
2.2.7 NEW INITIATIVES FOR EMBEDDING PROFESSIONAL SKILLS (15)

A. EMPLOYABILITY SKILL ENHANCEMENT INITIATIVE AND EFFECTIVE IMPLEMENTATION (8)



Hands on training at Internship and Monitoring by industry supervisor and internal staff member

B. PERSONALITY DEVELOPMENT RELATED INITIATIVE & EFFECTIVE IMPLEMENTATION (7)



Personality Development Guidance session by Alumini Mr. Shivam

2.2.8 CO-CURRICULAR & EXTRA CURRICULAR ACTIVITIES (10)

Hackathon Event – 23.1.24



XTECH OSCILLATION 2025 WINNERS are felicitated in Valedictory function



CRITERION 3	COURSE OUTCOMES AND PROGRAM OUTCOMES	100
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Define the Program Specific Outcomes (PSOs)

The following are the Program specific outcomes define by the program

PSO1	Design, verify and validate electronic functional elements for a variety of applications, with skills to interpret and communicate results.
PSO2	Exercise good programming practices employing low or high level languages on appropriate platforms.

3.1. ESTABLISH THE CORRELATION BETWEEN THE COURSES AND THE POS AND PSOS. (20)**3.1.1 COURSE OUTCOMES (SAR SHOULD INCLUDE COURSE OUTCOMES OF ONE COURSE FROM EACH SEMESTER OF STUDY, HOWEVER, SHOULD BE PREPARED FOR ALL COURSES.) (5)**

Note : Number of Outcomes for a Course expected to be 3 to 5.

Course Name : Mathematics - I

Course Year : 2025-26

Course Outcome	Statement
CO 101.1	Apply the concepts of Logarithm and Partial Fractions to solve Engineering related problems.
CO 101.2	Apply the concepts of Determinants to solve Engineering related problems.
CO 101.3	Apply the concepts of Matrices to solve Engineering related problems.
CO 101.4	Apply concept of straight lines for solving problems in geometrical applications.
CO 101.5	Utilize basic concepts of Trigonometry to solve elementary Engineering problems.
CO 101.6	Calculate measures of dispersion using statistical data.

Course Name : Mathematics - II

Course Year : 2025-26

Course Outcome	Statement
CO 201.1	Evaluate slope of curve, maxima and minima of a function.
CO 201.2	Solve the given problems on Integration using suitable methods.
CO 201.3	Apply concept Integration to find area under a curve, area between two curves and volume of revolution.
CO 201.4	Apply Differential Equations for solving problems in Electronics Engineering field.
CO 201.5	Solve given problems based on Algebra of Complex Numbers.
CO 201.6	Use Laplace Transforms to solve first order, first degree differential equations.

Course Name : Principles of Electronic Communication Course Year : 2025-26

Course Outcome	Statement
CO 301.1	Understand the need & fundamentals of Various Modulation and Demodulation techniques.
CO 301.2	Analyze the operation of AM & FM transmitter and receiver.
CO 301.3	Express the role of different types of Wave Propagation in communication circuits.
CO 301.4	Recognize & Describe the construction, principle of operation of various types of Antennas and their uses in communication.
CO 301.5	Identify & Describe the fundamentals of different types of Pulse communication.

Course Name : Microcontroller Course Year : 2025-26

Course Outcome	Statement
CO 401.1	Analyze the architecture of 8051 Microcontrollers.
CO 401.2	Develop assembly language program for microcontroller applications.
CO 401.3	Illustrate the functions of SFRs in microcontroller applications.
CO 401.4	Interface the special purpose peripherals 8255 and 0808 with 8051 microcontroller.
CO 401.5	Demonstrate the designing of a microcontroller-based system.
CO 401.6	Interface External devices with microcontroller.

Course Name : Control Systems Course Year : 2025-26

Course Outcome	Statement
CO 501.1	Classify types of control system, list examples of control system & applications.
CO 501.2	Apply techniques for Block Diagram reduction and signal flow graph.
CO 501.3	Analyze the behavior of the control system using standard test signals.
CO 501.4	Examine the stability of the control system.
CO 501.5	Inspect the stability of system using Root Locus.
CO 501.6	Demonstrate the Error Detection and Correction mechanism in control system.

Course Name : Industrial Training Course Year : 2025-26

Course Outcome	Statement
CO 601.1	Enable to learn various aspects of the functioning of the industry.
CO 601.2	Enable to interact and communicate with people associated with the industry.
CO 601.3	Develop confidence among students.
CO 601.4	Build personality among students.
CO 601.5	Gain work experience in a real-time industry environment.
CO 601.6	Expose to the environment and working conditions in industry.

3.1.2 CO-PO MATRICES OF COURSE SELECTED IN 3.1.1 (SIX MATRICES TO BE MENTIONED; ONE PER SEMESTER FROM 1ST TO 6TH SEMESTER) (5)

Course name : Mathematics – I

SEM I	Mathematics -I								
	1 st Course in First Semester								
CO 101	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2
CO 101.1	3	1	-	1	-	1	1	1	0
CO 101.2	3	2	1	1	-	1	1	1	0
CO 101.3	3	2	1	1	-	1	1	1	0
CO 101.4	3	2	1	2	-	1	1	1	0
CO 101.5	3	2	1	1	-	1	1	1	0
CO 101.6	3	2	2	2	1	1	1	1	0
CO TOTAL	18	11	06	08	01	06	06	6	0
CORRELATION LEVEL	3	2	1	1	0	1	1	2	0

Course name : Mathematics – II

SEM II	Mathematics -II								
	1 st Course in Second Semester								
CO 201	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2
CO 201.1	3	2	1	2	1	1	2	0	0
CO 201.2	3	2	1	2	-	1	1	0	0
CO 201.3	3	2	1	2	1	1	1	0	0
CO 201.4	3	2	2	1	-	1	1	1	0
CO 201.5	3	1	1	1	-	1	2	1	0
CO 201.6	3	1	1	1	-	1	1	1	0
CO TOTAL	18	10	07	09	02	06	08	03	00
CORRELATION LEVEL	3	2	1	2	0	1	1	1	0

Course name : Principles of Electronic Communication

SEM III	Principles of Electronic Communication								
	1 st Course in Third Semester								
CO 301	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2
CO 301.1	3	2	1	2	2	1	2	2	1
CO 301.2	3	3	2	3	2	1	2	2	1
CO 301.3	2	3	3	2	3	1	2	3	1
CO 301.4	3	3	3	3	2	1	2	2	1
CO 301.5	2	3	2	3	3	1	2	3	1
CO TOTAL	16	17	13	15	15	6	12	12	5
CORRELATION LEVEL	3	3	2	3	3	1	2	2	1

Course name : Microcontroller

SEM IV	Microcontroller								
	1 st Course in Fourth Semester								
CO 401	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2
CO 401.1	2	-	2	2	2	2	2	0	0
CO 401.2	2	1	3	2	1	2	2	2	3
CO 401.3	2	-	3	2	-	2	-	1	3
CO 401.4	2	2	3	3	1	2	1	2	3
CO 401.5	2	2	3	3	1	2	1	2	3
CO 401.6	2	2	3	3	1	2	1	2	3
CO TOTAL	12	07	17	15	06	12	07	09	15
CORRELATION LEVEL	2	1	3	3	1	2	1	2	3

Course name : Control Systems

SEM V	Control Systems								
	1 st Course in Fifth Semester								
CO 501	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2
CO 501.1	2	-	2	1	2	1	1	1	0
CO 501.2	2	2	1	1	-	1	-	1	0
CO 501.3	1	1	3	2	1	1	-	1	1
CO 501.4	1	1	-	-	1	1	-	1	1
CO 501.5	1	2	2	2	1	1	-	1	1
CO 501.6	1	2	3	2	1	3	3	1	0
CO TOTAL	8	8	11	8	6	8	4	6	3
CORRELATION LEVEL	1	1	2	1	1	1	1	1	1

Course name : Industrial Training

SEM VI	Industrial Training								
	1 st Course in Sixth Semester								
CO 601	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2
CO 601.1	2	3	3	3	3	3	3	1	1
CO 601.2	2	3	3	3	3	3	3	1	0
CO 601.3	2	-	3	3	3	3	3	0	0
CO 601.4	2	-	3	3	3	3	3	1	0
CO 601.5	2	-	3	3	3	-	3	3	2
CO 601.6	2	-	3	3	3	-	3	3	1
CO TOTAL	18	06	18	18	18	12	18	9	4
CORRELATION LEVEL	3	1	3	3	3	2	3	2	1

**3.1.3- A PROGRAM LEVEL COURSE-PO MATRIX OF ALL COURSES
INCLUDING FIRST YEAR COURSES (10)**

Course	PO1	P02	P03	P04	P05	P06	P07
CO 101	3	2	1	1	0	1	1
CO 102	3	2	2	2	1	1	1
CO 103	3	1	1	2	1	1	1
CO 104	3	1	2	1	0	1	0
CO 105	0	0	0	3	3	3	3
CO 106	0	3	0	2	3	3	3
CO 107	0	0	0	2	2	3	3
CO 108	0	1	0	0	2	1	1
CO 109	0	0	0	3	3	3	3
CO 201	3	2	1	2	0	1	1
CO 202	2	2	2	2	1	1	2
CO 203	3	1	1	2	1	1	2
CO 204	3	1	2	1	1	1	1
CO 205	3	1	2	1	0	1	0
CO 206	3	1	2	1	1	1	0
CO 207	3	1	2	1	1	1	2
CO 301	3	3	2	3	3	1	2
CO 302	3	3	3	2	1	1	2
CO 303	2	1	2	1	1	2	1
CO 304	2	2	2	2	2	2	2
CO 305	3	3	2	2	1	1	2
CO 306	3	2	2	1	1	1	1
CO 307	3	2	3	2	1	1	1
CO 308	2	1	2	1	1	1	5
CO 401	2	1	3	3	1	2	1
CO 402	3	3	3	1	1	2	2
CO 403	3	3	2	2	1	1	2
CO 404	3	3	3	1	1	2	2
CO 405	3	3	3	1	1	2	2
CO 406	3	2	2	2	2	2	2
CO 407	3	3	3	1	1	2	2
CO 408	1	2	3	1	1	1	1
CO 409	3	3	3	1	1	2	2
CO 410	3	2	2	2	2	2	2
CO 501	1	1	2	1	1	1	1
CO 502	3	3	2	2	1	2	3
CO 503	3	3	2	2	1	1	3
CO 504	3	3	1	2	1	1	3
CO 505	3	3	1	3	1	2	3
CO 506	3	2	2	1	2	2	2
CO 507	3	3	0	3	3	3	3
CO 508	1	1	0	1	1	0	1
CO 509	3	3	2	2	3	2	2

CO 510	1	2	2	1	1	3	2
CO 511	1	1	2	1	1	1	1
CO 601	3	1	3	3	3	2	3

3.1.3- B Program level CO-PSO matrix of all courses INCLUDING first year course

Course	PSO1	PSO2
CO 101	2	0
CO 102	2	0
CO 103	2	0
CO 104	1	2
CO 105	2	0
CO 106	2	0
CO 107	1	1
CO 108	0	0
CO 109	1	1
CO 201	1	0
CO 202	2	0
CO 203	2	0
CO 204	2	0
CO 205	1	2
CO 206	2	0
CO 207	2	0
CO 301	2	1
CO 302	2	2
CO 303	0	0
CO 304	2	1
CO 305	2	0
CO 306	1	2
CO 307	3	3
CO 308	0	0
CO 401	2	3
CO 402	3	2
CO 403	2	1
CO 404	3	2
CO 405	3	2
CO 406	1	3
CO 407	2	3
CO 408	0	0
CO 409	2	1
CO 410	2	1
CO 501	1	1
CO 502	1	1
CO 503	3	0
CO 504	1	0
CO 505	3	2

CO 506	1	0
CO 507	3	3
CO 508	1	0
CO 509	3	1
CO 510	1	1
CO 511	0	2
CO 601	2	1

3.2 ATTAINMENT OF COURSE OUTCOMES (40)

3.2.1 DESCRIBE THE ASSESSMENT PROCESSES USED TO GATHER THE DATA UPON WHICH THE EVALUATION OF COURSE OUTCOME IS BASED (10)

In Course Outcomes Assessment Processes, Assessment tools are categorized into two methods to evaluate the Course outcomes. They are

- Direct Method
- Indirect Method

Direct Method is used to display the student's knowledge and skills from their performance in the continuous internal assessment tests, semester examinations, seminars, Projects and assignments

Indirect Method is implemented by conducting survey from the students to reflect on their learning which includes opinion, thoughts about the student's knowledge or skills.

Assessment processes of Course Outcomes for Regulation -2015(R15)

The course outcomes were prepared by the action verbs of blooms taxonomy. All the course outcomes are prepared in such a way that they are measurable by means of written and oral skills, the continuous internal assessment tests, semester examinations, seminars, Projects and assignments.

The collection of data for evaluation of course outcomes are as follows:

1. Progressive Assessment (PA)
2. End Semester Examinations (ESE)
3. Laboratories
4. Micro Project
5. Major Project
6. Technical Seminar
7. Comprehensive Viva

8. **MOOCs (Massive Open Online Courses)** play a vital role in assessing students attainment of **Course Outcomes (COs)** by providing diverse learning experiences, self-paced assessments, and industry-aligned content. MOOCs also offer **certifications and analytics-based tracking**, allowing educators to assess students progress and alignment with COs. By integrating MOOCs into the curriculum, we ensure **continuous learning, skill enhancement, and global benchmarking**, ultimately improving students competency and course outcome attainment.

These assessments are carried out periodically and hence allow the faculty members to monitor and provide attention to the students who may not be attaining the PO's to the required level. This ensures that all students attain the minimum level of each COs and POs.

3.2.2 RECORD THE ATTAINMENT OF COURSE OUTCOME OF ALL COURSES WITH RESPECT TO SET ATTAINMENT LEVELS (30)

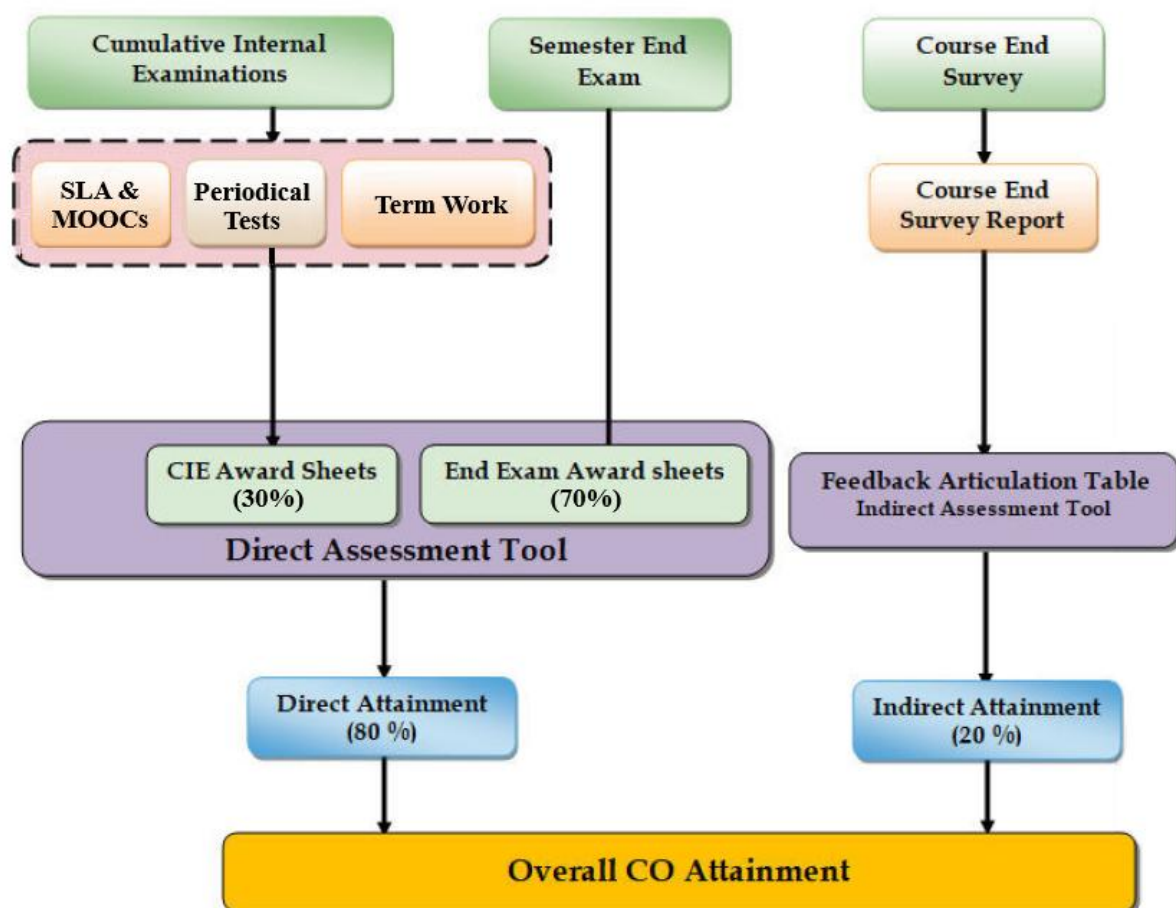
Program shall have set Course Outcome attainment levels for all courses.

Measuring Course Outcomes attained through Theory and Practical examinations, Periodical Test, term work etc.

Attainment Level 1: 50% students scoring more than above average marks in the Final examination is considered to be attainment of "1".

Attainment Level 2: 60% students scoring more than above average marks in the Final examination is considered to be attainment of "2".

Attainment Level 3: 70% students scoring more than above average marks in the Final examination is considered to be attainment of "3".



Sr. No.	Assessment Tool	Maximum marks	Threshold level (%)	Attainment level Criteria	Attainment level
1	Progressive Assessment (PA)	30	60%	At least 70% of attempted students exceed threshold level (60%) marks	3
				At least 60%-69% of attempted students exceed threshold level (60%) marks	2
				At least 50%-59% of attempted students exceed the threshold level (60%) marks	1
2	End Semester Examinations (ESE)	70	60%	At least 70% of attempted students exceed threshold level (60%) marks	3
				At least 60%-69% of attempted students exceed threshold level (60%) marks	2
				At least 50%-59% of attempted students exceed the threshold level (60%) marks	1

Sr. No.	Assessment Tool	Maximum marks	Threshold level (%)	Attainment level Criteria	Attainment level
3	Laboratories	75 Term Work - 25 Practical Exam - 50	60%	At least 70% of attempted students exceed threshold level (60%) marks	3
				At least 60%-69% of attempted students exceed threshold level (60%) marks	2
				At least 50%-59% of attempted students exceed the threshold level (60%) marks	1
4	SLA / Micro Project	25	60%	At least 70% of attempted students exceed threshold level (60%) marks	3
				At least 60%-69% of attempted students exceed threshold level (60%) marks	2
				At least 50%-59% of attempted students exceed the threshold level (60%) marks	1
5	Major Project	200 50 - Internal 150 - External 1	60%	At least 70% of attempted students exceed threshold level (60%) marks	3
				At least 60%-69% of attempted students exceed threshold level (60%) marks	2
				At least 50%-59% of attempted students exceed the threshold level (60%) marks	1

Course Outcome	Course outcome attainment level from internal assessment	Course outcome attainment level from end semester exam	CO Direct Attainment	CO Indirect Attainment	Over all CO Attainment
CO Attainment	a1 (avg of 2 Periodical Tests)	b1	$c1 = [(0.3(a1) + 0.7(b1)) + 0.25 \text{ SLA} + 0.25 \text{ TW} + 0.5 \text{ PE}] / 2$	$d1 = \frac{(1 \times X) + (2 \times Y) + (3 \times Z)}{(X+Y+Z)}$	$0.8(c1) + 0.2(d1)$

X---Number of students Opted for Low Option,

Y---Number of students Opted for Medium Option,

Z---Number of students Opted for Substantial High Option

DIRECT ASSESSMENT EVALUATION:

1. Cumulative Internal Examinations (Periodical Tests)

- Total Duration: 90 Minutes
- Subjective Paper: 30 Marks

PT1 30 Marks (CO1, CO2 & CO3)

PT2 30 Marks (CO4, CO5 & CO6)

Average 30 Marks

COURSE	OverAll Theory Attainment	OverAll Practical Attainment	Course Outcome (CO)	Course Outcome (CO) 80%	Course Outcome (CO) 20%	Attainment
Mathematics -1	0.6	3	1.8	1.44	0.4	1.84
Basic Electronics	0	2	1	0.8	0.4	1.2
Fundamental of Electrical Network	0.6	3	1.8	1.44	0.4	1.84
Introduction to IT	NA	2	2	1.6	0.4	2
Environmental Science	NA	1.5	1.5	1.2	0.4	1.6
Communication Skills	NA	3	3	2.4	0.4	2.8
Professional Practices	NA	0	0	0	0.4	0.4
Sports & Yoga	NA	3	3	2.4	0.4	2.8
Experimental Learning	NA	3	3	2.4	0.4	2.8
Mathematics ---II	0	3	1.5	1.2	0.4	1.6
Electronics Components & Sensors	NA	2.5	2.5	2	0.4	2.4
Electrical Devices & Machine	0	3	1.5	1.2	0.4	1.6
Electronics Devices & Circuits	0	1	0.5	0.4	0.4	0.8
Introduction to Programming	NA	0.5	0.5	0.4	0.4	0.8
Engineering Graphics	NA	0	0	0	0.4	0.4
Electronics Workshop	NA	1	1	0.8	0.4	1.2

COURSE	OverAll Theory Attainment	OverAll Practical Attainment	Course Outcome (CO)	Course Outcome (CO) 80%	Course Outcome (CO) 20%	Attainment
Principles of Electronic Communication	2.6	2.9925	2.79625	2.237	0.4	2.637
Digital Techniques	0.3	2.9925	1.64625	1.317	0.4	1.717
Linear Integrated Circuits	1.9	2.9925	2.44625	1.957	0.4	2.357
Python Programming	NA	2.9925	2.9925	2.394	0.4	2.794
Circuit Simulation & Circuit Building	NA	3	3	2.4	0.4	2.8
Software Simulation	NA	1.5	1.5	1.2	0.4	1.6
Academic Skill	NA	0	0	0	0.4	0.4
Microcontroller	0.9	2.9925	1.94625	1.557	0.4	1.957
Digital Communication	1.6	2.9925	2.29625	1.837	0.4	2.237
Circuit Network	2.6	2.9925	2.79625	2.237	0.4	2.637
Power Electronics	2.6	2.9925	2.79625	2.237	0.4	2.637
Internet of Things-IOT	NA	2.9925	2.9925	2.394	0.4	2.794
MOOC	NA	3	3	2.4	0.4	2.8
Python Programming in ML	NA	2.9925	2.9925	2.394	0.4	2.794
Social & Life Skills	NA	NA		0	0.4	0.4
Microprocessors & Microcontrollers	1.2	2.9925	2.09625	1.677	0.4	2.077
Signals & Systems	1.4	2.9925	2.19625	1.757	0.4	2.157
Advanced Communication Systems	1.4	2.9925	2.19625	1.757	0.4	2.157
Project 1	NA	3	3	2.4	0.4	2.8
Basic Control Systems	0.6	2.9925	1.79625	1.437	0.4	1.837
Vocational Training	NA	3	3	2.4	0.4	2.8
Circuit Simulation & PCB Design	NA	2.9925	2.9925	2.394	0.4	2.794

COURSE	OverAll Theory Attainment	OverAll Practical Attainment	Course Outcome (CO)	Course Outcome (CO) 80%	Course Outcome (CO) 20%	Attainment
Digital Signal Processing	3	2.9925	2.99625	2.397	0.4	2.797
Data Communication & Computer Networking	3	2.9925	2.99625	2.397	0.4	2.797
Digital Communication	3	2.9925	2.99625	2.397	0.4	2.797
Project 2	NA	1.5	1.5	1.2	0.4	1.6
Advanced Power Electronics	3	2.9925	2.99625	2.397	0.4	2.797
Scilab	NA	3	3	2.4	0.4	2.8
Industrial Management & Quality Control	3	NA	3	2.4	0.4	2.8
Technical Writing	NA	3	3	2.4	0.4	2.8

Course Outcome Attainment for Theory Exam:

Course Outcome Attainment = 70% of attainment level through autonomous exam
+ 30% of attainment level through P.T. exam

Course Outcome Attainment = 70% of attainment level through autonomous exam
+ 20% of attainment level through P.T. exam + 10% of attainment level through Microproject
This is calculated for each course.

ACADEMIC YEAR 2024 - 2025

THEORY, PERIODICAL TEST AND MICROPROJECT

Theory											
NBA COURSE CODE	COURSE	Processos Sheet Target Value of TH	Attainment	Attainment As Per Syllabus TH	Processos Sheet Target Value of PT	Attainment	Attainment As Per Syllabus PT	Processos Sheet Target Value of MicroPro	Attainment	Attainment As Per Syllabus Micro-project	OverAll Theory Attainment
Scheme Factor		0.7			0.3						
CO101	Mathematics - I (150)	26.0417	0	0	56.4104	1	0.3				0.3
CO102	Basic Electronics (200)	39.3939	0	0	60.3448276	2	0.6				0.6
CO103	Fundamental of Electrical Networks (200)	35.7895	0	0	54.3859649	1	0.3				0.3
CO104	Introduction to IT (100)		0	0		0	0				0
CO105	Environmental Science (50)		0	0		0	0				0
CO106	Communication Skills (25)		0	0		0	0				0
CO107	Professional Practices (25)		0	0		0	0				0
CO108	Sports and Yoga (25)		0	0		0	0				0
CO109	Experimental Learning (25)		0	0		0	0				0
Scheme Factor		0.7	0	0	0.3	0	0				
CO201	Mathematics - II (125)	9.6385542	0	0	49.0196078	0	0				0
CO202	Electronics Components & Sensors (100)		0			0					0
CO203	Electrical Devices & Machine (200)	44.047619	0	0	51.8867925	1	0.3				0.3
CO204	Electronics Devices & Circuits (200)	7.1428571	0	0	19.6581197	0	0				0
CO205	Introduction to Programming (100)		0	0		0	0				0
CO206	Engineering Graphics (25)		0	0		0	0				0
CO207	Electronics Workshop (50)		0	0		0	0				0
Scheme Factor		0.7			0.3						
CO301	Principles of Electronic Communication (200)	50	1	0.7	73.6842105	3	0.9				1.6
CO302	Digital Electronics (200)	9.5890411	0	0	73.9583333	3	0.9				0.9
CO303	Linear Integrated Circuit (200)	35.955056	0	0	75.7894737	3	0.9				0.9
CO304	Industrial Electronics (150)	61.956522	2	1.4	86.5979381	3	0.9				2.3
CO305	Electronics Measurement & Instrumentation (150)	63.736264	2	1.4	75.5319149	3	0.9				2.3
CO306	Python Programming (25)		0	0		0	0				0
CO307	Circuit Simulation & Circuit Building (50)		0	0		0	0				0
CO308	Essence of Indian Constitution (25)										
Scheme Factor		0.7			0.3						
CO401	Microcontroller (200)	36.781609	0	0	74.1935484	3	0.9				0.9
CO402	Digital Communication (200)	37.179487	0	0	43.0107527	0	0				0
CO403	Circuit Network (200)	53.571429	1	0.7	71.7391304	3	0.9				1.6
CO404	Power Electronics (200)	78.04878	3	2.1	79.1666667	3	0.9				3
CO405	Internet of Things - IOT (125)		0	0		0	0				0
CO406	Open Elective (Web Designing) & MOOC (100)		0	0		0	0				0
CO407	Python Programming in ML (125)		0	0		0	0				0
CO408	Social & Life Skills (50)		0	0		0					0
Scheme Factor		0.7			0.2			0.1			
CO501	Control Systems (175)	32.692308	0	0	52.7027027	1	0.2	100	3	0.3	0.5
CO502	Satellite & Mobile Communication (175)	68.493151	2	1.4	86.4864865	3	0.6	95.9459459	3	0.3	2.3
CO503	Microwave & Fiber Optic Communication (175)	58.823529	1	0.7	95.9459459	3	0.6	100	3	0.3	1.6
CO504	Data Communication & Computer Networking (175)	68.055556	2	0	70.2702703	3	0.6	100	3	0.3	0.9
CO505	Industrial Management (100)	77.464789	3	2.1	68.9189189	2	0.4	98.6486486	3	0.3	2.8
CO506	Capston Project (75)		0	0		0	0				0
CO601	Industrial Training (300)										

NBA COURSE CODE	Practical										Course Outcome (CO)
	Processos Sheet Target Value Practical	Attainment	Attainment level through Practical	Processos Sheet Target Value of TW	Attainment	Attainment level through Termwork	Processos Sheet Target Value of SLA	Attainment	Attainment level through SL	OverAll Practical Attainment	
CO101	NA			87.2881	3	0.75	84.7457627	3	0.75	3	
CO102	48.919	0	0	73.72	3	0.75	85.5932203	3	0.75	1.5	
CO103	90	3	1.5	86.44	3	0.75	90	3	0.75	3	
CO104	100	3	1.5	82.2034	3	0.75	82.2033898	3	0.75	3	
CO105	NA			86.4407	3	0.75	85.5932203	3	0.75	3	
CO106	NA			82.2034	3	0.75	NA			3	
CO107	NA				0	0	82.2033898	3	0.75	1.5	
CO108	NA			100	3	0.75	NA			3	
CO109	NA			82.2034	3	0.75	NA			3	
CO201	NA				0	0	97.752809	3	0.75	3	
CO202	93.82716049	3	1.5	85.22727273	3	0.75	69.3181818	2	0.5	2.75	
CO203	68.29268293	2	1	83.90804598	3	0.75	75.2808989	3	0.75	2.5	
CO204	72.97297297	3	1.5	71.59090909	3	0.75	48.8636364	0	0	2.25	
CO205	39.50617284	0	0	72.72727273	3	0.75	68.1818182	2	0.5	1.25	
CO206	NA			86.20689655	3	0.75				3	
CO207	NA			81.6091954	3	0.75	79.7752809	3	0.75	3	
									0		
									0		
CO301	80.85106383	3	1.5	97.93814433	3	0.75	98.9690722	3	0.75	3	
CO302	92.47311828	3	1.5	90.72164948	3	0.75	86.5979381	3	0.75	3	
CO303	95.74468085	3	1.5	98.96907216	3	0.75	98.9690722	3	0.75	3	
CO304				91.75257732	3	0.75	85.5670103	3	0.75	3	
CO305		0	0	90.72164948	3	0.75	96.9072165	3	0.75	0.75	
CO306		0	0	89.69072165	3	0.75	NA			3	
CO307				95.87628866	3	0.75	93.814433	3	0.75	3	
CO308	NA			NA			98.96907216	3	0.75	3	
CO401	98.8372093	3	1.5	97.75280899	3	0.75	62.5	2	0.5	2.75	
CO402	75.29411765	3	1.5	94.31818182	3	0.75	57.1428571	1	0.25	2.5	
CO403	70.93023256	3	1.5	93.25842697	3	0.75	56.6666667	1	0.25	2.5	
CO404	90.8045977	3	1.5	97.72727273	3	0.75	56.6666667	1	0.25	2.5	
CO405	69.04761905	2	1	92.04545455	3	0.75	28.5714286	0	0	1.75	
CO406		0	0	61.79775281	2	2				2	
CO407	81.81818182	3	1.5	63.63636364	2	0.5	81.25	3	0.75	2.75	
CO408		0	0		0	0	69.4736842	2	0.5	2	
CO501	94.59459459	3	1.5	98.64864865	3	0.75				2.99925	
CO502	100	3	1.5	100	3	0.75				2.99925	
CO503	100	3	1.5	100	3	0.75				2.99925	
CO504	100	3	1.5	100	3	0.75				2.99925	
CO505		0	0		0	0				0	
CO506	100	3	1.5	100	3	1.5				3	
CO601	100	3	4.5	100	3	4.5				2.997	

Attentments							
NBA COURSE CODE	OverAll Theory Attainment	OverAll Practical Attainment	Course Outcome (CO)	Course Outcome (CO) 80%	Course Outcome (CO) 20%	Attainment	Attainment
CO101	0.3	3	1.65	1.32	0.4	1.72	1.72
CO102	0.6	1.5	1.05	0.84	0.4	1.24	1.24
CO103	0.3	3	1.65	1.32	0.4	1.72	1.72
CO104	NA	3	3	2.4	0.4	2.8	2.8
CO105	NA	3	3	2.4	0.4	2.8	2.8
CO106	NA	3	3	2.4	0.4	2.8	2.8
CO107	NA	1.5	1.5	1.2	0.4	1.6	1.6
CO108	NA	3	3	2.4	0.4	2.8	2.8
CO109	NA	3	3	2.4	0.4	2.8	2.8
CO201	0	3	1.5	1.2	0.4	1.6	1.6
CO202	NA	2.75	2.75	2.2	0.4	2.6	2.6
CO203	0.3	2.5	1.4	1.12	0.4	1.52	1.52
CO204	0	2.25	1.125	0.9	0.4	1.3	1.3
CO205	NA	1.25	1.25	1	0.4	1.4	1.4
CO206	NA	3	3	2.4	0.4	2.8	2.8
CO207	NA	3	3	2.4	0.4	2.8	2.8
CO301	1.6	3	2.3	1.84	0.4	2.24	2.24
CO302	0.9	3	1.95	1.56	0.4	1.96	1.96
CO303	0.9	3	1.95	1.56	0.4	1.96	1.96
CO304	NA	3	3	2.4	0.4	2.8	2.8
CO305	NA	0.75	0.75	0.6	0.4	1	1
CO306	NA	3	3	2.4	0.4	2.8	2.8
CO307	NA	3	3	2.4	0.4	2.8	2.8
CO308	NA	3	3	2.4	0.4	2.8	2.8
CO401	0.9	2.75	1.825	1.46	0.4	1.86	1.86
CO402	0	2.5	1.25	1	0.4	1.4	1.4
CO403	1.6	2.5	2.05	1.64	0.4	2.04	2.04
CO404	3	2.5	2.75	2.2	0.4	2.6	2.6
CO405	NA	1.75	1.75	1.4	0.4	1.8	1.8
CO406	NA	2	2	1.6	0.4	2	2
CO407	NA	2.75	2.75	2.2	0.4	2.6	2.6
CO408	NA	2	2	1.6	0.4	2	2
CO501	0.5	2.99925	1.749625	1.3997	0.4	1.7997	1.7997
CO502	2.3	2.99925	2.649625	2.1197	0.4	2.5197	2.5197
CO503	1.6	2.99925	2.299625	1.8397	0.4	2.2397	2.2397
CO504	0.9	2.99925	1.949625	1.5597	0.4	1.9597	1.9597
CO505	2.8	0	1.4	1.12	0.4	1.52	1.52
CO506	NA	3	3	2.4	0.4	2.8	2.8
CO601	NA	2.997	2.997	2.3976	0.4	2.7976	2.7976

3.3 ATTAINMENT OF PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOME (40)

3.3.1 DESCRIBE ASSESSMENT TOOLS AND PROCESSES USED FOR ASSESSING THE ATTAINMENT OF EACH POS AND PSOS AS MENTIONED IN ANNEXURE 1(10)

Program Specific Outcomes is based on indicating the frequency with which these processes are carried out.

The Assessment tools are broadly classified in to two types.

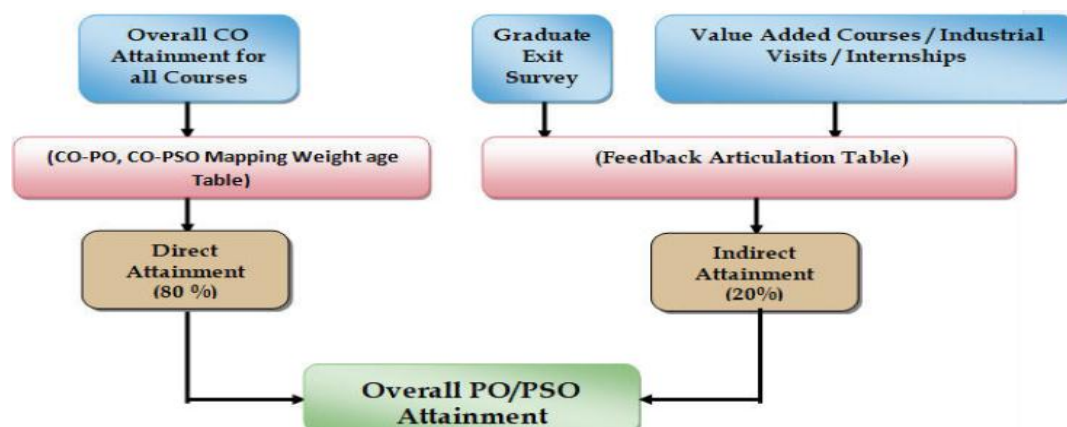
- i. Direct Assessment tools
- ii. Indirect Assessment tools

The assessment tools and process used for measuring the attainment of each of the program outcomes and program specific outcomes are depicted in the following table.

Assessment Tools	Assessment Frequency	Assessed by	Reviewed by
Direct Assessment Tools			
Periodical Tests	Twice in Semester	Course Faculty	HOD
Micro Project / SLA	Once in Semester	Course Faculty	HOD
Term Work	Once in Semester	Course Faculty	HOD
Laboratory Examination	Once in Semester	Course Faculty	HOD
Semester End Examination	Once in Semester	Institute, Exam Branch, Department Faculty	Institute, Exam Branch
Major Projects	In Third Year Fifth Semester	Major Projects Coordinator & Faculty	HOD
Indirect Assessment Tools			
Course End Survey	Once in Semester	Coordinator	HOD
Student Exit Survey	At the end of Diploma	Coordinators	HOD

HOD - Head of the Department

PO/PSO Attainment Process:



3.3.2 PROVIDE RESULTS OF EVALUATION OF EACH POS AND PSOS (30)

Subject Wise CO PO and PSO Attainment									
COURSE CODE	P01	P02	P03	P04	P05	P06	P07	PSO1	PSO2
CO101	1.84	1.23	0.61	0.61	0.00	0.67	0.67	0.67	0.00
CO102	1.20	0.80	0.00	0.80	0.40	0.67	0.67	1.33	0.00
CO103	1.84	0.61	0.61	1.23	0.61	0.33	0.33	0.67	0.00
CO104	2.00	0.67	0.00	0.67	0.00	0.33	0.00	0.00	1.33
CO105	0.00	0.00	0.00	1.60	1.60	0.00	0.00	0.00	0.00
CO106	0.00	2.80	0.00	0.00	1.87	3.00	3.00	0.00	0.00
CO107	0.00	0.00	0.00	0.40	0.40	0.00	0.00	0.00	0.00
CO108	0.00	0.93	0.00	0.00	1.87	0.33	0.33	0.00	0.00
CO109	0.00	0.00	0.00	2.80	2.80	0.00	0.00	0.00	0.00
CO201	1.60	1.07	0.00	0.00	0.53	0.67	0.00	0.67	0.00
CO202	1.60	1.60	1.60	1.60	0.80	0.67	1.33	1.33	0.00
CO203	1.60	0.53	0.00	1.07	0.53	0.33	0.67	0.67	0.00
CO204	0.80	0.27	0.53	0.27	0.27	0.33	0.00	0.67	0.00
CO205	0.80	0.27	0.00	0.27	0.00	0.33	0.00	0.00	0.53
CO206	0.40	0.13	0.27	0.13	0.13	0.33	0.00	0.33	0.13
CO207	1.20	0.40	0.00	0.40	0.40	0.33	0.00	0.67	0.00
CO301	2.64	2.64	1.76	2.64	2.64	1.00	2.00	3.00	1.76
CO302	1.72	1.72	0.00	0.57	0.57	1.00	2.00	3.00	1.72
CO303	1.57	0.79	1.57	0.79	0.79	0.67	0.33	1.00	1.57
CO304	2.79	1.86	0.00	0.93	0.00	0.67	0.67	1.33	2.79
CO305	1.87	0.93	1.87	0.93	0.93	0.33	0.33	0.67	1.87
CO306	1.60	0.53	0.00	0.53	0.53	0.67	0.67	0.33	1.60
CO307	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO401	1.30	0.65	0.00	1.96	0.65	0.67	0.33	0.33	1.96
CO402	2.24	2.24	2.24	0.75	0.75	2.00	2.00	2.00	0.75
CO403	2.64	2.64	0.00	1.76	0.88	1.00	2.00	1.00	0.00
CO404	2.64	2.64	2.64	0.88	0.88	2.00	2.00	2.00	0.88
CO405	2.79	2.79	0.00	0.93	0.93	2.00	2.00	1.00	2.79
CO406	2.80	1.87	1.87	1.87	1.87	1.33	1.33	0.67	1.87
CO407	2.79	2.79	0.00	0.93	0.93	2.00	2.00	1.00	2.79
CO408	0.13	0.27	0.40	0.13	0.13	0.67	0.67	0.67	0.00
C301	0.69	1.38	2.08	0.00	0.69	0.67	0.00	2.00	2.08
C302	2.16	2.16	0.00	2.16	1.44	0.00	0.00	3.00	1.44
C303	1.44	0.00	1.44	0.00	0.72	0.00	0.00	0.00	0.72
C304	0.93	0.93	0.00	1.87	2.80	0.33	0.33	1.00	1.87
C305	0.61	0.61	1.22	0.61	0.61	0.33	0.33	0.67	1.22
C306	0.00	0.00	0.00	0.00	2.80	0.00	0.00	0.00	1.87
C307	2.79	2.79	2.79	2.79	0.00	0.00	0.00	3.00	1.86

Subject Wise CO PO and PSO Attainment									
COURSE CODE	P01	P02	P03	P04	P05	P06	P07	PSO1	PSO2
C310	2.80	2.80	0.00	2.80	1.86	0.00	0.00	3.00	1.86
C311	0.93	1.86	1.86	1.86	1.86	1.33	1.33	1.33	1.86
C312	0.93	2.80	0.00	1.86	0.00	0.00	2.00	3.00	1.86
C314	0.00	1.60	0.00	1.60	1.07	0.00	2.00	3.00	1.07
C315	2.80	2.80	0.00	0.93	0.00	2.00	0.00	3.00	1.86
C316	2.80	1.87	1.87	1.87	0.00	0.67	0.00	2.00	2.80
C317	0.00	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.93
C318	0.00	0.93	0.93	0.93	1.87	0.67	0.67	0.33	0.93
Average	1.38	1.27	0.61	1.02	0.92	0.66	0.70	1.09	1.06
80% Direct Attainment	1.10	1.01	0.49	0.81	0.74	0.53	0.56	0.88	0.85
Indirect Attainment	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
20% Indirect Attainment	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Total Attainment	1.50	1.41	0.89	1.21	1.14	0.93	0.96	1.28	1.25

Subject Wise CO PO and PSO Mapping									
COURSE CODE	P01	P02	P03	P04	P05	P06	P07	PSO1	PSO2
CO101	3	2	1	1	0	1	1	1	0
CO102	3	2	2	2	1	1	1	2	0
CO103	3	1	1	2	1	1	1	2	0
CO104	3	1	2	1	0	1	0	0	2
CO105	0	0	0	3	3	3	3	0	0
CO106	0	3	0	0	2	3	3	0	0
CO107	0	0	0	3	3	3	3	0	0
CO108	0	1			2	1	1	0	0
CO109	0	0	0	3	3	3	3	0	0
CO201	3	2	0	0	1	1	0	1	0
CO202	2	2	2	2	1	1	2	2	0
CO203	3	1	1	2	1	1	2	2	0
CO204	3	1	2	1	1	1	0	2	0
CO205	3	1	2	1	0	1	0	0	2
CO206	3	1	2	1	1	1	0	1	1
CO207	3	1	2	1	1	1	0	2	0

Subject Wise CO PO and PSO Mapping									
COURSE CODE	P01	P02	P03	P04	P05	P06	P07	PSO1	PSO2
CO301	3	3	2	3	3	1	2	3	2
CO302	3	3	3	1	1	1	2	3	3
CO303	2	1	2	1	1	2	1	3	2
CO304	3	2	2	1		1	1	2	3
CO305	2	1	2	1	1	1	1	2	2
CO306	3	1	1	1	1	2	2	1	3
CO307									
CO401	2	1	3	3	1	2	1	1	3
CO402	3	3	3	1	1	2	2	2	1
CO403	3	3	2	2	1	1	2	1	0
CO404	3	3	3	1	1	2	2	2	1
CO405	3	3	3	1	1	2	2	1	3
CO406	3	2	2	2	2	2	2	1	2
CO407	3	3	3	1	1	2	2	1	3
CO408	1	2	3	1	1	1	1	1	0
C301	1	2	3	0	1	1	0	3	3
C302	3	3	3	3	2	0	0	3	2
C303	2	0	2	0	1	0	0	2	1
C304	1	1	1	2	3	1	1	3	2
C305	1	1	2	1	1	1	1	2	2
C306	0	0	0	0	3	3	3	2	2
C307	3	3	3	3	0	0	0	3	2
C310	3	3	3	3	2	0	0	3	2
C311	1	2	2	2	2	2	2	2	2
C312	1	3	3	2	0	0	2	3	2
C314	0	3	0	3	2	0	2	3	2
C315	3	3	3	1	0	2	0	3	2
C316	3	2	2	2	0	1	0	3	3
C317					2	2	2	2	1
C318	0	1	1	1	2	2	2	1	1

CRITERION 4	STUDENTS PERFORMANCE	200
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Intake Information:**Table 4.1**

Intake information		CAY	CAYm1	CAYm2	CAYm3	CAYm4	CAYm5
Academic Year	2025-2026	2024-2025	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
SPN series	25 series	24 series	23 series	22 series	21 series	20 series	19 series
Sanctioned Intake strength of programme (N)+ TFWS	120+6	120+6	120+6	120+6	140+6	140+6	140+6
Total Sanctioned Intake strength of programme (N)	126	126	126	126	146	146	146
Intake considered for calculation (N)	120	120	120	120	140	140	140
Total number of students admitted through the state level counseling (N1)	102	118	126	124	95	67	45
Admission cancelled	0	1	1	0	1	1	0
Total number of students admitted through the state level counseling (N1)- admission cancelled	102	117	125	124	94	66	45
Number of students admitted through Institute level quota (N2)	0	0	0	0	0	0	0
Number of students admitted through lateral entry (N3)	Admission in process	38	21	27	60	53	39
Total number of students admitted in the programme (N1+N2+N3)	102	155	146	151	154	119	84
Enrollment Ratio (N1+N2)/N	0.85	0.98	1.04	1.03	0.67	0.47	0.32
Average Enrollment Ratio	0.84	0.75					

Table 4.2

Year of entry	Academic Year	Total number of students admitted through state level counselling (N1)	Number of students admitted through Institute level quota (N2)	Number of students admitted through lateral entry (N3)	N1+N2+N3 (As defined above)		Number of students who have successfully graduated <u>WITHOUT BACKLOG</u> in any semester / year of study (Without backlog means no comptrment or failures in any sememster or year of study)		
CAY	2025-2026	102	0	0	102	25	✗	✗	✗
CAY m1	2024-2025	117	0	38	155	24	27	41	✗
CAY m2	2023-2024	125	0	21	146	23	35	30	✗
CAY m3	2022-2023	124	0	27	151	22	30	41	40
CAY m4	2021-2022	94	0	60	154	21	25	26	24
CAY m5	2020-2021	66	0	53	119	20	48	23	19
CAY m6	2019-2020	45	0	39	84	19	32	56	40

Table 4.3

Year of entry	Academic Year	Total number of students admitted through state level counselling (N1)	Number of students admitted through Institute level quota (N2)	Number of students admitted through lateral entry (N3)	N1+N2+N3 (As defined above)		Number of students who have successfully graduated (Students <u>with backlog</u> in stipultaed period of study)		
CAY	2025-2026	102	0	0	102	25	✗	✗	✗
CAY m1	2024-2025	117	0	38	155	24	71	✗	✗
CAY m2	2023-2024	125	0	21	146	23	71	59	✗
CAY m3	2022-2023	124	0	27	151	22	67	67	62

CAY m4	2021- 2022	94	0	60	154	21	57	63	51
CAY m5	2020- 2021	66	0	53	119	20	58	65	27
CAY m6	2019- 2020	45	0	39	84	19	39	73	47

4.1 ENROLMENT RATIO (20)

	N (From Table 4.1)	N1 + N2 (From Table 4.1)	Enrollment Ratio [(N1 + N2 / N)*100]
2025-26	120	102	85.00
2024-25	120	118	98.33
2023-24	120	126	105.00

Average [(ER1 + ER2 + ER3) / 3] : 96.11

4.2 SUCCESS RATE IN THE STIPULATED PERIOD OF THE PROGRAM (60)**4.2.1 SUCCESS RATE WITHOUT BACKLOGS IN ANY YEAR OF STUDY (40)**

Item	Last year Graduate (LYG)	Last year Graduate (LYG)	Last year Graduate (LYG) minus 1 batch	Last year Graduate (LYG) minus 2 batch
Academic Year	2022-2023	2021-2022	2020-2021	2019-2020
Year of Passing	Summer 2025 (22 series)	Summer 2024 (21 series)	Summer 2023 (20 series)	Summer 2022 (19 series)
Total number of students (admitted through state level counselling (N1) + admitted through Institute level quota (N2) + admitted through lateral entry (N3)	151	154	119	84
Number of students who have passed without backlogs in the stipulated period	40	24	19	40
Success Index (SI)	0.26	0.16	0.16	0.48
Average SI	0.19	0.26		
Success rate without backlogs in any year of study (=Average SI *40)	7.74	10.56		

4.2.2 SUCESS RATE IN STIPULATED PERIOD (20)

Item	Last year Graduate (LYG)	Last year Graduate (LYG)	Last year Graduate (LYG) minus 1 batch	Last year Graduate (LYG) minus 2 batch
Academic Year	2022-2023	2021-2022	2020-2021	2019-2020
Year of Passing	Summer 2025 (22 series)	Summer 2024 (21 series)	Summer 2023 (20 series)	Summer 2022 (19 series)
Total number of students (admitted through state level counselling (N1) + admitted through Institute level quota (N2) + admitted through lateral entry (N3)	151	154	119	84
Number of students who have passed with backlogs in the stipulated period	62	51	27	47
Success Index (SI)	0.41	0.33	0.23	0.56
Average SI	0.32	0.37		
Success rate without backlogs in any year of study (=Average SI *20)	6.46	7.45		

4.3 ACADEMIC PERFORMANCE IN FIRST YEAR (25)

Academic Performance	CAYm1	CAYm1	CAYm2	CAYm3
Academic Year	2024-2025	2023-2024	2022-2023	2021-2022
SPN Series	24 series	23 series	22 series	21 series
Mean CGPA or Mean Percentage of all successful students (X)	6.69	6.73	6.35	6.54
Total number of successful students (Y)	71	71	67	57
Total number of students appeared in the examination (Z)	117.00	125.00	124.00	94.00
API = $X*(Y/Z)$	4.06	3.82	3.43	3.97
Average API	3.77	3.74		
Academic Performance level = $2.5*Average\ API$	9.43	9.35		

4.4 ACADEMIC PERFORMANCE IN SECOND YEAR (20)

Academic Performance	CAYm2	CAYm2	CAYm3	CAYm4
Academic Year	2023-2024	2022-2023	2021-2022	2020-2021
SPN Series	23 series	22 series	21 series	20 series
Mean CGPA or Mean Percentage of all successful students (X)	7.35	7.39	6.57	6.61
Total number of successful students (Y)	59	67	63	65
Total number of students appeared in the examination (Z)	92.00	94.00	117.00	111.00
$API = X*(Y/Z)$	4.71	5.27	3.54	3.87
Average API	4.51	4.23		
Academic Performance level = $2.0*Average\ API$	9.01	8.45		

4.5 ACADEMIC PERFORMANCE IN FINAL YEAR (15)

Academic Performance	Last year Graduate (LYG)	Last year Graduate (LYG)	Last year Graduate (LYG) minus 1 batch	Last year Graduate (LYG) minus 2 batch
Academic Year	2022-2023	2021-2022	2020-2021	2019-2020
SPN Series	Summer 2025 (22 series)	Summer 2024 (21 series)	Summer 2023 (20 series)	Summer 2022 (19 series)
Mean CGPA or Mean Percentage of all successful students (X)	8.4	7.63	7.46	7.53
Total number of successful students (Y)	62	51	27	47
Total number of students appeared in the examination (Z)	67.00	63.00	65.00	73.00
$API = X*(Y/Z)$	7.77	6.18	3.10	4.85
Average API	5.68	4.71		
Academic Performance level = $1.5*Average\ API$	8.52	7.06		

4.7 PROFESSIONAL ACTIVITIES (20)

4.7.1 PROFESSIONAL SOCIETIES/ STUDENT CHAPTERS AND ORGANIZING TECHNICAL EVENTS (10)

A. AVAILABILITY OF PROFESSIONAL SOCIETIES/CHAPTERS & RELEVANT ACTIVITIES (5)

Professional Body Activities – IETE Student's Chapter ISF, ISTE Workshop, Techfest, carrier guidance activity.



IETE International Conference



IETE & ISTE SPONSORED TECHNICAL EVENTS

B. NUMBER, QUALITY OF ENGINEERING EVENTS (5)

NEXTECH is a State Level Technical Festival organised by the Institute every year. The events include

1. Project Competition,
2. Circuit Building Competition,
3. 3D Model Poster Competition,
4. Coding in 'C' and Python,
5. Quiz and
6. Technical Paper presentation competition.

IETE Oscillations is another technical event organised once every year under IETE banner specifically to encourage and kindle interest in first year students and motivate them to explore technical hands on skills beyond syllabus.

NEXTECH - 2026

STATE LEVEL TECHNICAL FESTIVAL
Organised by
ST. XAVIER'S TECHNICAL INSTITUTE
(AUTONOMOUS GOVT. AIDED MINORITY INSTITUTE)
in association with
IETE & ISTE Mumbai

Mahim Causeway, Mahim, Mumbai - 400 016 • Email : office@xaviertech.ac.in • Website : www.xaviertech.ac.in

Invitation for entries from Engineering Diploma Students

- Project Competition :** There will be two categories- **Category 1 - Electronics | Telecommunication | Electrical | AI-ML**
Category 2 - IT | Computer | AI-ML
- Date & Day :** **Tuesday 24th March, 2026**
Participants : Diploma Students (In-house and External Candidates)
- Circuit Building Competition**
Date & Day : **Tuesday 24th March, 2026**
Participants : Diploma Students (In-house and External Candidates)
Individual participants have to build specified circuits based on Op-amps and Timers on breadboard and implement the same in the stipulated time. Components, circuit diagrams, breadboards and equipment for testing will be provided.
- 3D Model Poster Competition:** Electronics | Telecommunication | Electrical | IT | Computer | AI-ML
Date & Day : **Tuesday 24th March, 2026**
Participants : All 1st year Diploma Students (In-house and External candidates)
Topics : Any Technical Topics related to Electronics | Telecommunication | Electrical IT | Computer | AI-ML etc.
- Technical Paper Presentation :**
Date & Day : **Wednesday 25th March, 2026**
Participants : All 2nd year Diploma Students (In-house and External candidates)
There will be two categories- **Category -1**
Category 1 - Electronics | Telecom | Electrical | AI-ML
1) Applications of AI/ML in electronics
2) Electric Vehicles (EV)
3) 5G, 6G Mobile Technologies
4) Cognitive Radio
5) Smart Antennas
6) IoT in Electronics
7) Drone Technology
Category -2
Category 2 - IT | Computer | AI-ML
1) Cyber Security
2) Cloud Computing
3) Block Chain Technology
4) IoT & Large databases
4) Quantum Computing
- Coding in 'C' and Python :**
Date & Day : **Wednesday 25th March, 2026**
Participants : Only 2nd year & 1st Year DETE, OCE IN-HOUSE Students
Individual participants are required to write and successfully execute the code in C/PYTHON for the given problem within stipulated time.
- Quiz :**
Date & Day : **Wednesday 25th March, 2026**
Participants : Only 2nd year & 1st Year DETE, OCE IN-HOUSE Students. 2 participants per team
- RULES AND REGULATIONS FOR TECHNICAL PAPER AND PROJECT :**
Synopsis Formatting:
Paper size A-4, Heading Font Size 16pts, Sub Heading Font Size 14pts, Text Font Size 12pts, Line Spacing 1.5, Arial Font, Margins: Left & Right 1.25", Top and Bottom 1".

Contact Coordinators

For Project : pr@xaviertech.ac.in
Mr. Sanjay Borkar 9887228279
Mr. Rakesh Saraj 9887379297
Mr. Karthi Devisandra 9136873451
Mr. Shankar Patnaware 9887624717
For Circuit Building : cb@xaviertech.ac.in
Mr. Vinay Nagarkar 9868886689
Mrs. Sushli Gaothade 7710062923
Mr. Anushree Samant 9591222270
Poster Competition : pm@xaviertech.ac.in
Mr. Anil Gurav 8108510758
Mr. Abhijit Patil 8779824775
Mr. Darshan Chavan 8867620680
Mrs. Anvi Chougale 9863675302

Technical Paper Presentation :
Dr. Mahesh Munde 8850036455
Mrs. Sakshi More 8237747035
Mrs. Darshana Jadhav 9819757666
For Coding & Quiz Competition : c@xaviertech.ac.in
Mr. R. V. Gheware 9870105203
Mr. Arjun Singh 8104463383
Mr. Avadesh Kumar 9702956164

PRIZES

Project (Each Category)
1st : Rs. 3,000
2nd : Rs. 2,000

Circuit Building
1st : Rs. 2,000
2nd : Rs. 1,000

Poster
1st : Rs. 2,000
2nd : Rs. 1,000

TPP (Each Category)
1st : Rs. 2,000
2nd : Rs. 1,000

CODING
1st : Rs. 2,000
2nd : Rs. 1,000

QUIZ
1st : Rs. 2,000
2nd : Rs. 1,000

Important Dates
Last Date : Project / Paper Synopsis (Soft Copy) | Registration for Circuit Building (All submissions with registration 17th March, 2026.
Intimation and acknowledgement for all events through email - 18th March, 2026.

For Registration Form 
For Payment Scan QR Code 

PATRONS
Fr. Anil Pereira, S.J., Provincial
Fr. Dr. John Rose, S.J., Director, XTECH AND XIE
Patron : Dr. S. B. Ghungard, Principal
Convenor : Dr. Vijay Rathod (HOD)
Co-Convenor : Mr. Arjun Singh

NEXTECH - 2025

National Level Technical Festival
ORGANISED BY
ST. XAVIER'S TECHNICAL INSTITUTE
(AUTONOMOUS GOVT. AIDED MINORITY INSTITUTE)

Mahim Causeway, Mahim, Mumbai - 400 016.
Phone : 022 24480358, 24441981, 24454558, 2448977 • Fax : 022 24445482
Email : office@xaviertech.ac.in Website : www.xaviertech.ac.in

20th & 21st March, 2025

Cash Prizes Rs./-

Call for entries from Engineering Diploma Students

Project Exhibition : Electronics / Bio-Medical / Instrumentation / Electrical & IT / Computer : **Thursday, 20th March, 2025**
Poster Competition : Theme, "Swachh Bharat" / "Communication Skills" / "Professional Practices" : **Thursday, 20th March, 2025**
Participants have to draw / colour / sketch / paint / prepare / present their poster on "half imperial" size drawing sheets.

Circuit building and implementation on breadboard: **Thursday, 20th March, 2025**
Individual participants have to build specified circuits based on Op-amps and Timers on breadboard and implement the same in the stipulated time. Components, circuit diagrams, breadboards and equipment for testing will be provided.

Technical Paper Presentation: There will be 2 categories as below: **Friday, 21st March, 2025**

Electronics / Communication :

- 1) Advanced Encoding & Decoding Technique
- 2) Remote Sensing, Networking
- 3) 5G, 6G
- 4) Mobile navigation
- 5) Wireless
- 6) Cognitive Radio
- 7) Internet of Things

IT / Computer

- 1) Cloud computing
- 2) Artificial Intelligence
- 3) Machine Learning
- 4) Wireless Networking techniques
- 5) Network security
- 6) IoT & Large Databases
- 7) Deep Learning

RULES AND REGULATIONS :
Synopsis Formatting :
Paper size A-4, Heading Font Size 16pts, Sub Heading Font Size 14pts, Text Font Size 12pts, Line Spacing 1.5, Arial Font, Margins: Left & Right 1.25", Top and Bottom 1".

A) For Project

- The Project Synopsis should be 3-5 pages.
- Submit list of required supporting equipments one week before exhibition.
- Common equipped with your own required software and driver software.
- Maximum 4 Participants / Project Group.

B) For TPP

- Maximum two authors per paper for Technical Paper Presentation.
- The paper synopsis should 3-6 pages.
- 10 Minutes will be allotted per paper.
- Power Point Presentation backup must be accompanied by each author.

Important Dates :
1) Last Date : Project / Paper Synopsis (Hard Copy) | Registration for LAN Gaming / Circuit Building / all submissions with registration - **14th March, 2025**
2) Intimation and acknowledgement for selected project / technical paper and concerning LAN gaming and Circuit Building through email - **16th March, 2025**

Fees details and Registration : Soft copy should be emailed to nextech2020@xaviertech.com on or before submission date, stating the event name in which you are participating in the "subject" field of the email. One hard copy of all documents along with fees should be submitted. Demand Draft of Rs. 400/- per event, per student (including Registration, Lunch & Tea) should be drawn in favour of ST. XAVIER'S TECHNICAL INSTITUTE, payable at MUMBAI.

CO-ORDINATORS : Project : Mr. Mahesh Munde (7710062923), Poster Competition : Mrs. Sushli Gaothade (7710062923), Mr. S.N. Jeyare (9834472964), Technical Paper Presentation : Mr. S. Borkar (9887228279), Mr. Rakesh Saraj, Circuit Building : Mr. Stevenson D'Souza (982091507), Circuit Simulation : Mr. R. V. Gheware (7710062941), PCB Design : Mr. Anish Patil (986960257), Essay Competition : Mr. Chetan De Souza (917876343), EXTPSPR Quiz & Debate : Ms. Deepa Mary (982032107), Outgoing Convention : Mr. Vinay Kar Nagarkar (9868886689), LAN Gaming : Mrs. Santhosh Datta (770999616) & M. K. V. Kanath (NFS), Food & Beverage : Mr. Ramji Chougale (982090277), Mr. Harish Chougale (983311899).

PRIZES : Project : First Rs. 3,000/-, Second Rs. 3,000/-, Poster Presentation : First Rs. 2,000/-, Second Rs. 1,000/-, T.P.P. : First Rs. 2,000/- (2) = Rs. 4,000/-, Second Rs. 2,000/- (2) = Rs. 4,000/-, Circuit Building : Rs. 2,000/-, Circuit Simulation : Rs. 2,000/-, PCB Design : Rs. 2,000/-, Essay Competition : Rs. 2,000/-, EXTPSPR Quiz : Rs. 1,500/-, DEBATE : Rs. 1,500/-, Outgoing : Rs. 2,000/-, LAN Gaming NFS : Rs. 1,500/-, LAN Gaming CS : Rs. 1,500/-.

PATRONS
Fr. Dr. Arun de Souza, S.J., Provincial, Mumbai Jesuits
Fr. Dr. John Rose, S.J., Director, XTECH AND XIE

CHAIRPERSON - Dr. S. B. Ghungard, Principal
CONVENOR - Dr. Vijay Rathod, HOD

SPONSORED BY : 1) I.E.T.E 2) I.S.T.E.

4.7.2 PUBLICATION OF TECHNICAL MAGAZINES, NEWSLETTERS, ETC. (5)

 Chief Editor Dr. S. B. Ghungrad / Dr. V. R. Rathod Editorial committee Mr. Abhijit A. Patil / Mr. Rakeshkumar Saroj	 
Overview OCTOBER 2025 - MARCH 2026 St. Xavier's Technical Institute actively engaged students and faculty in 2025–26 through sports, workshops, industrial visits, and community service. Highlights included the Annual Sports Event, NSS visit to Palghar, AICTE VAANI seminar on quantum technologies, women's wellness and hygiene workshops, Doordarshan Kendra industrial visit, and faculty industrial training, promoting learning, fitness, and social responsibility. Annual Sports Event 2026 Celebrated with Great Enthusiasm The Annual Sports Event was successfully organized at St. Xavier's Technical Institute, Mahim from 8th to 14th January 2026. Around 180 students actively participated in various indoor and outdoor sports activities.	The event featured games such as athletics, badminton, cricket, football, dodgeball, and long jump. Students demonstrated excellent teamwork, sportsmanship, and enthusiasm throughout the competitions. Cricket and football were among the major highlights of the event. Winners were declared in both team and individual events, showcasing students' talent and competitive spirit. The event promoted physical fitness, discipline, and unity, making it a memorable experience for everyone. Chhatrapati Sambhaji Nagar, January 20, 2026: CSMSS College of Engineering, Aurangabad organized a two-day AICTE VAANI seminar on "Quantum Technologies: A Roadmap for the Future" on January 19–20, 2026. The seminar aimed to create awareness about emerging quantum technologies among students and academicians.
 Dr. Vijay R. Rathod, Professor and HoD (EXTC), St. Xavier's Technical Institute, Mumbai, delivered an expert session on "Introduction to Quantum Technology". Other speakers included Dr. Ganesh Patil from VNIT Nagpur and Mr. Mithilesh Gaikwad from C-DAC Pune. The sessions highlighted the significance of quantum computing and its future applications. The program concluded with felicitation of the speakers, making it a valuable academic and knowledge-sharing event.	rooms, and broadcasting systems. They gained hands-on understanding of camera operations, lighting techniques, and signal transmission. The visit was guided by faculty members including Mr. Vinaykumar Nagalikar, Mrs. Sanchita Datta, Mr. Abhijit Patil, Mr. Arjun Singh, Mrs. Avani Chogule, and Mr. Karthi Devendra. The experience provided valuable practical knowledge and exposure to real-world media and communication technologies.
Industrial Visit to Doordarshan Kendra 	NSS Visit Conducted Successfully  An NSS visit was organized by St. Xavier's Technical Institute, Mahim, Mumbai from 4th to 8th March 2026 at Naik Foundation, Pargaon, Palghar. Students and staff actively participated in activities such as cleaning, cooking, and managing daily arrangements. The programme was coordinated by Mr. Shekhar N. Jirapure, along with faculty members Mr. Abhijit A. Patil, Mrs. Sanchita Datta, Mrs. Surbhi Gaoshinde, Mr. Vinay Nagalikar, Mrs. Anushree Samant, Mrs. Darshana Jadhav, Mr. Shankar Pansare, Mrs. Helen Cerejo, and Mrs. Sumathi. The visit promoted teamwork, social responsibility, and community engagement among students, making it a meaningful and enriching experience.
Mumbai: Students of St. Xavier's Technical Institute, Mahim, visited Doordarshan Kendra, Worli, as part of their industrial exposure program during the academic year 2025–26. The visit was conducted on 21st August 2025 for first-year DETE students and on 30th January 2026 for first-year DCE students. During the visit, students explored television studios, control	Workshop on 'From Stress to Strength' Mumbai: St. Xavier's Technical Institute, Mahim, organized a workshop titled "From Stress to Strength: Simple Energy Tools for the Modern Woman" as part of International Women's Day celebrations on 9th March 2026.




The session was conducted by Mrs. Manisha Bangera, a Pranik Healer and life coach. The workshop focused on helping women manage stress through practical techniques such as mindfulness, breathing exercises, and energy balancing. The session included audio-visual presentations on chakras and their role in healing, followed by a guided meditation session that provided participants with a hands-on experience of stress relief techniques. The workshop proved highly effective in promoting mental well-being and emotional resilience, empowering women to transform stress into strength and lead a more balanced and fulfilling life.

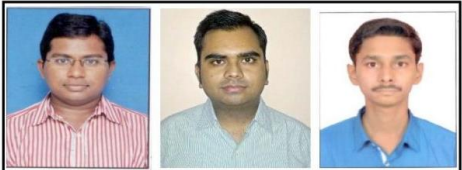
Workshop on Safety and Hygiene for Women and Girls

Mumbai: St. Xavier's Technical Institute, Mahim, organized a workshop on "Safety and Hygiene Practices for Women and Girls" as part of International Women's Day celebrations.



The session was held on 13th February 2026 in Lecture Hall LR-22 and was attended by around 50 participants, including girl students and lady staff. The program began with an introduction by the Girls Welfare Committee, followed by an informative session on women's health and hygiene. Educational videos on hygiene practices and menstrual health were screened and explained in detail by Mrs. Helen Cerejo. Dr. Mrs. Janani Natarajan emphasized the importance of personal hygiene and preventive healthcare. The workshop successfully created awareness about safety, sanitation, and menstrual hygiene, empowering participants with essential knowledge for a healthier lifestyle.

Faculty Complete Industrial Training Program



Mumbai: Mr. Vinaykumar Naglikar, Mr. Rakeshkumar Saroj and Mr. Abhijit Ajitkumar Patil have successfully completed an Industrial Training Program.

4.6 PLACEMENT AND HIGHER STUDIES (40)

Placement and Higher Studies	Last year Graduate (LYG)	Last year Graduate (LYG)	Last year Graduate (LYG) minus 1 batch	Last year Graduate (LYG) minus 2 batch
Academic Year	2022-2023	2021-2022	2020-2021	2019-2020
SPN Series	Summer 2025 (22 series)	Summer 2024 (21 series)	Summer 2023 (20 series)	Summer 2022 (19 series)
Total No of Final Year Students(N)	61	48	27	66
No of students placed in the companies or government sector(X)	8	5	4	21
No of students admitted to higher studies (Y)	47	40	22	44
No. of students turned entrepreneur in the respective field of engineering/technology (Z)	0	0	1	1
Placement Index $[(1.25 * X) + Y + Z] / N$:	0.9	0.978		
Assessment [40 * Average Placement] :	36	39.12		

PROVIDE THE PLACEMENT DATA IN THE BELOW MENTIONED FORMAT WITH THE NAME OF THE PROGRAM AND THE ASSESSMENT YEAR (SEPARATELY FOR CAYM1, CAYM2 AND CAYM3):

Program Name : Electronics and Telecommunications Engineering

2024-25(CAY)

Student Name	Enrollment no.	Employee Name
Mr. Tarun Kunchikorve	2103043	iAssisst Health Private LTD
Mr. Piyus Keswani	2103036	iAssisst Health Private LTD
Mr. Nunes Lance Nerus Loana	2203153	Microsoft Computers Pvt. Ltd.
Mr. Mohammad Ibrahim Mohd. Israr Farooqui	2203163	STECH IT Service
Mr. Qureshi Anas Siraj	2203164	Werone Enterprises
Mr. Prathmesh Nagarkar	2203156	Procomm
Mr. Rohit Gupta	2203162	Prelude Netcomms

2023-24(CAYm1)

Student Name	Enrollment no.	Employee Name
Mr. Pise Pawan Prakash Sunita	2103062	VFS Global
Mr. Alvares Hayden Francis Corina	2103151	Alpha Techno Systems
Mr. Dhanavade Pranay Rajesh Reshma	2103153	Celbi Nas Company, In Airport
Mr. Prajapati Kisan Saheblal Rekha	2103160	Metal Power Analytical Pvt Ltd
Mr. Salvi Shreyash Kishor Kavita	2103204	OTIS

2022-23(CAYm2)

Student Name	Enrollment no.	Employee Name
Mr. Kawthankar Harsh Devendra	2003021	Family Business- Travel Firm
Ms. Shivgan Shepali Shripat	2003046	Runwal Group
Mr. Dike Ketan Kamalakar	2003161	Advance Industrial Micro Systems Pvt Ltd Goregaon
Mr. Pal Shivam Dinesh	2003187	Vishay Communication
Mr. Shirke Hrithik Ramesh S	2003199	Schindler House Powai

2021-22(CAYm3)

Student Name	Enrollment no.	Employee Name
Mr. Khandekar Nisarg Santosh	1903001	IIT Sameer
Mr. Farooqui Mohd Affan	1903008	Medi Soft Systems
Ms. Gharat Hrutika Kiran	1903009	Micropoint Computers Pvt Ltd.
Mr. Gondane Rahul Rajhans	1903010	Micropoint Computers Pvt Ltd.
Mr. Gupta Sunil Rajesh Meera	1903011	Medi Soft Systems
Mr. Koli Siddhesh Somnath	1903013	Micropoint Computers Pvt Ltd.
Mr. Shaikh Arsalan Dawood	1903024	Micropoint Computers Pvt Ltd.
Mr. Worlikar Bleson Thomas	1903032	Micropoint Computers Pvt Ltd.
Mr. Yadav Om Mukund Rupali	1903034	Micropoint Computers Pvt Ltd.
Mr. Gopale Rohit Rajesh	1903155	Electronic Corporation Of India Ltd. (ECIL)
Ms. Jadhav Neha Pradeep	1903156	Terabytes India Pvt Ltd
Mr. Prathamesh More	1903163	Tata Communications
Mr. Rawool Navin Narayan	1903165	Pla Electro Appliances Ltd
Mr. Yadav Amarnath Dhurai	1903173	Micropoint Computers Pvt Ltd.
Mr. Bade Rohit Rajesh Rashmi	1903175	Aetos Digital Innovations Pvt Ltd
Mr. Nilesh Bhosale	1903176	Process And Control Systems
Mr. Rohan Divekar	1903178	Accelus Robotics Pvt Ltd
Ms. Dalvi Gauri Chandrakant	1903187	Nelco Ltd
Mr. Mohit Chowdhary	1903186	Randstad
Mr. Swapnil Shedge	1403186	Essae-Teraoka Pvt. Ltd
Mr. Hitesh Mhatre	1403190	Railiks Enterprises

CRITERION 5	FACULTY INFORMATION AND CONTRIBUTIONS	150
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For Academic Year 2025-2026

Sr. No.	Name of the faculty member	Qualification			Designation	Date of Joining Institute	Distribution of teaching load (% age)						Academic Research Since joining			Years of Experience
		Degree	University	Year of graduation.			1 st ODD SEM	1 st EVEN SEM	2 nd ODD SEM	2 nd EVEN SEM	3 rd ODD SEM	3 rd EVEN SEM	Received PhD. During the assessment years	PhD Guidance	Research Paper Publications	
1	Dr. S. B. Ghungrad	PhD(Elect.) MBA(HR) ME(BME) ME(Instr.) BE(INST.)	Mumbai Anna Univ. Mumbai Marathwada Marathwada	2008 2010 2002 1995 1990	Principal	09/05/2007	0	0	0	100	100	--	2008		10	18
2	Dr. V. R. Rathod	PhD(DIP& NDT) M Tech (EXTC) BE (EXTC)	IIT Roorkee Dr.B. A. T.U, Lonere Amravati	2012 2004 1999	Head of Department	01/03/2000	50	0	50	50	50	--	2012	07	17	25
3	Mr. S. N. Jirapure	B.E(ETRX)	Amravati	1989	Lecturer (Sel. Gr.)	13/01/1992	0	0	100	0	0	--				33

4	Mr. R. V. Gheware	M.E (EXTC) BE(ETRX)	Dr. B. A. T.U Marathwada	2012 1992	Lecturer (Sel. Gr.)	03/07/ 1995	0	0	100	0	100	--			1	30
5	Dr. J. Natarajan	PhD(Elect.) M.E (EXTC) BE(ECE)	NIT Trichy Mumbai Bharathidasan	2023 2010 1996	Lecturer (Sel. Gr.)	01/07/ 1999	100	0	0	0	100	--	2023		6	26
6	Mrs. S. A. Datta	M.Sc(Math) Bed	IIT Kharagpur Mumbai	1992 1995	Lecturer (Sel. Gr.)	01/07/ 1999	100	50	50	50	0	--				26
7	Mr. A. C. Gurav	B.E (EXTC)	Shivaji (Kolhapur)	2002	Lecturer (Sr. Scale)	02/03/ 2004	100	70	0	0	10	--			1	21
8	Mr. S. R. Borkar	M.E(EXTC) B.E(ELECT.)	Mumbai Marathwada	2017 1992	Lecturer (Sr. Scale)	19/06/ 2006	100	70	0	0	10	--			1	19
9	Mr. M. M. Munde	Ph.D (EXTC) M..Tech (EXTC) B.E(EXTC)	Dr. B.A.T.U, Lonere Dr. B.A.T.U, Lonere Dr. B.A.M.U, Aurangabad	2021 2008 2001	Lecturer (Sr. Scale)	27/06/ 2006	100	0	0	0	100	--	17/07/ 2021		12	19
10	Mr. V. Nagalikar	M.E(EXTC) B.E(ETRX)	Mumbai RTMNU	2008 2017	Lecturer (Sr. Scale)	11/08/ 2009	0	0	100	100	9.1	--			1	16
11	Mrs. S. A. Gaoshinde	B.E(EXTC)	RGPV Bhopal	2008	Lecturer	01/10/ 2010	100	0	100	100	0	--				15
12	Mr. R. R. Saroj	M.E(EXTC) BE(EXTC)	Mumbai Mumbai	2015 2010	Lecturer	20/04/ 2015	100	0	0	100	100	--			1	10
13	Mr. A. A. Patil	M.E(ETRX) BE(ETRX)	Mumbai Mumbai	2014 2011	Lecturer	29/04/ 2015	0	0	100	40	100	--			1	10

For Academic Year 2024-2025

Sr. No.	Name of the faculty member	Qualification			Designation	Date of Joining Institute	Distribution of teaching load (% age)						Academic Research Since joining			Years of experience
		Degree	University	Year of graduation.			1 st ODD SEM	1 st EVEN SEM	2 nd ODD SEM	2 nd EVEN SEM	3 rd ODD SEM	3 rd EVEN SEM	Received PhD. During the assessment years	PhD Guidance	Research Paper Publications	
1	Dr. S. B. Ghungrad	PhD(Elect.) MBA(HR) ME(BME) ME(Instr.) BE(INST.)	Mumbai Anna Univer. Mumbai Marathwada Marathwada	2008 2010 2002 1995 1990	Principal	09/05/2007	0	0	50	0	50	100	2008		10	17
2	Dr. V. R. Rathod	PhD(DIP& NDT) M Tech (EXTC) BE (EXTC)	IIT Roorkee Dr.B. A. T.U, Lonere Amravati	2012 2004 1999	Head of Department	01/03/2000	16.7	0	0	0	83.3	100	2012	07	17	24
3	Mr. K. H. Kamath	M.E (ETRX) BE(ECE)	MUMBAI Mangalore	2009 1986	Lecturer (Sel. Gr.)	03/12/1986	0	0	0	0	100	100				38
4	Mr. S. N. Jirapure	B.E(ETRX)	Amravati	1989	Lecturer (Sel. Gr.)	13/01/1992	0	0	90	90	10	10				32
5	Mr. R. V. Gheware	M.E (EXTC) BE(ETRX)	Dr. B.A. T.U. Marathwada	2012 1992	Lecturer (Sel. Gr.)	03/07/1995	0	0	90	14.3	10	85.7			1	29

6	Dr. J. Natarajan	PhD(Elect.) M.E (EXTC) BE(ECE)	NIT Trichy Mumbai Bharathidasan	2010 1996	Lecturer (Sel. Gr.)	01/07 /1999	0	0	0	0	100	100	2023		6	25
7	Mrs. S. A. Datta	M.Sc(Maths) BEd	IIT kharagpur Mumbai	1992 1995	Lecturer (Sel. Gr.)	01/07 /1999	50	50	50	50	0	0				25
8	Mr. A. C. Gurav	B.E (EXTC)	Shivaji (Kolhapur)	2002	Lecturer (Sr. Scale)	02/03 /2004	90	70	0	0	10	30			1	20
9	Mr. S. R. Borkar	M.E(EXTC) B.E(ELECT.)	Mumbai Marathwada	2017 1992	Lecturer (Sr. Scale)	19/6/ 2006	90	70	0	0	10	30			1	18
10	Mr. M. M. Munde	Ph.D (EXTC) M..Tech (EXTC) B.E(EXTC)	Dr.B. A. T.U, Lonere Dr.B. A. T.U, Lonere Dr. B.A.M.U, Aurangabad	2021 2008 2001	Lecturer (Sr. Scale)	27/06 /2006	0	0	0	0	100	100	17/07/ 2021		12	18
11	Mr. V. Nagalikar	M.E(EXTC) B.E(ETRX)	Mumbai RTMNU	2008 2017	Lecturer (Sr. Scale)	11/08 /2009	0	0	90.9	90	9.1	10			1	15
12	Mrs. S. A. Gaoshinde	B.E(EXTC)	RGPV Bhopal	2008	Lecturer	01/10 /2010	60	0	30	90	10	10				14
13	Mr. R. R. Saroj	M.E(EXTC) BE(EXTC)	Mumbai	2015 2010	Lecturer	20/04 /2015	18.2	30	73.7	60	9.1	10			1	9
14	Mr. A. A. Patil	M.E(ETRX) BE(ETRX)	Mumbai Mumbai	2014 2011	Lecturer	29/04 /2015	18.2	0	18.2	40	63.6	60			1	9

For Academic Year 2023-2024

Sr. No.	Name of the faculty member	Qualification			Designation	Date of Joining Institute	Distribution of teaching load (% age)						Academic Research since joining			Years of experience
		Degree	University	Year of graduation.			1 st ODD SEM	1 st EVEN SEM	2 nd ODD SEM	2 nd EVEN SEM	3 rd ODD SEM	3 rd EVEN SEM	Received PhD. During the assessment years	PhD Guidance	Research Paper Publications	
1	Dr. S. B. Ghungrad	PhD(Elect.) MBA(HR) ME(BME) ME(Instr.) BE(INST.)	Mumbai Anna Univer. Mumbai Marathwada Marathwada	2008 2010 2002 1995 1990	Principal	09/05/2007	0	0	100	100	0	0	2008		10	16
2	Dr. V. R. Rathod	PhD(DIP& NDT) M Tech (EXTC) BE (EXTC)	IIT Roorkee Dr. B.A.T.U, Lonere Amravati	2012 2004 1999	Head of Department	01/03/2000	0	0	0	0	100	100	2012	07	17	23
3	Mr. K. H. Kamath	M.E (ETRX) BE(ECE)	MUMBAI Mangalore	2009 1986	Lecturer (Sel. Gr.)	03/12/1986	0	0	50	0	50	100				37
4	Mr. S. N. Jirapure	B.E(ETRX)	Amravati	1989	Lecturer (Sel. Gr.)	13/01/1992	0	0	100	100	0	0				31
5	Mr. R. V. Gheware	M.E (EXTC) BE(ETRX)	Dr.B. A. T.U Marathwada	2012 1992	Lecturer (Sel. Gr.)	03/07/1995	0	0	100	0	0	100			1	28

6	Dr. J. Natarajan	PhD(Elect.) M.E (EXTC) BE(ECE)	NIT Trichy Mumbai Bharathidasan	2023 2010 1996	Lecturer (Sel. Gr.)	01/07/ 1999	0	0	0	0	100	100	2023		6	24
7	Mrs. S. A. Datta	M.Sc(Maths) BEd	IIT kharagpur Mumbai	1992 1995	Lecturer (Sel. Gr.)	01/07/ 1999	50	57.1	50	42.9	0	0				24
8	Mr. A. C. Gurav	B.E (EXTC)	Shivaji (Kolhapur)	2002	Lecturer (Sr. Scale)	02/03/ 2004	100	100	0	0	0	0			1	19
9	Mr. S. R. Borkar	M.E(EXTC) B.E(ELECT.)	Mumbai Marathwada	2017 1992	Lecturer (Sr. Scale)	19/6/2 006	100	100	0	0	0	0			1	17
10	Dr. M. M. Munde	Ph.D (EXTC) M..Tech(EXT C) B.E(EXTC)	Dr.B. A. T.U, Lonere Dr.B. A. T.U, Lonere Dr. B.A.M.U, Aurangabad	2021 2008 2001	Lecturer (Sr. Scale)	27/06/ 2006	0	0	100	0	0	100	17/07/ 2021		12	17
11	Mr. V. Nagalikar	M.E(EXTC) B.E(ETRX)	Mumbai RTMNU	2008 2017	Lecturer (Sr. Scale)	11/08/ 2009	0	0	100	100	0	0			1	14
12	Mrs. S. A. Gaoshinde	B.E(EXTC)	RGPV Bhopal	2008	Lecturer	01/10/ 2010	66.6	0	33.4	100	0	0				13
13	Mr. R. R. Saroj	M.E(EXTC) BE(EXTC)	Mumbai	2015 2010	Lecturer	20/04/ 2015	0	21.1	0	15.8	100	63.1			1	8
14	Mr. A. A. Patil	M.E(ETRX) BE(ETRX)	Mumbai Mumbai	2014 2011	Lecturer	29/04/ 2015	40	100	20	0	40	0			1	8

For Academic Year 2022-2023

Sr. No.	Name of the faculty member	Qualification			Designation	Date of Joining Institute	Distribution of teaching load (%)						Academic Research since joining			Years of xperience
		Degree	University	Year of graduation.			1 st ODD SEM	1 st EVEN SEM	2 nd ODD SEM	2 nd EVEN SEM	3 rd ODD SEM	3 rd EVEN SEM	Received PhD. During the assessment years	PhD Guidance	Research Paper Publications	
1	Dr. S. B. Ghungrad	PhD(Elect.) MBA(HR) ME(BME) ME(Instr.) BE(INST.)	Mumbai Anna Univer. Mumbai Marathwada Marathwada	2008 2010 2002 1995 1990	Principal	09/05/2007	0	0	40	0	60	100	2008		10	15
2	Dr. V. R. Rathod	PhD(DIP&N DT) M Tech (EXTC) BE (EXTC)	IIT Roorkee Dr.B. A. T.U, Lonere Amravati	2012 2004 1999	Head of Department	01/03/2000	0	0	0	0	100	100	2012	7	17	22
3	Mr. K. H. Kamath	M.E (ETRX) BE(ECE)	MUMBAI Mangalore	2009 1986	Lecturer (Sel. Gr.)	03/12/1986	0	0	0	0	100	100				36
4	Mr. S. N. Jirapure	B.E(ETRX)	Amravati	1989	Lecturer (Sel. Gr.)	13/01/1992	90	0	0	100	10	0				30
5	Mr. R. V. Gheware	M.E (EXTC) BE(ETRX)	Dr.B. A.T.U Marathwada	2012 1992	Lecturer (Sel. Gr.)	03/07/1995	0		90	0	10	100			1	27

6	Dr. J. Natarajan	PhD(Elect.) M.E (EXTC) BE(ECE)	NIT Trichy Mumbai Bharathidasan	2023 2010 1996	Lecturer (Sel. Gr.)	01/07/ 1999	0	0	0	0	100	100	03/03/ 2023		6	23
7	Mrs. S. A. Datta	M.Sc(Maths) BEd	IIT kharagpur Mumbai	1992 1995	Lecturer (Sel. Gr.)	01/07/ 1999	50	0	50	55.5	0	0				23
8	Mr. A. C. Gurav	B.E (EXTC)	Shivaji (Kolhapur)	2002	Lecturer (Sr. Scale)	02/03/ 2004	0	0	0	0	100	100			1	18
9	Mr. S. R. Borkar	M.E(EXTC) B.E(ELECT.)	Mumbai Marathwada	2017 1992	Lecturer (Sr. Scale)	19/6/2 006	100	100	0	0	0	0			1	16
10	Dr. M. M. Munde	Ph.D (EXTC) M..Tech(EXT C) B.E(EXTC)	Dr.B. A. T.U, Lonere Dr.B. A. T.U, Lonere Dr. B.A.M.U, Aurangabad	2021 2008 2001	Lecturer (Sr. Scale)	27/06/ 2006	0	0	80	0	20	100	17/07/ 2021		8	16
11	Mr. V. Nagalikar	M.E(EXTC) B.E(ETRX)	Mumbai RTMNU	2008 2017	Lecturer (Sr. Scale)	11/08/ 2009	0	0	90	100	10	0			1	13
12	Mrs. S. A. Gaoshinde	B.E(EXTC)	RGPV Bhopal	2008	Lecturer	01/10/ 2010	18.2	0	81.8	100	0	0				12
13	Mr. R. R. Saroj	M.E(EXTC) BE(EXTC)	Mumbai Mumbai	2015 2010	Lecturer	20/04/ 2015	18.2	30	73.7	60	9.1	10			1	7
14	Mr. A. A. Patil	M.E(ETRX) BE(ETRX)	Mumbai Mumbai	2014 2011	Lecturer	29/04/ 2015	18.2	0	18.2	40	63.6	60			1	7

5.1 STUDENT-FACULTY RATIO (SFR) (25)**5.1. STUDENT-FACULTY RATIO (SFR) (20)**

S: F ratio = N/F ; **N**=No. of students= $3x$ where x is (approved intake + 20% lateral Entry intake+ separate division, if any)

F = No. of faculty = $(a + b - c)$ for every assessment year

lateral Entry is 10% for

DSY

Number of students **N** 396

Number of Faculty **F** 14

Years	2025-2026	CAY (2024-2025)	CAYm1 (2023-2024)	CAYm2 (2022-2023)
Regular Faculty (F)	13	14	14	14
Number of students(N)	396	396	396	396
N/F	30.47	28.29	28.29	28.29
Avg. (N/F)	28.84			

for SFR 1:25 Required number of Faculty = $396/25$

15.84

for SFR 1:30 Required number of Faculty = $396/30$

13.2

< = 25 - 25 Marks	< = 26 - 22 Marks	< = 27 - 20 Marks	< = 28 - 15 Marks	< = 29 - 12 Marks	< = 30 - 10 Marks	>30 - 0 Marks		
<table><tr><td>Marks</td><td>12 Marks</td></tr></table>		Marks	12 Marks					
Marks	12 Marks							

Faculty List

Sr.No	Name of the faculty member	Designation	Date of Joining Institute	2022-23 (Experience)	2023-24 (Experience)	2024-25 (Experience)	2025-26 (Experience)
1	Dr. S. B. Ghungrad	Principal	09/05/2007	10	17	18	19
2	Dr. V. R. Rathod	Head of Department	01/03/2000	23	24	25	26

3	Mr. K. H. Kamath	Lecturer (Sel. Gr.)	03/12/1986	37	38	39	Retired
4	Mr. S. N. Jirapure	Lecturer (Sel. Gr.)	13/01/1992	31	32	33	34
5	Mr. R. V. Gheware	Lecturer (Sel. Gr.)	03/07/1995	28	29	30	31
6	Dr. J. Natarajan	Lecturer (Sel. Gr.)	01/07/1999	24	25	26	27
7	Mrs. S. A. Datta	Lecturer (Sel. Gr.)	01/07/1999	24	25	26	27
8	Mr. A. C. Gurav	Lecturer (Sr. Scale)	03/02/2004	19	20	21	22
9	Mr. S. R. Borkar	Lecturer (Sr. Scale)	19/6/2006	17	18	19	20
10	Dr. M. M. Munde	Lecturer (Sr. Scale)	27/06/2006	17	18	19	20
11	Mr. V. Nagalikar	Lecturer (Sr. Scale)	11/08/2009	14	15	16	17
12	Mrs. S. A. Gaoshinde	Lecturer	01/10/2010	13	14	15	16
13	Mr. R. R. Saroj	Lecturer	20/04/2015	8	9	10	11
14	Mr. A. A. Patil	Lecturer	29/04/2015	8	9	10	11

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
2025-2026	13	0
2024-2025(CAY)	14	0
2023-2024(CAYm1)	14	0
2022-2023(CAYm2)	14	0

5.2 FACULTY QUALIFICATION (25)

5.2.1 FACULTY QUALIFICATION (20) + HOD (5)

FQ = $2.0 * (10x + 7y) / F$ where x is no. of faculty with M.Tech. (in case of humanities and science M.Phil./Ph.D.) and y is no. of faculty with B.Tech. (In case of humanities and science MA/M.sc), F is no. of faculty required to comply 1:25 Faculty Student Ratio

F is no. of faculty required to comply 1:25 Faculty Student ratio = 16

X is no. of faculty with M.Tech/M.E=10

Y is no. of faculty with B.Tech/B.E/M.Sc = 04

Faculty List

Sr.No	Name of the faculty member	Designation	2022-23	2023-24	2024-25	2025-26
1	Dr. S. B. Ghungrad	Principal	PhD M.E	PhD M.E	PhD M.E	PhD M.E
2	Dr. V. R. Rathod	Head of Department	PhD M.E	PhD M.E	PhD M.E	PhD M.E
3	Mr. K. H. Kamath	Lecturer (Sel. Gr.)	M.E	M.E	M.E	Retired
4	Mr. S. N. Jirapure	Lecturer (Sel. Gr.)	B.E	B.E	B.E	B.E
5	Mr. R. V. Gheware	Lecturer (Sel. Gr.)	M.E	M.E	M.E	M.E
6	Dr. J. Natarajan	Lecturer (Sel. Gr.)	PhD M.E	PhD M.E	PhD M.E	PhD M.E
7	Mrs. S. A. Datta	Lecturer (Sel. Gr.)	M.Sc	M.Sc	M.Sc	M.Sc
8	Mr. A. C. Gurav	Lecturer (Sr. Scale)	B.E	B.E	B.E	M.E
9	Mr. S. R. Borkar	Lecturer (Sr. Scale)	M.E	M.E	M.E	M.E
10	Dr. M. M. Munde	Lecturer (Sr. Scale)	PhD M.E	PhD M.E	PhD M.E	PhD M.E
11	Mr. V. Nagalikar	Lecturer (Sr. Scale)	M.E	M.E	M.E	M.E
12	Mrs. S. A. Gaoshinde	Lecturer	B.E	B.E	B.E	B.E
13	Mr. R. R. Saroj	Lecturer	M.E	M.E	M.E	M.E
14	Mr. A. A. Patil	Lecturer	M.E	M.E	M.E	M.E
Number of ME			10	10	10	09
Number of BE/M.Sc			04	04	04	04

Years	2025-2026	CAY(2024-2025)	CAYm1(2023-2024)	CAYm2(2022-2023)
Faculty Cadre Proportion	$FQ = 2.0 \times [\{10X + 7Y\}/F]$ $F=16$ $FQ = 2.0 \times [\{ (10*9) + (7*4) \}/16]$ $FQ= 14.75$	$FQ = 2.0 \times [\{10X + 7Y\}/F]$ $F=16$ $FQ = 2.0 \times [\{ (10*10) + (7*4) \}/16]$ $FQ= 16$	$FQ = 2.0 \times [\{10X + 7Y\}/F]$ $F=16$ $FQ = 2.0 \times [\{ (10*10) + (7*4) \}/16]$ $FQ= 16$	$FQ = 2.0 \times [\{10X + 7Y\}/F]$ $F=16$ $FQ = 2.0 \times [\{ (10*10) + (7*4) \}/16]$ $FQ= 16$

Years	2025-2026	CAY(2025-2024)	CAYm1(2023-2024)	CAYm2(2022-2023)
x	9	10	10	10
y	4	4	4	4
F	16	16	16	16
Faculty Qualification	14.75	16	16	16
Average	15.6875			

Total Marks = 16 + 5 (HOD) = 21

5.2.2 AVAILABILITY OF FACULTY/PRINCIPAL OF THAT DISCIPLINE WITH PHD. QUALIFICATION (5)

YES

5.3 FACULTY RETENTION (20)

Years	2025-2026	CAY (2024-2025)	CAYm1(2023-2024)	CAYm2(2022-2023)
Number of Faculty	13	14	14	14
Retention	13/14	14/14	14/14	14/14
Retention%	92.85%	100%	100%	100%
Average	98.21			

Item	2025-2026	CAY (2024-2025)	CAYm1 (2023-2024)	CAYm2 (2022-2023)
Number of faculty	13	14	14	14
Percentage	92.85%	100	100	100

Sr. No	Name of the faculty member	Designation	Date of Joining Institute	2025-2026 (Experience)	2024-2025 (Experience)	2023-2024 (Experience)	2022-2023 (Experience)
1	Dr. S. B. Ghungrad	Principal	09/05/2007	19	18	17	10
2	Dr. V. R. Rathod	Head of Department	01/03/2000	26	25	24	23
3	Mr. K. H. Kamath	Lecturer (Sel. Gr.)	03/12/1986	Retired	39	38	37
4	Mr. S. N. Jirapure	Lecturer (Sel. Gr.)	13/01/1992	34	33	32	31
5	Mr. R. V. Gheware	Lecturer (Sel. Gr.)	03/07/1995	31	30	29	28
6	Dr. J. Natarajan	Lecturer (Sel. Gr.)	01/07/1999	27	26	25	24
7	Mrs. S. A. Datta	Lecturer (Sel. Gr.)	01/07/1999	27	26	25	24
8	Mr. A. C. Gurav	Lecturer (Sr. Scale)	03/02/2004	22	21	20	19
9	Mr. S. R. Borkar	Lecturer (Sr. Scale)	19/6/2006	20	19	18	17
10	Dr. M. M. Munde	Lecturer (Sr. Scale)	27/06/2006	20	19	18	17
11	Mr. V. Nagalikar	Lecturer (Sr. Scale)	11/08/2009	17	16	15	14
12	Mrs. S. A. Gaoshinde	Lecturer	01/10/2010	16	15	14	13
13	Mr. R. R. Saroj	Lecturer	20/04/2015	11	10	9	8
14	Mr. A. A. Patil	Lecturer	29/04/2015	11	10	9	8

5.4 FACULTY AS PARTICIPANTS IN FACULTY DEVELOPMENT/TRAINING ACTIVITIES CONDUCTED BY OTHER ORGANIZATIONS (30)

A. Faculty scores maximum five points for participation

B. Three points - Participant in 2 to 5 days Faculty development program (05)

C. Five points - Participant >5 days Faculty development program (05)

Sr. No.	Name of the faculty member	Designation	2025-2026	2024-2025	2023-2024	2022-2023
1	Dr. S. B. Ghungrad	Principal	2 weeks			
2	Dr. V. R. Rathod	Head of Department	2 weeks + 2 weeks	2 weeks	2 weeks	

3	Mr. K. H. Kamath	Lecturer (Sel. Gr.)	----	----	----	----
4	Mr. S. N. Jirapure	Lecturer (Sel. Gr.)	1 week			
5	Mr. R. V. Gheware	Lecturer (Sel. Gr.)	1 week	2 weeks		
6	Dr. J. Natarajan	Lecturer (Sel. Gr.)	2weeks	1 week	-----	1 week
7	Mrs. S. A. Datta	Lecturer (Sel. Gr.)	-----	-----	-----	-----
8	Mr. A. C. Gurav	Lecturer (Sr. Scale)	1 week	2 week		
9	Mr. S. R. Borkar	Lecturer (Sr. Scale)	1 week + 2 weeks + 2 weeks	1 week+1 week +1 week	-----	1 week
10	Dr. M. M. Munde	Lecturer (Sr. Scale)				
11	Mr. V. Nagalikar	Lecturer (Sr. Scale)	1 week + 1 week	1 week + 1 week + 1 week	8 weeks + 1 week + 1 week	8 weeks
12	Mrs. S. A. Gaoshinde	Lecturer	-----	-----	----	1 week
13	Mr. R. R. Saroj	Lecturer	1 week + 1 week	1 week	-----	8 weeks
14	Mr. A. A. Patil	Lecturer	1week	1 week + 8 weeks	8 weeks	2 weeks + 8 weeks

Assessment = $6 \times \text{Sum} / 0.5 \text{ Required Faculty (Marks limited to 30)}$

Name of faculty (contributing to FP)	FP Points (Max. 5 per year per faculty)			
	CAY July 2025-June 2026	CAY July 2024-June 2025	CAYm1 July 2023-June 2024	CAYm2 July 2022-June 2023
Dr. S. B. Ghungrad	5			
Dr. V. R. Rathod	5	5	5	
Mr. K. H. Kamath	---	---	---	---
Mr. S. N. Jirapure	3			
Mr. R. V. Gheware	3	5		
Mrs. J. Natarajan	5	3		3
Mrs. S. A. Datta				

Mr. A. C. Gurav	3	5		
Mr. S. R. Borkar	5	5		3
Mr. M. M. Munde				
Mr. V. Nagalikar	5	5	5	5
Mrs. S. A. Gaoshinde				3
Mr. R. R. Saroj	5	3		5
Mr. A. A. Patil	3	5	5	5
Sum				
Assessment = $6 \times \text{Sum} / 0.5 \text{ Required Faculty}$	$6 \times 42/8$	$6 \times 36/8$	$6 \times 15/8$	$6 \times 35/8$
(Marks limited to 30)	31.5	27	11	26
Average assessment over three years	24			

5.4. A. ORGANIZED/ CONDUCTED FDPS AND STTP BY THIS DEPARTMENT AT STATE / NATIONAL LEVEL (12)

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5.5 PRODUCT DEVELOPMENT, CONSULTANCY, MANUFACTURING CONTRACTS, TESTING CONTRACTS (8)

-

5.6 FACULTY PERFORMANCE APPRAISAL AND DEVELOPMENT SYSTEM (FPADS) (30)

A. A WELL-DEFINED FPADS INSTITUTED FOR ALL THE ASSESSMENT YEARS (5)

The appraisal and performance evaluation of teaching and non-teaching staff is done as per government guidelines, and in the specified format provided, every year, by the end of the even term on the basis of the parameters listed below. The respective confidential reports are finalized accordingly.

Parameters:

- 1) Performance with respect to engagement of lectures and practicals.
- 2) Performance with respect to attendance of students.
- 3) Performance of students with respect to learning outcomes (results).
- 4) Other criteria:
 - a) Planning for conduct of theory and practicals.
 - b) Student guidance and counselling.
 - c) Assignments given to students and their evaluation.
 - d) Curriculum and learning resources development.
 - e) Seminars and Training Programmes conducted/ attended.
 - f) Co-curricular activities.
 - g) Involvement in administrative functions.

The final academic performance assessment and evaluation is done by the Review officer, Dr. S. B. Ghungrad (Principal) and Reporting officer Dr. Vijay R. Rathod (Head of Department).

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शासन निर्णय, सामान्य प्रशासन विभाग, क्रमांक:सीएफआर-१२१८/प्र.क्र.८/तेरा, दि. ५/३/२०१८ सोबतचे
"परिशिष्ट-अ"

प्रपत्र-६

For Professor /Associate Professor/Assistant Professor /Lecturer those working with colleges and universities other than medical and veterinary colleges and universities

वैद्यकीय व पशुवैद्यकीय महाविद्यालये व विद्यापीठे वगळून अन्य महाविद्यालये व विद्यापीठात कार्यरत प्राध्यापक / सहयोगी प्राध्यापक / सहायक प्राध्यापक/अधिव्याख्याता यांच्याकरिता

मूल्यमापन अहवालाचा कालावधि - ०१/०५/२०२४ पासून ३१/०३/२०२५

(Appraisal report for the period from to)

भाग १ (Section - १)

आस्थापना शाखेने भरावयाची माहिती (To be filled in by Establishment section)

१. प्रतिवेदन करावयाच्या शासकीय अधिकाऱ्याचे नाव
(Name of the officer reported upon)

Mr. ABHIJIT A. PATIL

२. संवर्ग (Cadre)

Lecturer (Group-A)

३. जन्म दिनांक (Date of Birth)

04/10/1989

४. सध्याचे पद (Present Post)

Lecturer

५. सध्याच्या पदावर नियुक्तीचा दिनांक (Date of appointment to present post)

29/04/2015

६. प्रशासकीय विभाग/ कार्यालय (Administrative Department / office)

St. Xavier's Technical Institute, Mumbai

७. प्रतिवेदन अधिकारी व पुनर्विलोकन अधिकारी यांचा तपशील (Details of Reporting and Reviewing officers)

	नाव (Name)	पदनाम (Designation)	कालावधि (Period)
अ) प्रतिवेदन अधिकारी (Reporting officer)	Dr. Vijay Rathod	HOD	01/04/2024 to 31/03/2025
ब) पुनर्विलोकन अधिकारी (Reviewing officer)	Dr. Shivaji Ghungrad	PRINCIPAL	01/04/2024 to 31/03/2025

REGISTRAR
ST. XAVIER'S TECHNICAL INSTITUTE
MUMBAI

पृष्ठ ४७ पैकी ३८

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भाग -४ (Section ४)

पुनर्विलोकन (Review)

पुनर्विलोकन अधिकाऱ्याचे अभिप्राय (Remarks of Reviewing Officer)

१. आपण प्रतिवेदन अधिकाऱ्याने, संबंधित अधिकाऱ्याच्या कार्यपूरता, कार्यक्षमता, वैयक्तिक गुणवैशिष्ट्ये यासंबंधाने भाग ३ मधील मुद्द्यांच्या सहाय्याने केलेल्या मूल्यनिर्धारणाशी सहमत आहात काय? (Do you agree with assessment of Reporting Officer on work done, efficiency, personal attributes in part ३ of concerned officer?)

✓

होय (Yes)

नाही (No)

२. सहमत नसल्यास, तपशिल व कारणे द्यावीत (In case of difference of opinion details and reasons for the same may be given)

३. अधिकाऱ्याचे एकंदरीत मूल्यमापन (जास्तीत जास्त १०० शब्द) (Overall Assessment of officer (Maximum १०० words) यामध्ये संबंधित अधिकाऱ्याची बलस्थाने, उणीवा आणि दिव्यांग व्यक्ती, महिला व मागासवर्गीयांबाबतचा दृष्टीकोन यांचा समावेश असावा. (Include Strengths and lesser strengths and his attitude towards disabled persons, women and Backward classes)

दिव्यांग व्यक्ती, महिला व मागासवर्गीयांबाबतचा दृष्टीकोन /मदतीचा/सहाय्याचा/सहानुभूतीचा/तटस्थ/अतटस्थ

४. पुढील नियुक्तीसाठी कार्यक्षेत्राबाबत शिफारशी (कमीत कमी ४)(Recommendations relating to domain assignment(At least ४))

१. Ph. D.	२. -
३. -	४. -

५. एकंदरीत गुणांकन (Overall Gradation) - ८.५
{१-१० या मर्यादेत गुणांकन देण्यात यावे.}Dr. Shivaji Ghungrad
PRINCIPAL
St. Xavier's Technical Institute
MUMBAI

ठिकाण (Place) - Mumbai.

दिनांक (Date) - 29.04.2025

पुनर्विलोकन अधिकाऱ्याची सहस्र, नाव व पदनाम

Signature, Name & Designation of Reviewing Officer

गोपनीय अहवालाची छायांकित प्रत समक्ष मिळाली.	गोपनीय अहवालाची छायांकित प्रत संबंधित अधिकारी/कर्मचारी यांना डाकेने पाठविल्यास पत्र क्र. -
संबंधित अधिकारी/कर्मचारी यांचे नाव व दिनांकित स्वाक्षरी	सहस्र, तपशिल विभागीय कार्यालय

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B. ITS IMPLEMENTATION AND EFFECTIVENESS (15)**Implementation**

The appraisal and performance evaluation of teaching and non-teaching staff are carried out in accordance with government guidelines to ensure transparency, accountability, and continuous professional development. The process typically includes the following steps:

1. Setting Performance Criteria:

- Teaching staff: Parameters include student feedback, research contributions, publications, teaching effectiveness, involvement in extracurricular activities, and administrative responsibilities.
- Non-teaching staff: Evaluated based on punctuality, work efficiency, adherence to institutional policies, and support to academic and administrative functions.

2. Self-Appraisal Reports:

3. Faculty members and staff submit a self-assessment report detailing their academic, research, and administrative contributions.
4. Students provide feedback on teaching effectiveness, subject knowledge, and classroom engagement.
5. Peer review helps assess collaboration, teamwork, and institutional contributions.
6. The HoD and principal evaluate faculty performance based on reports, feedback, and observations.
7. Non-teaching staff are assessed by their immediate supervisors and the administration.
8. A dedicated committee reviews the appraisals and makes recommendations for promotions, increments, or professional development.
9. The final evaluation report is submitted to the relevant education department authorities for validation and approval.

10. Student and Peer Feedback:

Electronics Devices & Circuits 2024-25; Subject Teacher: Mr. Rakeshkumar Saroj

* Indicates required question

1. Email *

2. 1) Has the Teacher covered entire Syllabus as prescribed by University/ College/ Board *

Mark only one oval.

- ☐ Excellent
- ☐ Very good
- ☐ Good
- ☐ Poor
- ☐ Very Poor

3. 2) Has the Teacher covered relevant topics beyond syllabus *

Mark only one oval.

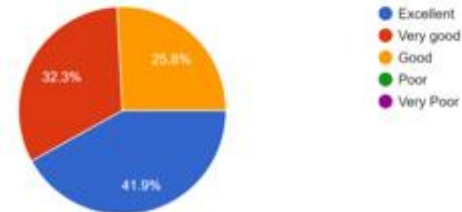
- ☐ Excellent
- ☐ Very good
- ☐ Good
- ☐ Poor
- ☐ Very Poor

Basic Electronics AY 2025-26

Subject Teacher: Mr. Anil Gurav

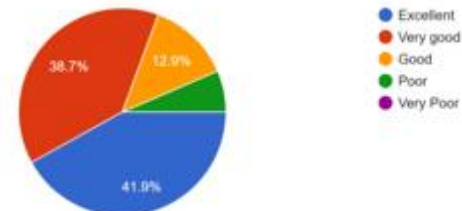
1) Has the Teacher covered entire Syllabus as prescribed by University/ College/ Board

31 responses



2) Has the Teacher covered relevant topics beyond syllabus

31 responses

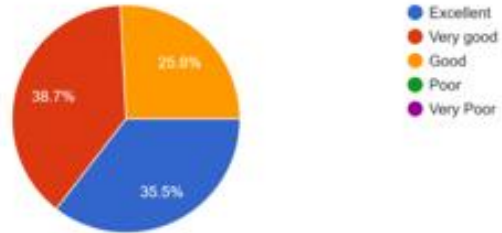


3) Effectiveness of Teacher in terms of: (a) Technical content/ course content (b) Communication skills (c) Use of teaching aids

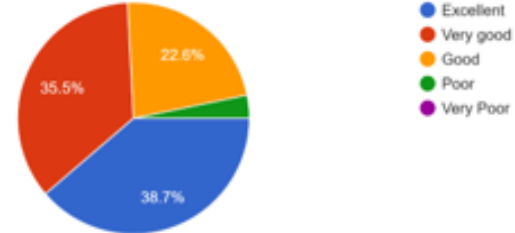
31 responses



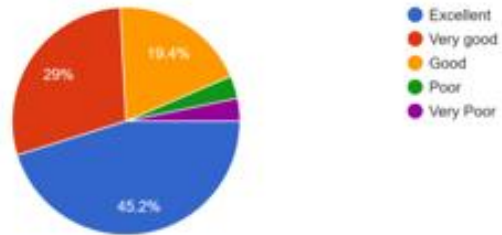
4) Pace on which contents were covered
31 responses



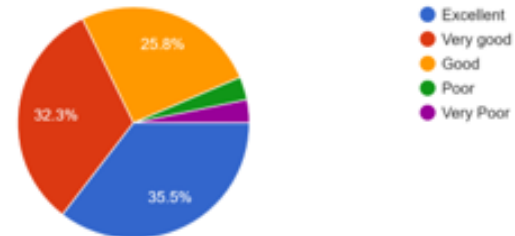
6) Support for the development of student skill (i) Practical demonstration ii) Hands on training
31 responses



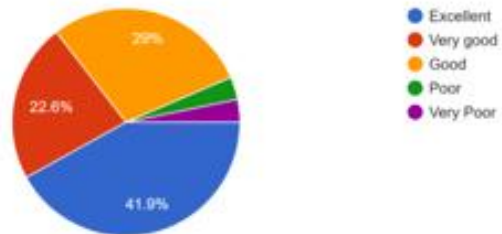
5) Motivation and inspiration for students to learn
31 responses



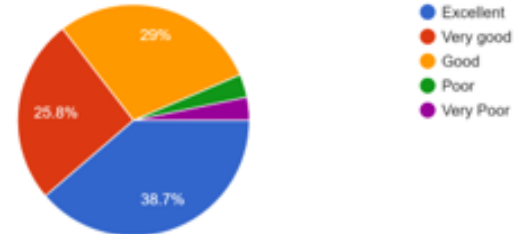
7) Clarity of expectations of students
31 responses



9) Willingness to offer help and advice to students
31 responses



8) Feedback provided on students progress
31 responses



11. Head of Department (HoD) and Principal Review:

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भाग ३ (Section 3)

प्रतिवेदन अधिकार्याने लिहावयाचा मूल्यमापन अहवाल

Performance Appraisal Report prepared by reporting officer

१. भाग २ मध्ये नमूद करण्यात आलेल्या स्वयंमूल्यनिर्धारण अहवालाशी आपण सहमत आहात काय? नसल्यास, वस्तुस्थितीदर्शक अभिप्राय द्यावेत. (Whether you agree with self-assessment recorded in part two? If not, then state factual position)

५६

२. प्रतिवेदन कालावधित पार पाडलेल्या महत्त्वपूर्ण व उल्लेखनीय कामांसंदर्भात आपले स्पष्ट अभिप्राय द्यावेत. (Offer your remarks on important and noteworthy works mentioned in self-assessment report)

1. Not enough work is done
2. School connects
3. With the new letter
- 4.

३. प्रतिवेदित अधिकारी/कर्मचारी यांचे त्यांच्या कामाच्या संदर्भात लक्षणीय अपयश निदर्शनास आले असल्यास वस्तुस्थितीदर्शक अभिप्राय द्यावेत. (Has the officer/employee reported upon met with significant failures in respect of his work? If yes, please furnish factual details)

No

४. संबंधित अधिकार्यांनी कार्यक्षमता वाढविण्याकरीता आवश्यक असलेल्या प्रशिक्षणाचे क्षेत्रास सहमत आहात काय ? (Do you agree with the skill up-gradation needs as identified by the officer ?)

५६

५. अधिकारी/कर्मचारी यांची कार्यपूरता, कार्यक्षमता व वैयक्तिक गुणवैशिष्ट्ये याबाबतचे गुणांकन. (Gradation on works completed, efficiency and personal attributes by officers/ employees) {१-१० या मर्यादेत गुणांकन देण्यात यावे.}

०८

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अ) कार्यपूरता (Work completion) (weightage ४० %)

अ.क्र. Sr.No.	मुद्दे Points	प्रतिवेदन अधिकारी Reporting Officer	पुनर्विलोकन अधिकारी (Review Officer)	पुनर्विलोकन अधिकार्यांची स्वाक्षरी (Signature of Review Officer)
१	उद्दिष्टानुसार नेमून दिलेल्या कार्याची पूर्तता (Accomplishment of planned work)	८.५	८.५	
२	केलेल्या कामाचा दर्जा (Quality of Output)	८.५	८.५	
३	केलेली उल्लेखनीय/ वैशिष्ट्यपूर्ण कामे (Accomplishment of exceptional work / unforeseen tasks performed)	८.५		
प्राध्यापक / सहयोगी प्राध्यापक / सहायक प्राध्यापक/अधिव्याख्याता यांच्याकरिता अतिरीक्त मुद्दे (Additional points for Professor / Associate Professor/Assistant Professor/Lecturer)				
४	विद्यार्थ्याकरीता व्याख्यान, प्रात्यक्षिके घेऊन विहीत कालावधीत पूर्ण केलेल्या अभ्यासक्रमाचे मूल्यमापन (Evaluation of completed syllabus in stipulated period with lectures and practical)	८.५	८.५	
	कार्यपूरता या घटकाचे सरासरी गुणांकन (Average gradation on Work completion)	८.५	८.५	

ब) वैयक्तिक गुणवैशिष्ट्ये (Personal attributes) (weightage ३० %)

अ.क्र. Sr.No.	मुद्दे Items	प्रतिवेदन अधिकारी Reporting Officer	पुनर्विलोकन अधिकारी (Review Officer)	पुनर्विलोकन अधिकार्यांची स्वाक्षरी (Signature of Review Officer)
१	कामाबाबतचा दृष्टीकोन (Attitude to work)	८.५		
२	जबाबदारीची जाणीव (Sense of responsibility)	८.५		
३	सर्वसाधारण वर्तणूक व व्यक्तिमत्त्व (Overall bearing and Personality)	८.५	८.५	
४	भावनात्मक संतुलन (Emotional stability)	८.५		
५	संवाद कौशल्य (Communication Skills)	८.५		

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६	नैतिक धैर्य आणि व्यावहारिक भूमिका घेण्याचा कल (Moral Courage and willingness to take professional stand)	8.5		
७	नेतृत्वगुण (Leadership qualities)	8.5	8.5	
८	विहीत कालमर्यादित काम करण्याची क्षमता (Capacity to work in time limit)	8.5		
प्राध्यापक / सहयोगी प्राध्यापक / सहायक प्राध्यापक/अधिव्याख्याता यांच्याकरिता अतिरीक्त मुद्दे (Additional points for Professor /Associate Professor/Assistant Professor/Lecturer)				
९	विद्यार्थ्यांचे समुपदेशन, करिअरविषयक मार्गदर्शन, संशोधन कार्य/ विशेष कौशल्य यासंदर्भात मार्गदर्शन (Students counselling, career guidance, guidance in respect of research work/special skills)	8.5		
१०	अभ्यासक्रमाशी निगडित आणि पूरक उपक्रमातील सहभाग जसे की, पर्यावरण, साक्षरता, वृक्षारोपण, नैतिक व सामाजिक मुल्ये याविषयांचे कार्यक्रम, शैक्षणिक सहल इ. (Participation In co-curricular and extra-curricular activities viz programmes related to environment, literacy, tree plantation, moral and social values study tours etc)	8.5	8.5	
	वैयक्तिक गुणवैशिष्ट्ये या घटकाचे सरासरी गुणांकन (Average gradation on Personal Attributes)	8.5	8.5	

क) कार्यक्षमता (Efficiency) (weightage 30 %)

अ.क्र. Sr.No.	मुद्दे (Items)	प्रतिवेदन अधिकारी Reporting Officer	पुनर्विलोकन अधिकारी (Review Officer)	पुनर्विलोकन अधिकार्याची स्वाक्षरी (Signature of Review Officer)
१	संबंधित कायदे, नियम व प्रचलित कार्यपद्धती, माहिती तंत्रज्ञान आणि संबंधित क्षेत्रातील स्थानिक पद्धती याबाबतचे ज्ञान (Knowledge of relevant Acts/ Rules/procedures/IT Skill and awareness of local norms in the relevant area)	8.5	8.5	

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शासन निर्णय क्रमांक: सीएफआर-१२१८/प्र.क्र.८/तेरा

२	कौशल्यपूर्ण नियोजनाची क्षमता (Strategic planning ability)	8.5		
३	स्वतः निर्णय घेऊन काम करण्याची क्षमता (Decision making ability)	8.5		
४	उपक्रमशीलता (Initiative)	8.5		
५	आपल्या कामांशी संबंध येणाऱ्या इतर शासकीय यंत्रणेशी समन्वय साधण्याची क्षमता (Ability to co-ordinate with other government agencies in relation to work.)	8.5	8.5	
६	हाताखालील कर्मचाऱ्यांना प्रेरणा देणे आणि त्यांच्या विकसनाची क्षमता (Ability to motivate and develop subordinates/work in a team)	8.5		
प्राध्यापक / सहयोगी प्राध्यापक / सहायक प्राध्यापक/अधिव्याख्याता यांच्याकरिता अतिरीक्त मुद्दे (Additional points for Professor /Associate Professor/Assistant Professor/Lecturers)				
७	उपलब्ध साधन सामुग्रीचा इष्टतम विनियोग करण्याची क्षमता (Capacity to make use of available resources in an optimum manner)	8.5	8.5	
	कार्यक्षमता या घटकाचे सरासरी गुणांकन (Average gradation on Work efficiency)	8.5	8.5	

६. संबंधित कर्मचाऱ्याच्या सचोटी व चारित्र्याबाबत आपले स्वयंस्पष्ट अभिप्राय दयावेत (प्रतिकूल अभिप्राय असल्यास सोबत त्याबाबतची उदाहरणे नमूद करावीत) (Offer your remarks on character and integrity (if remarks are negative, then mention instances)

Good

७. अधिकारी/कर्मचारी यांचे एकंदरीत मूल्यमापन (जास्तीत जास्त १०० शब्द) (Overall Assessment of officer/employee (Maximum 100 words)
यामध्ये संबंधित अधिकाऱ्याची बलस्थाने, उणीवा आणि दिव्यांग व्यक्ती, महिला व मागासवर्गीयांबाबतचा दृष्टीकोन यांचा समावेश असावा. (Include Strengths and lesser strengths and his attitude towards disabled persons, women and Backward classes)

Likes to work

दिव्यांग व्यक्ती, महिला व मागासवर्गीयांबाबतचा दृष्टीकोन / मंदीला/सहकार्याचा/सहानुभूतीचा/तटस्थ/अतटस्थ

८. प्रकृतीमान (State of Health)

(उत्कृष्ट/चांगले/चांगले नाही) (Very good/Good/Not Good)

Very Good

मुल्य ४७ पैकी ४५

शासन निर्णय क्रमांक: सीएफआर-१२१८/प्र.क्र.८/तेरा

१. पुढील नियुक्तीसाठी कार्यक्षेत्राबाबत शिफारशी (कमीत कमी ४)(Recommendations relating to domain assignment)(At least 4)

१. <i>Highs Achievers</i>	२. <i>FDP / NPTEL</i>
३. <i>one Conference Paper / for femster mnl</i>	४. <i>one Journal Paper for femster mnl</i>

१०. एकंदरीत गुणांकन (Overall Gradation)

8.5

ठिकाण (Place) *Mumbai.*दिनांक (Date) *29.04.2025*प्रतिवेदन अधिकाऱ्याची सही, नाव व पदनाम
Signature, Name & Designation of Reporting Officer

VIJAY R. RATHOD
Head, Dept. Of Electronics
St. Xavier's Technical Institute
Mahim, Mumbai - 400 016.

Dr. Shivali Chhangrad
Principal
St. Xavier's Technical Institute
Mahim, Mumbai - 400 016

शासन निर्णय क्रमांक: सीएफआर-१२१८/प्र.क्र.८/तेरा

भाग -४ (Section 4)

पुनर्विलोकन (Review)

पुनर्विलोकन अधिकाऱ्याचे अभिप्राय (Remarks of Reviewing Officer)

१. आपण प्रतिवेदन अधिकाऱ्याने, संबंधित अधिकाऱ्याच्या कार्यपूरता, कार्यक्षमता, वैयक्तिक गुणवैशिष्ट्ये यासंबंधाने भाग ३ मधील मुद्द्यांच्या सहाय्याने केलेल्या मूल्यनिर्धारणाशी सहमत आहात काय? (Do you agree with assessment of Reporting Officer on work done, efficiency, personal attributes in part 3 of concerned officer?)

✓

होय (Yes)

नाही (No)

२. सहमत नसल्यास, तपशिल व कारणे द्यावीत (In case of difference of opinion details and reasons for the same may be given)

३. अधिकाऱ्याचे एकंदरीत मूल्यमापन (जास्तीत जास्त १०० शब्द) (Overall Assessment of officer (Maximum 100 words) यामध्ये संबंधित अधिकाऱ्याची बलस्थाने, उणीवा आणि दिव्यांग व्यक्ती, महिला व मागासवर्गीयांबाबतचा दृष्टीकोन यांचा समावेश असावा. (Include Strengths and lesser strengths and his attitude towards disabled persons, women and Backward classes)

दिव्यांग व्यक्ती, महिला व मागासवर्गीयांबाबतचा दृष्टीकोन
/मदतीचा/सहाय्याचा/सहानुभूतीचा/तटस्थ/अतटस्थ

४. पुढील नियुक्तीसाठी कार्यक्षेत्राबाबत शिफारशी (कमीत कमी ४)(Recommendations relating to domain assignment)(At least 4)

१. <i>Ph. D.</i>	२. <i>-</i>
३. <i>-</i>	४. <i>-</i>

५. एकंदरीत गुणांकन (Overall Gradation) - *8.5*
{ १-१० या मर्यादेत गुणांकन देण्यात यावे. }

ठिकाण (Place) - *Mumbai.*दिनांक (Date) - *29.04.2025*

Dr. Shivali Chhangrad
Principal
St. Xavier's Technical Institute
Mahim, Mumbai - 400 016

पुनर्विलोकन अधिकाऱ्याची सही, नाव व पदनाम

Signature, Name & Designation of Reviewing Officer

गोपनीय अहवालाची छायांकित प्रत समक्ष मिळाली, <i>uptil 22/04/2026</i>	गोपनीय अहवालाची छायांकित प्रत संबंधित अधिकारी/कर्मचारी यांना द्यावेने पाठविल्यास पत्र क्र. - <i>सहसंचालक,</i>
संबंधित अधिकारी/कर्मचारी यांचे नाव व दिनांकित स्वाक्षरी	दिनांक - <i>सहाय्य विभागीय कार्यालय</i>
	संस्करण अधिकारी यांचे नाव, पदनाम व स्वाक्षरी

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12. Government Compliance and Approval:

शासन निर्णय क्रमांक: सीएफआर-१२१८/प्र.क्र.८/तेरा

भाग -४ (Section ४)

पुनर्विलोकन (Review)

पुनर्विलोकन अधिकाऱ्याचे अभिप्राय (Remarks of Reviewing Officer)

१. आपण प्रतिवेदन अधिकाऱ्याने, संबंधित अधिकाऱ्याच्या कार्यपूरता, कार्यक्षमता, वैयक्तिक गुणवैशिष्ट्ये यासंबंधाने भाग ३ मधील मुद्द्यांच्या सहाय्याने केलेल्या मूल्यनिर्धारणाशी सहमत आहात काय? (Do you agree with assessment of Reporting Officer on work done, efficiency, personal attributes in part ३ of concerned officer?)

होय (Yes)

नाही (No)

२. सहमत नसल्यास, तपशिल व कारणे द्यावीत (In case of difference of opinion details and reasons for the same may be given)

३. अधिकाऱ्याचे एकंदरीत मूल्यमापन (जास्तीत जास्त १०० शब्द) (Overall Assessment of officer (Maximum १०० words) यामध्ये संबंधित अधिकाऱ्याची बलस्थाने, उणीवा आणि दिव्यांग व्यक्ती, महिला व मागासवर्गीयांबाबतचा दृष्टीकोन यांचा समावेश असावा. (Include Strengths and lesser strengths and his attitude towards disabled persons, women and Backward classes)

दिव्यांग व्यक्ती, महिला व मागासवर्गीयांबाबतचा दृष्टीकोन
/ मंदीला/सहकारिता/सहसुधीचा/तटस्थ/अतटस्थ

४. पुढील नियुक्तीसाठी कार्यक्षेत्राबाबत शिफारशी (कमीत कमी ४)(Recommendations relating to domain assignment(At least ४))

१. Ph. S.	२. -
३. -	४. -

५. एकंदरीत गुणांकन (Overall Gradation) - 8.5
{ १-१० या मर्यादेत गुणांकन देण्यात यावे. }

ठिकाण (Place) - Mumbai.

दिनांक (Date) - 29.04.2025

Dr. Shivali Chingrad
PRINCIPAL
St. Xavier's Technical Institute
पुनर्विलोकन अधिकाऱ्याची स्वाक्षरी, नाव व पदनाम
Signature, Name & Designation of Reviewing Officer

गोपनीय अहवालाची छायांकित प्रत समक्ष मिळाली, उपरिल 22/04/2026	गोपनीय अहवालाची छायांकित प्रत संबंधित अधिकारी/कर्मचारी यांना डावेने पाठविल्यास पत्र क्र. - सहसंचालक, संशोधन विभागीय कार्यालय, संस्करण अधिकारी यांचे माध्यमे पदनाम व स्वाक्षरी
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पृष्ठ ४७ पैकी ४७

Effectiveness

The structured appraisal system enhances institutional growth and employee performance through:

1. **Professional Development:**
 - i. Encourages faculty to enhance teaching methodologies, research activities, and skill development.
2. **Quality Assurance:**
3. Ensures a high standard of education by continuously monitoring and improving teaching effectiveness.
4. A fair and systematic evaluation process boosts employee motivation and institutional trust.
5. Performance-based promotions and financial benefits encourage staff to excel in their roles.
6. Regular evaluation ensures that non-teaching staff maintain efficiency in administrative and operational tasks.
7. Constructive feedback mechanisms help staff address weaknesses and refine their performance.
8. Accountability and Transparency.
9. Incentives and Career Growth.
10. Improved Institutional Efficiency.
11. Feedback-Driven Improvement.

By adhering to government guidelines, the appraisal and evaluation process fosters a culture of continuous improvement, benefiting both staff and students while maintaining institutional excellence.

C. DETAILS OF QUALIFICATION UP-GRADATION OF FACULTY (10)**Details of qualification up-gradation of faculty**

Dr. M M Munde Completed his PhD program from Babasaheb Ambedkar Technological Institute Lonere , on 17 july 2021

Dr. Janani Natarajan Completed her PhD program from NIT Trichy , on 28 july 2023

Mr S. R Borkar is Pursuing PhD program from Nagpur University since July 2023

Mr. Vinay Nagalikar is Pursuing PhD Program from Mumbai University since July 2024

Mr. Anil Gurav Completed his ME from Shivaji University Kolhapur , on 16 June 2026

CRITERION 6	FACILITIES AND TECHNICAL SUPPORT	100
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6.1 AVAILABILITY OF ADEQUATE, WELL EQUIPED CLASSROOMS TO MEET THE CURRICULUM REQUIREMENTS (10)

Adequacy of Classrooms

- Sufficient number of classrooms as per student intake.
- Proper seating arrangement ensuring comfort and visibility.

Infrastructure & Facilities

- Availability of smart boards in all classrooms and laboratories.
- Adequate ventilation, lighting, and seating facility.

ICT-Enabled Learning Environment

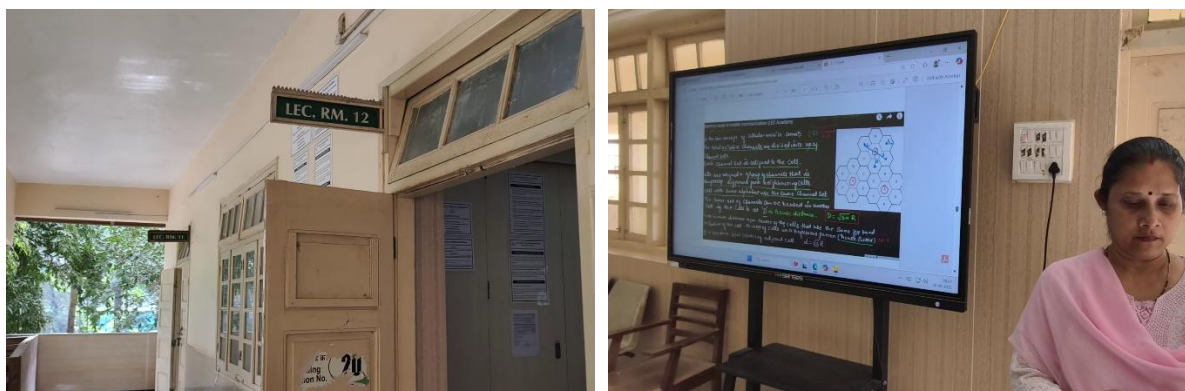
- Availability of Wi-Fi, online learning platforms, and audio-visual aids.

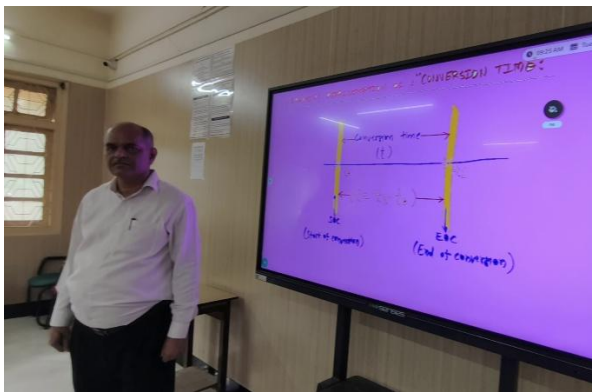
Specialized Labs & Seminar Rooms

- Availability of dedicated labs and tutorial rooms for hands-on learning.
- Seminar halls with audio-visual facilities for expert lectures and workshops.

Maintenance & Accessibility

- Regular maintenance of classrooms and technological infrastructure.
- Accessibility features for students with disabilities.





6.2 AVAILABILITY OF ADEQUATE AND WELL-EQUIPPED WORKSHOPS, LABORATORIES AND TECHNICAL MANPOWER TO MEET THE CURRICULUM REQUIREMENTS (40)

A. ADEQUACY (10)

Sufficient number of laboratories and workshops as per the curriculum requirements.

- Specialized labs (e.g., Communication, Computers, IoT, AI, Microcontroller) available.
- Labs/workshops aligned with Program Outcomes (POs) & Program-Specific Outcomes (PSOs).
- Adequate space, ventilation, seating capacity, and accessibility for all students.
- Adequate number of qualified lab assistants, technicians, and support staff.

- Staff as per AICTE/NBA norms (Diploma/Degree in relevant fields).
- Trained personnel for handling sophisticated equipment and troubleshooting.
- Availability of staff for student projects and workshops
- Effective utilization of labs and workshops for academic courses, projects.
- Standard Operating Procedures (SOPs) displayed for each lab/workshop.
- Adequate safety measures – fire extinguishers, first-aid kits.
- Proper waste disposal and e-waste management in the premises.
- Regular maintenance schedules and records for lab equipment.



B. QUALITY OF LABS/WORKSHOP (20)**Availability & Adequacy of Labs**

- Labs are sufficient in number as per the curriculum.
- Well-equipped with modern hardware/software relevant to the syllabus.
- Availability of specialized labs (Communication, Computer, IoT, AI) based on program requirements.

Functionality & Maintenance of Equipment

- Regular calibration and maintenance of lab equipment.
- Proper working condition of machines, computers, and software.
- AMC (Annual Maintenance Contracts) for major equipment.

ICT & Software Tools Availability

- Availability of licensed software, simulation tools, and cloud-based platforms.
- ICT-enabled learning resources such as virtual labs and online repositories.

Technical Staff & Support

- Adequate number of qualified lab assistants/technicians for maintenance and support.
- Regular training programs for technical staff to enhance competency.
- Availability of SOPs (Standard Operating Procedures) for lab usage and safety.

Utilization & Industry Collaboration

- Labs are effectively used for practical sessions, research.
- Collaboration with industry for hands-on training, guest lectures, and live projects.
- Evidence of students using lab resources for projects, internships, and competitions.

C. TECHNICAL MANPOWER SUPPORT –ELIGIBLE AND ADEQUATE (10)**1. Adequacy of Technical Staff**

- Staff-to-Lab Ratio: Sufficient technical staff based on the number of labs/workshops.
- Compliance with AICTE/NBA norms for lab assistants, technicians, and support staff.
- Availability of support staff during regular lab sessions, project work.

2. Qualification & Eligibility

- Our technical staff is well qualified.
- Certified/trained personnel for specialized equipment and software.
- Continuous upskilling through workshops and training programs.

3. Roles & Responsibilities

- Lab assistants are actively involved in equipment setup, troubleshooting, and maintenance.
- Support for student projects.
- Effective implementation of Standard Operating Procedures (SOPs) and safety protocols.

4. Training & Professional Development

- Periodic training programs for new technologies, software tools, and safety measures.
- Participation in faculty development programs (FDPs), industry collaborations, and technical workshops.

5. Performance & Feedback Mechanism

- Periodic performance appraisal and feedback from faculty and students.
- Mechanisms for addressing technical issues and lab-related grievances.
- Records of attendance, workload distribution, and maintenance logs.

Sr. No	Name of the Laboratory	Number of students per setup (Batch Size)	Name of the Important Equipment (Costing more than Rs.30,000)	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Computer Centre / Lab1	20	Computers, Wifi Router, Network Switch, Smart Board	24hrs	Mr. Darshan Chavan	Lab. Assistant	D. Eng. (DERE), BCA
2	Computer Centre / Lab2	20	Computers, Network Switch, Smart Board	24hrs	Mr. Darshan Chavan	Lab. Assistant	D. Eng. (DERE), BCA
3	Computer Centre / Lab3	20	Computers, Wifi Router, Smart Board	24hrs	Mr. Mahendra Gawade	Electrician	BSC IT
4	Microcontroller Lab	20	8051 kits, 8085 kits, Peripheral Study cards, Computers, Network	24hrs	Mrs. Anushree Samant	Lab. Assistant	D. Eng. (DEVE), ADCSSAA, DCHN

			Switch, Smart Board				
5	Basic Electronics Lab	20	CRO, DSO, Signal Generator, Power Supply, Adtron Kits, Vision India kits, Basic Circuit Simulators	24hrs	Mrs. Anushree Samant	Lab. Assistant	D. Eng. (DEVE), ADCSSAA, DCHN
6	Communication Lab	20	Fiber Optic kits, XPO Master Unit, AM Receivers kits, DSO, Signal Generator, DCOM Kits, Microwave Test Bench, Computers, Network Switch, Smart Board	24hrs	Mrs. Darshana Jadhav	Lab. Assistant	B.E. (ELE), D. Eng. (DEVE)
7	Electrical Lab	20	CRO, Signal Generator, Power Supply	24hrs	Mr. Shankar Pansare	Lab. Assistant	D.Eng. (IE)
8	Materials & Component Lab	20	DSO, CRO, Signal Generator, Power Supply, Soldering Stations, Programmable Power supply	24hrs	Mr. Shankar Pansare	Lab. Assistant	D.Eng. (IE)
9	Artificial Intelligence Lab	20	Personal Computer, Router Projector, Smart Board	24hrs	Mr. Mahendra Gawade	Electrician	BSC IT

10	Advanced Electronics Lab	20	Power Supply, IC tester, Power Electronics kits	24hrs	Ms. Snehal Mane	Lab. Assistant	Diploma (Electronics)
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 ST. XAVIER'S TECHNICAL INSTITUTE, MAHIM, MUMBAI TIMETABLE ODD SEM A.Y 2026-27 LAB:- COMMUNICATION LAB (W.E.F 29 Jun)					 ST. XAVIER'S TECHNICAL INSTITUTE, MAHIM, MUMBAI TIMETABLE ODD SEM A.Y 2026-27 LAB:- BASIC ELECTRONICS LAB (W.E.F 29 Jun)				
Timings/Day	MON	TUE	WED	THR	Timings/Day	MON	TUE	WED	THR
8:45 AM - 9:45 AM		SMC B1 (JN)	SMC B2 (JN)	SMC A1 (JN)	8:45 AM - 9:45 AM		BE A2(AG)	BE B2(AG)	
9:45 - 10:45					9:45 - 10:45				
10:45 - 11:00	SHORT BREAK				10:45 - 11:00	SHORT BREAK			
11:00 - 12:00	MRFOC A1 (RVG)	MRFOC A2 (RVG)	PECOM B3(SG)	MRFOC B1 (RVG)	11:00 - 12:00				
12:00 - 01:00					12:00 - 01:00				
01:00 - 01:30	LONG BREAK				01:00 - 01:30	LONG BREAK			
01:30 - 02:30	PECOM B1(SG)	PECOM B2(SG)	PECOM A1(SG)	PECOM A2(SG)	01:30 - 02:30	LIC B2(VN)	LIC B3 (VN) BE A1(AG)	LIC A2(VN)	LIC A1(VN)
02:30 - 3:30					02:30 - 3:30			BE A3(AG)	
03:30 - 4:30					03:30 - 4:30				
 Mr. Vinaykumar S. Nagalikar TIMETABLE COORDINATOR					 Mr. A.C. Gurav LAB INCHARGE				
 ST. XAVIER'S TECHNICAL INSTITUTE, MAHIM, MUMBAI TIMETABLE ODD SEM A.Y 2026-27 LAB:- COMPUTER CENTRE(CC1) LAB (W.E.F 29 Jun)					 ST. XAVIER'S TECHNICAL INSTITUTE, MAHIM, MUMBAI TIMETABLE ODD SEM A.Y 2026-27 LAB:- DIGITAL ELECTRONICS LAB (W.E.F 29 Jun)				
Timings/Day	MON	TUE	WED	THR	Timings/Day	MON	TUE	WED	THR
8:45 AM - 9:45 AM	CSCB A1A2(AP)	CCS A1(SRB)	IT B1(MM)	IT B2(MM)	8:45 AM - 9:45 AM		DE B2(SNJ)	DE B1(SNJ)	
9:45 - 10:45					9:45 - 10:45				
10:45 - 11:00	SHORT BREAK				10:45 - 11:00	SHORT BREAK			
11:00 - 12:00	PYTHON A2(AG)		DCCN A1 (MM)	CCS A2(JN)	11:00 - 12:00	IE A1(SNJ)	IE A2(SNJ)	IE B2(RVG)	DE A1(SNJ)
12:00 - 01:00					12:00 - 01:00				
01:00 - 01:30	LONG BREAK				01:00 - 01:30	LONG BREAK			
01:30 - 02:30	DCCN B1 (MM)			DCCN B2 (MM)	01:30 - 02:30		IE B1(RVG)		
02:30 - 3:30			IT B3(MM)		02:30 - 3:30			IE B3(AP)	
03:30 - 4:30					03:30 - 4:30				
 Mr. R.V. Gheware LAB INCHARGE					 Mr. S N Jirapure LAB INCHARGE				

Fig : Laboratory Time Tables of 2026-2027

6.3 ADDITIONAL FACILITIES CREATED FOR IMPROVING THE QUALITY OF LEARNING EXPERIENCE IN LABORATORIES (20)

A. FACILITIES (10)

- Sufficient number of laboratories and workshops as per the curriculum requirements.
- Specialized labs (e.g., Communication, Computers , IoT, AI, Microcontroller) available.
- Labs/workshops aligned with Program Outcomes (POs) & Program-Specific Outcomes (PSOs).
- Adequate space, ventilation, seating capacity, and accessibility for all students.
- Availability of modern and industry-relevant equipment, software, and tools.
- Regular maintenance, calibration, and replacement of outdated equipment.
- Well-equipped computer labs with licensed software (MATLAB, AutoCAD, Ansys, Python, etc.).
- Smart classrooms, projectors, audio-visual aids, and high-speed internet in labs.
- Adequate number of qualified lab assistants, technicians, and support staff.
- Staffs per the AICTE / NBA norms (Diploma/Degree in relevant fields).
- Trained personnel for handling sophisticated equipment and troubleshooting.
- Availability of staff for student projects and workshops.

B. EFFECTIVE UTILIZATION (5)

- Effective utilization of labs and workshops for academic courses, projects.
- Industry collaborations for hands-on training, guest lectures, and skill development.
- Integration of laboratory work in curriculum with well-defined practical outcomes.
- Evidence of students using labs for final-year projects, and competitions.
- Standard Operating Procedures (SOPs) displayed for each lab/workshop.
- Adequate safety measures – fire extinguishers, first-aid kits.
- Proper waste disposal and e-waste management in labs.
- Regular maintenance schedules and records for lab equipment.



Guest Lecture in Communication Lab



Student repairing kit in Control Systems Lab



Students doing Project work in CC2 Lab



Students utilising Communication Lab for making project

C. RELEVANCE TO POS/PSOS (5)

Relevance has been mapped in the table given below

Sr. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	Smart Board in all the Classrooms and Labs	Smart Boards are provided in all Labs and classrooms.	For better Presentation and explanation.	Demonstration on of practical Experiments	Students are exposed to more visuals and videos.	PO4, PSO2
2	Tool Kit	Digital Multimeter, Soldering iron, Cutter, Stripper, Screw driver set, Desolder Pump, Bread Board, Probes, Flux, General purpose PCB.	To measure various parameters such as current, voltage, resistance. To solder /desolder the components on the PCB To cut / strip wires/leads of the components To build and test various circuits.	To perform experiments & Project Work.	Students will get individual hands on experience to use various tools.	PO4, PSO1, PSO2
3	Internet Access	All Computers have Internet Access.	To get information about Project & Seminar. To allow internet access in the college campus.	To complete Project and Seminar presentation.	Every student gets opportunity to explore the WEB.	PO1 to PO7, PSO1, PSO2
4	Design, Simulation, Assembly and Testing of circuit.	Simulation software. Sci-Lab, Eagle software.	To enhance designing, assembling and testing skill.	To complete project work.	Student centric learning is achieved.	PO3, PO4, PO5, PSO1, PSO2
5	Virtual Lab	Our Institute has access to MSBTE virtual lab.	To conduct Practical & Access simulation software anytime from anywhere.	To Conduct Practical's on simulation.	Student centric learning is achieved.	PO4

6.4 LABORATORIES: MAINTENANCE AND OVERALL AMBIANCE (10)

All the labs in the department are very well equipped with all the instruments / kits required to conduct every experiment given in the curriculum and beyond.

All equipment's / kits are well maintained in working condition.

Lab Assistants maintain the status of working & non-working equipment's regularly. Faulty equipment's are regularly serviced and well maintained.

Annual maintenance contract (AMC) of most of the equipment's \ kits are also given to concerned company.

1. PC maintenance is done by Inhouse Company only.
2. CRO, DSO, Signal Generator, Power Supply maintenance is done by APLAB Ltd.
3. Electronic Kits are serviced by the Companies such as Vision India, ARK Instruments, Digel Systems.
4. Canon Xerox cum Printer machines are serviced by PAM Systems & Solution.

6.5 AVAILABILITY OF COMPUTING FACILITY IN THE DEPARTMENT (10)

Sr. No	No Of Computer terminals	Students Computer Ratio	Details of Legal Software	Details of Networking	Details of Printers, Scanners etc.
1	140	1:1	Windows 10, Windows 11, MS Office, SCILAB, Virtual Box, EaglePCB, Python, MATLAB (campus license), , English Language Software – Orell	All computers and Printer cum Xerox cum scanner machines are on LAN.	04 - Canon Xerox cum printer cum scanner 04 - Canon Laser printers 02 – HP Laser printers

6.6 LANGUAGE LAB (10)

We have 20 computers installed with Orell interactive language learning software. It has the following features

1. Listen, speak, read & write (LSRD) method of language learning.
2. Excellent Student monitoring and evaluation.
3. Modularity in design.
4. Listen to recorded voices of native speakers.
5. Repeat and record.
6. Compare accent and pronunciations.

CRITERION 7	CONTINUOUS IMPROVEMENT	75
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7.1 ACTIONS TAKEN BASED ON THE RESULTS OF EVALUATION OF EACH OF THE POS AND PSOS (25)

POs Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Basic and Discipline specific knowledge			
PO 1	3	1.5	Students have partially achieved the desired knowledge outcomes.
1. Review curriculum. 2. Additional Tutorial / Mentoring to support weak students. 3. Remedial classes conducted.			
PO 2 : Problem analysis			
PO 2	3	1.41	Attainment level suggests that students are partially efficient to analyze the problems.
1. Real world examples and case studies are discussed in the classroom teaching. 2. Tutorials.			
PO 3 : Design/ development of solutions			
PO 3	3	0.88	Students are ineffective in design problems and develop effective solutions.
1. Design based assignments. 2. Indirect online learning methods.			
PO 4 : Engineering Tools, Experimentation and Testing			
PO 4	3	1.2	There is a significant gap in practical skills.
1. Incorporated the simulation-based learning to supplement hands-on experiments.			
PO 5 : Engineering practices for society, sustainability and environment			
PO 5	3	1.13	Limited awareness and application considering societal and environmental impacts.
1. Implemented service-learning projects that allow students to address community needs.			
PO 6 : Project Management			
PO 6	3	0.92	Students show limited ability to manage project planning, execution and monitoring.
1. Project based learning and Guest Lectures and Workshops from Industry Professionals. 2. Internship.			
PO 7 : Life-long learning			
PO 7	3	0.95	There is a need to develop learning mindset in students and habits that supports lifelong learning.
1. Self-directed learning opportunities such as MOOCs, Microprojects. 2. Mentorship and Coaching			

PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Design, verify and validate electronic functional elements for a variety of applications, with skills to interpret and communicate results.			
PSO 1	3	1.27	Students are partially meeting expectations in designing, verifying, and validating electronic functional elements.
1. Introduce more hands-on lab sessions and mini-projects focused on design, verification, and validation of electronic circuits and systems to bridge theory-practice gaps. 2. Include training or practice sessions on industry-standard simulation and testing tools (e.g., MATLAB, Multisim, Proteus, LTspice, etc.) to build verification and validation skills.			
PSO 2 : Exercise good programming practices employing low or high level languages on appropriate platforms.			
PSO 2	3	1.21	Students demonstrate basic programming knowledge, but there is limited application of good programming practices across different platforms and languages.
1. Reinforce programming fundamentals through remedial sessions, especially, targeting weak areas like syntax, logic building, and debugging. 2. Emphasize good coding practices—such as proper indentation, comments, modularity, and naming conventions—in all programming courses and lab evaluations.			

Sample Time-Table for Remedial Class

St. Xavier's Technical Institute, Mahim, Mumbai					
REMEDIAL Timetable A.Y 2025-26					
LR11	SEMESTER IV-III (DETE)				(WEF 01/09/2025)
Timings 3:30 Pm to 4:30 PM in their respective classes					
Class	MON	TUE	WED	THR	FRI
Vth SEM	GE(MM)	DCCN(MM)	MRFOC(RVG)	SMC(JN)	CS(RS)
IIIrd SEM A & B	LIC(VN)	PECOM(SG)	IE(VR)	DE(SNJ)	EMI(AP)
Ist SEM A and B	BE(AG)	M(SD)	M(SD)	FEN(SRB)	--
 Time-table Coordinator Mr. VinayKumar S. Nagalikar(Lecturer, DETE)			 H.O.D (DETE) Dr. V. R Rathod		

ST. XAVIER'S TECHNICAL INSTITUTE, MAHIM, MUMBAI					
REMEDIAL TIME-TABLE (ODD SEMESTER A.Y 2024-25) - DETE Department					
Timings for all is 3:30 pm to 4:30 pm w.e.f end of 1st Periodical test (WEF 24/08/24)					
SEMESTER V-A&B	MFOC(KHK)	DCCN(MM)	IM(SBG)	BCS(RS)	SMC(JN)
SEMESTER III-A&B	DE(SNJ)	IE(VR)	EMI(AP)	LIC(VN)	EMI(AP)
SEMESTER I-A&B	FEN(SRB)	BE(AG)	M(SD)	M(SD)	
 Time-table Coordinator VinayKumar S.Nagalikar(Lecturer, DETE)			 H.O.D (DETE) Dr. V. R Rathod		

Remedial Attendance Record

Semester	II, Mathematics - II	Academic Year	2025-26			
SPN.	Name of Student	Date / Sign				Remark
		4/2/24	12/2/24	24/2/24	11/3/24	
2503001	Aryan. manohar Shelke	Aryan	Aryan	Aryan	Aryan	
2503003	Sai . Sanjay . Mandre	Sai	Sai	Sai	Sai	
2503005	Aanya Rajesh Mhatre	Aanya	Aanya	Aanya	Aanya	
2503010						
2503011						
2503012	Nilesh Boris.	Nilesh	A	A	Nilesh	
2503014	Jonathan Bodi	Jonathan	Jonathan	Jonathan	Jonathan	
2503015						
2503018	Tirtha Anilkumar Doshi	Tirtha	Tirtha	Tirtha	Tirtha	
2503019	Jun Mukherjee	Jun	A	A	A	
2503021	Sahil Jotiram Ghodake	Sahil	A	A	Sahil	
2503022	Manthan Anil Ghorpade	M.A. Ghorpade	M.A. Ghorpade	M.A. Ghorpade	M.A. Ghorpade	
2503024	Riya Gupta	Riya	A	Riya	A	
29						
2503034	Saanya Sushil Kalsulker	Saanya	Saanya	Saanya	Saanya	
36						
37						

Signature of Faculty

17/2/2025
2:30 - 4:30 24/2/ 3/3/25 17/3/25 24/3/25

ST XAVIER TECHNICAL INSTITUTE, MAHIM, MUMBAI 400016.
(DCE) REMEDIAL LECTURE, ENGINEERING MATHEMATICS-I

DCE	day 1	day 2	day 3	day 4	day 5	day 6	day 7
2406001	Testimon	Testimon	Testimon	Testimon			
2406002	Vishinkar	Vishinkar	Vishinkar	Vishinkar			
2406003	Salun	Salun	Salun	Salun			
2406012	Salun	Salun	Salun	Salun			
2406013	Salun	Salun	Salun	Salun			
2406021	Salun	Salun	Salun	Salun			
2406023	Salun	Salun	Salun	Salun			
2406026	Salun	Salun	Salun	Salun			
2406035	Salun	Salun	Salun	Salun			
2406037	Salun	Salun	Salun	Salun			
2406040	Salun	Salun	Salun	Salun			
2406045	Salun	Salun	Salun	Salun			
2406056	Salun	Salun	Salun	Salun			
2406059	Salun	Salun	Salun	Salun			
2406060	Salun	Salun	Salun	Salun			
2406062	Salun	Salun	Salun	Salun			
2406010	Salun	Salun	Salun	Salun			
2406052	Salun	Salun	Salun	Salun			

Fig : Remedial Class Attendance

"BLOOD DONATION CAMP" arrange by NSS unit
of XTECH in association with S.L.RAHEJA HOSPITAL, NARAYANA HEALTH SRCC
CHILDREN'S HOSPITAL MUMBAI 25/02/2025



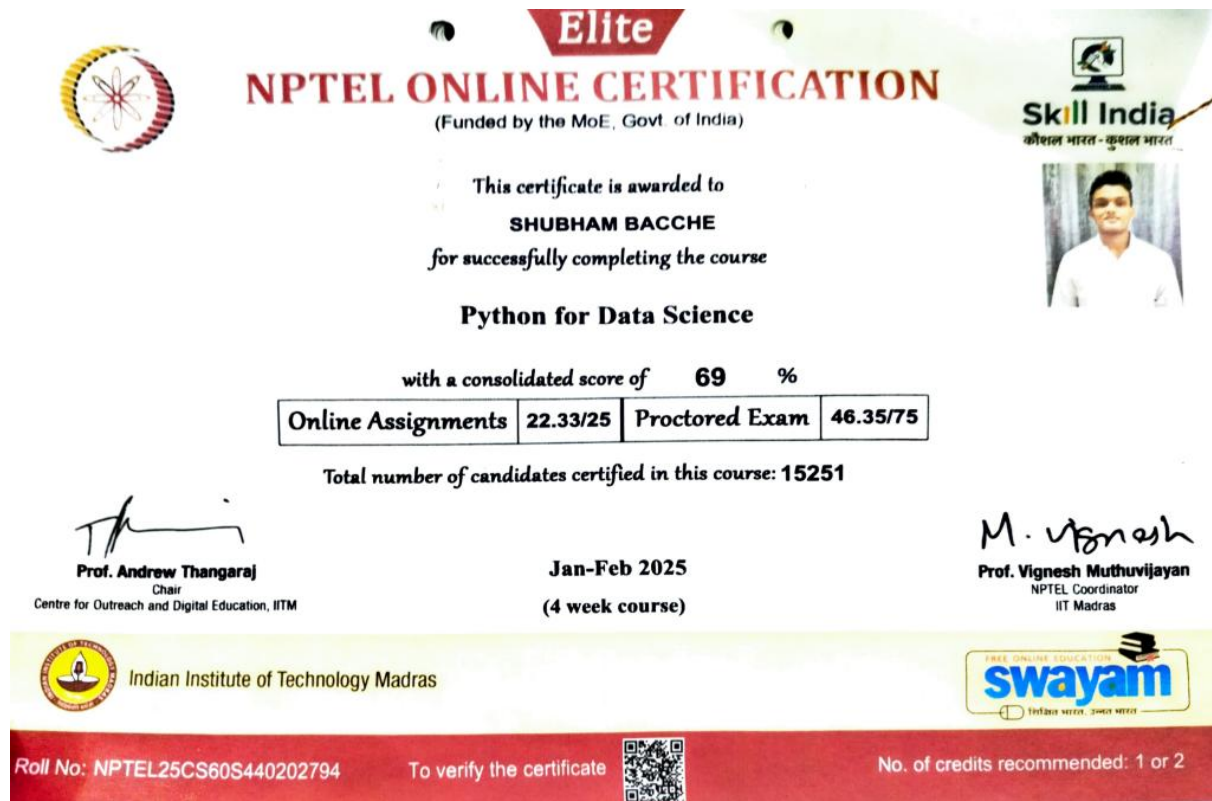


Fig : Self-directed learning opportunities such as MOOCs



Fig : Self-directed learning opportunities - Microprojects

7.2 IMPROVEMENT IN SUCCESS INDEX OF STUDENTS WITHOUT THE BACKLOG (10)

Items	Last year Graduate	Last year Graduate (LYG)	Last year Graduate (LYG) minus 1 batch	Last year Graduate (LYG) minus 2 batch
Academic Year	2022-2023	2021-2022	2020-2021	2019-2020
Year of Passing	Summer 2025 (22 series)	Summer 2024 (21 series)	Summer 2023 (20 series)	Summer 2022 (19 series)
Success Index (from 4.2.1)	0.26	0.16	0.16	0.48

7.3 IMPROVEMENT IN PLACEMENT AND HIGHER STUDIES (10)

Placement and Higher Studies	Last year Graduate	Last year Graduate (LYG)	Last year Graduate (LYG) minus 1 batch	Last year Graduate (LYG) minus 2 batch
Academic Year	2022-2023	2021-2022	2020-2021	2019-2020
SPN Series	Summer 2025 (22 series)	Summer 2024 (21 series)	Summer 2023 (20 series)	Summer 2022 (19 series)
Placement Index $[(1.25 * X) + Y + Z] / N$:	0.9	0.935	1	1

7.4 IMPROVEMENT IN ACADEMIC PERFORMANCE IN FINAL YEAR (10)

Academic Performance	CAY	CAYm1	CAYm2	CAYm3
Academic Year	2024-2025	2023-2024	2022-2023	2021-2022
SPN Series	24 series	23 series	22 series	21 series
API = $X*(Y/Z)$	4.06	3.82	3.43	3.97

7.5 INTERNAL ACADEMIC AUDITS TO REVIEW COMPLETE ACADEMICS & TO IMPLEMENT CORRECTIVE ACTIONS ON CONTINUOUS BASIS (10)

Items	2025-26	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)
Internal Academic Audits	2	2	2	2

Minutes of IMC Meeting

Department: DETE
 Date: 28/04/2025
 Time: 9:00 AM
 Venue: HOD Cabin
 Chairperson: Head of Department (HOD)

Members Present

All faculty members signed on next page were present for the meeting.

Agenda of the Meeting

1. Verification and checking of Academic Record Books of faculty members.
2. Discussion regarding improvements in academic record keeping.

Proceedings of the Meeting

The meeting of the Internal Monitoring Committee was conducted under the chairmanship of the Head of Department on 28th April 2025 at 9:00 AM. During the meeting, the Academic Record Books of all faculty members were checked and verified by the committee. The committee reviewed the entries related to:

- Course teaching plan
- Attendance records
- Assessment records
- Syllabus completion status
- Practical records
- Teaching aids and academic activities

The committee observed that the faculty members had maintained the academic records properly. Minor corrections and updates, wherever required, were suggested to the concerned faculty members. The HOD instructed all faculty members to ensure timely updating of academic records and maintain accuracy in documentation.

Conclusion

The meeting concluded with a vote of thanks to the Chair.

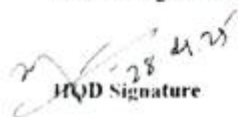

 HOD Signature

Fig : Minutes of IMC Meeting

7.6 NEW FACILITY CREATED IN THE PROGRAM (10)

Items	2025-26	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)
New Facility Created	IoT Lab Setup	Smart Boards in Classrooms	Computer Center (CC1) Lab Setup	AI Lab Setup

**Fig : IoT (CC2) Lab Setup done in 2025-26**



THE IT WORLD
To,

Kanti Suthar : +91 9987661909

Shop No 79, Rajesh Building,
2nd Floor, Opp. Lamington Road
Police Station, Grant Road East,
Mumbai - 400007

022 4881 7663 /7664
897671 6061 /6062 / 6063 /6064
sales@theitworldindia.com
27AEWPL7633L1ZM
www.theitworldindia.com

Date: 01/09/2025

The Principal / Director
St. Xavier Technical Institute
Mahim Causeway, Opp. Raheja College
Mahim (West), Mumbai - 400016

Subject: Donation of 20 Desktop Computers for Institutional Use

Dear Sir/Madam,

We, THE IT WORLD, are pleased to extend our support towards your esteemed institute's educational and technical initiatives. As part of our CSR and goodwill contribution, we hereby declare that we are donating 20 Desktop Computers to St. Xavier Technical Institute for academic and institutional purposes.

Details of the donated items are as follows:

- Model: DELL Tiny PC
- Processor: Intel Core i5 - 9th Gen
- Memory: 32 GB RAM
- Storage: 512 GB SSD with WIFI
- Accessories: Dell Wired Keyboard & Mouse
- Monitor: Dell 22" LED (Model: SE2225HM)
- Warranty: 1 Year Standard Warranty
- Quantity: 20 Units

We confirm that these desktops are provided free of cost as a donation and no commercial transaction has been involved. This declaration is issued at your request for your audit and record-keeping purposes.

We trust these systems will support your institution's academic mission and technological development. Thanks.

Yours faithfully,



For THE IT WORLD
Authorized Signatory)
(Kantilal Suthar)

Fig : Computers Sponsored by The IT World Shop for IoT Lab Setup

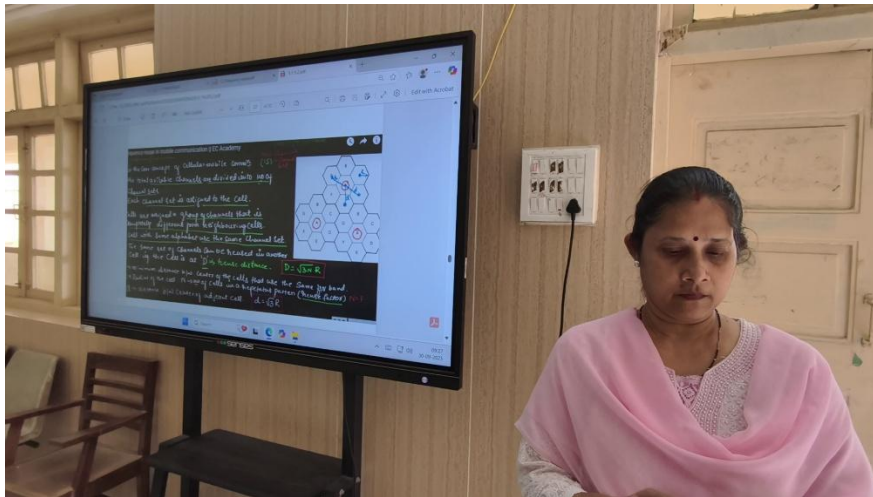
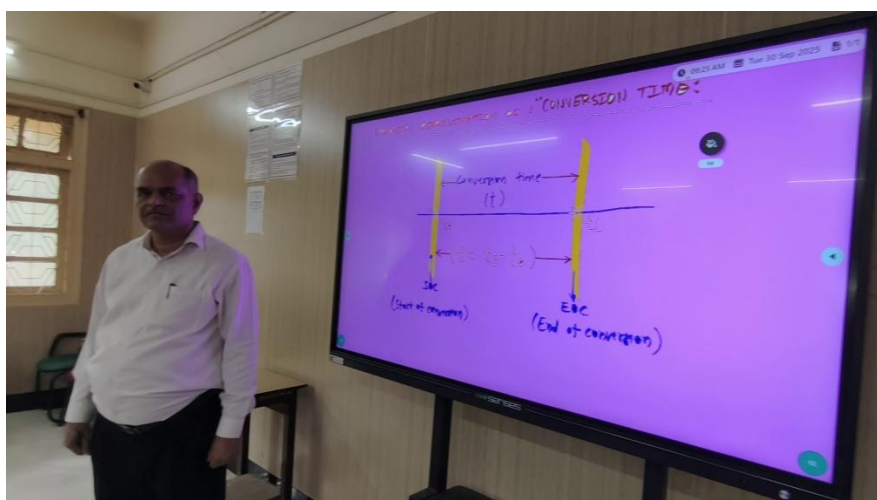
**Fig : LR-11 Smart Board****Fig : LR-12 Smart Board****Fig : LR-13 Smart Board**



Fig : Computer Center (CC1) Lab Inauguration 2023-24

CRITERION 8	STUDENT SUPPORT SYSTEMS	50
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8 STUDENT SUPPORT SYSTEMS (50)**8.1 MENTORING SYSTEM TO HELP AT INDIVIDUAL LEVEL (10)**

Mentoring System	YES
Type of Mentoring	Overall Development
Number of faculty mentors	13
Number of students per mentor	30-35students/faculty
Mentor	

Department Mentors

Name of Class	Name of Mentor
Chief Mentor	Dr. Vijay Rathod
Mentor of Class 1st year – A div SPN 2403001-30	Mrs. Sanchita Datta
Mentor of Class 1st year – A div SPN 2403031-60	Mr. S.R.Borkar
Mentor of Class 1st year – B div SPN 2403061-90	Mr. Abhijit Patil
Mentor of Class 1st year – B div SPN 2403091-118	Mr. A. Gurav
Mentor of Class 2nd year – A div SPN 2303001-59	Mrs. Surbhi Gaoshinde
Mentor of Class 2nd year –A &B div SPN 2303060-114	Mr. Vinay Nagalekar
Mentor of Class 2nd year – B Div SPN 2303116-171	Mr. R.V.Gheware
Mentor of Class 3rd year – A div SPN 2203001-51	Dr. Mrs. Janani Natrajan
Mentor of Class 3rd year – A div SPN 2203056-114	Mr. Rakesh Saroj
Mentor of Class 3rd year – B div SPN 2203115-172	Dr. Mahesh Munde
Mentor of Class 3rd year – B div SPN 2203173-2203109	Mr. Shekhar Jirapure

Each mentor meets the allotted group of students in an informal environment over a cup of tea about once in a month, to involve the students on a free discussion about

- Class, Laboratory
- Teaching of different subjects
- Teaching Human Values, behavior in class, labs and among groups
- Peer Cooperation And Peer Pressure handling
- Motivation
- Time Management

In case, any improvement is needed in any aspect, the same is reported to the Chief Mentor, who takes up the matter with the concerned person. The system works quite well, as the students are given an opportunity to express the difficulties faced by them.

Efficiency of the System: St. Xavier's Technical Institute, Mahim, Mumbai

- The mentoring system developed by the Institute has been effective considering different parameters.
- The involvement of students has increased, like class work attendance, participation in cultural activities etc.
- Teachers are also becoming more responsive to the learner needs day by day, due to personal interaction with the students on regular basis.

Mentoring Attendance Record					Minutes of meeting of Student Mentoring conducted on 22/1/2025				
S. No.	II	Academic Year	2025 - 26		Topics Discussed:				
SPN	Name of Student	Date / Sign		Remark	1. Review of Previous Semester Results				
2503001	Aryan Manohar Shelke	22/1/25 Aryan	22/1/25 Aryan	22/1/25 Aryan	• Discuss individual performance (strengths & weak areas) • Identify subjects with low scores • Understand challenges faced (academic or personal) • Suggest improvement strategies				
3	Sai Sanjay Mandre	22/1/25 Sai	22/1/25 Sai	22/1/25 Sai	2. Discussion on Current Semester Subjects				
4	Prathmesh Santosh Shinde	22/1/25 Prathmesh	22/1/25 Prathmesh	22/1/25 Prathmesh	• Overview of subjects and syllabus • Study planning and time management tips • Clarify doubts related to coursework				
2503005	Aarya Rajesh Mhatre	22/1/25 Aarya	22/1/25 Aarya	22/1/25 Aarya	3. Preparation for First Periodical Test				
6					• Importance of regular study and revision highlighted • Guidance provided on exam preparation strategies • Tips on time management and effective study techniques • Encouraged students to clarify doubts and practice previous question papers				
7	Pranav Desai	22/1/25 Pranav	22/1/25 Pranav	22/1/25 Pranav	4. General Grievances				
9					• Academic concerns (teaching, assignments, exams) • Infrastructure or facility issues • Personal or well-being concerns • Provide guidance or escalate issues if needed				
10					5. Action Plan				
11					• Set measurable goals for each student • Provide resources/support (notes, mentoring, counseling) • Schedule follow-up meetings				
12	Nilesh Bhatik	22/1/25 Nilesh	22/1/25 Nilesh	22/1/25 Nilesh					
14	Tanishk Badi	22/1/25 Tanishk	22/1/25 Tanishk	22/1/25 Tanishk					
15									
16									
17	Johin Oshan Colaco	22/1/25 Johin	22/1/25 Johin	22/1/25 Johin					
18	Tietha Anilkumar Doshi	22/1/25 Tietha	22/1/25 Tietha	22/1/25 Tietha					
19	Dr. Milken Fernandez	22/1/25 Dr. Milken	22/1/25 Dr. Milken	22/1/25 Dr. Milken					
20									

Fig : Sample mentoring attendance record with MoM

8.2 FEEDBACK ANALYSIS AND REWARD/ CORRECTIVE MEASURES TAKEN, IF ANY (10)

Feedback collected for all courses: YES/NO; Specify the feedback collection process; Average Percentage of students who participate; Specify the feedback analysis process; Basis of reward/ corrective measures, if any; Indices used for measuring quality of teaching & learning and summary of the index values for all courses/teachers; Number of corrective actions taken.

A. METHODOLOGY BEING FOLLOWED FOR FEEDBACK COLLECTION, ANALYSIS AND ITS EFFECTIVENESS (5)

Methodology for Feedback Collection, Analysis, and Effectiveness

The institute follows a structured methodology for collecting and analyzing feedback from various stakeholders, including students, faculty, alumni, employers, and industry experts. The primary objectives of this feedback system are to enhance academic quality, improve training programs, and ensure continuous development in line with NBA accreditation requirements.

Feedback Collection Process

- **Student Feedback:** Collected at the end of each semester to evaluate teaching methodologies, course content, infrastructure, and overall learning experience.
- **Faculty Feedback:** Faculty members provide input on curriculum effectiveness, teaching resources, and student engagement.
- **Alumni Feedback:** Former students share insights on the relevance of the curriculum, career opportunities, and industry preparedness.
- **Employer Feedback:** Recruiters and industry representatives provide feedback on graduates skillsets, technical knowledge, and workplace readiness.
- **Parent Feedback:** Parents opinions on academic progress, student support services, and career development initiatives are considered.

Analysis and Implementation

- The collected feedback is analyzed using quantitative and qualitative methods to identify areas of improvement.
- Reports are generated and shared with the academic council and department heads.
- Corrective measures such as curriculum revision, faculty development programs, and infrastructure enhancements are implemented based on the feedback.
- Follow-up surveys are conducted to evaluate the effectiveness of the improvements made.

Effectiveness of Feedback System

- Helps in curriculum enhancement to meet industry standards and accreditation benchmarks.
- Identifies gaps in teaching methodologies and facilitates faculty training programs.
- Strengthens industry-institute collaboration for better placement and internship opportunities.
- Improves student satisfaction and academic performance through continuous assessment.

The systematic approach to feedback collection, analysis, and implementation ensures continuous improvement and academic excellence, aligning with NBA accreditation criteria.

- Feedback form

ST. XAVIER'S TECHNICAL INSTITUTE,
Mahim, Mumbai - 400 016

DETE DEPARTMENT
ALUMNI FEEDBACK

Dear Alumni,

Kindly furnish the details as required for NBA documentation. Put tick mark () as per the attainment of POs, PSOs and PEOs in your field (1 is for lowest and 5 is for highest).

NAME OF ALUMNI: Aruya Sandeep Behere

YEAR OF PASSING FROM XTECH 2024-2025

NAME OF COMPANY/FIRM (WITH ADDRESS): _____

TYPE OF EMPLOYMENT: EMPLOYER(), EMPLOYEE(), SELF-EMPLOYED(), STUDENT(✓)

DESIGNATION/POSITION HELD: _____

CONTACT NO. 9702970649 EMAIL ID: beherearuya@gmail.com

NO.	PO STATEMENT	Strongly Agree 5 m	Agree 4 m	Neutral 3 m	Disagree 2 m	Strongly Disagree 1 m
PO1	I am able to apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering Problems.		✓			
PO2	I am able to identify and analyze well-defined engineering problems using codified Standard methods.		✓			
PO3	I am able to design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs...	✓				
PO4	I am able to apply modern engineering tools and appropriate technique to conduct standard tests and measurements.		✓			
PO5	I am able to apply appropriate technology in context of society, sustainability, environment and ethical practices.			✓		

PO6	I am able to Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well defined Engineering activities.		✓			
PO7	I am able to analyse individual needs and engage in updating in the context of technological changes.	✓				
PS01	I am able to design, verify and validate electronic, functional elements for a variety of applications, with skills to interpret and communicate results.			✓		
PS02	I am able to exercise good programming practices employing low- or high-level languages on appropriate platforms.		✓			
PE01	To produce diploma holders who have the ability to demonstrate technical competence in the fields of Electronics and Tele communication engineering and develop solutions to the problems.	✓				
PE02	To produce diploma holders who would be able to take individual responsibility and to work as a part of a team towards the fulfillment of both individual and organizational goals.		✓			
PE03	To prepare the students to engage in professional development through self-study, graduate and professional studies in engineering, management and research.	✓				

REMARKS IF ANY:

NAME AND SIGNATURE: Aruya Sandeep Behere *[Signature]*

DATE: 10/07/25

NOTE: 1) Program outcomes POs and Program Specific outcomes PSOs (what he/she will continue to do at the entry point of Industry soon after completion of Diploma).
2) Programme educational objectives PEOs (what he/she will continue to do even after 3-5 years of working in the Industry).

Fig : Sample Alumni feedback

Category	Feedback Question	Rating (1-5)	Comments/Suggestions
Personal Information	Student Name		
	Course Name		
	Year of Study		
	Semester		
Course Content	How relevant is the course content to your learning goals?	1 2 3 4 5	
	How well-structured was the course syllabus?	1 2 3 4 5	
	Were the course objectives clearly defined?	1 2 3 4 5	
Teaching Methodology	How effective were the teaching methods used in the course?	1 2 3 4 5	
	How would you rate the classroom and learning environment?	1 2 3 4 5	
	Were the teaching materials helpful and up to date?	1 2 3 4 5	

	How well did the faculty engage with students during the course?	1 2 3 4 5	
Infrastructure and Facilities	How would you rate the classroom and learning environment?	1 2 3 4 5	
	Was the availability and quality of lab facilities satisfactory?	1 2 3 4 5	
	Was the library and online resources helpful for your studies?	1 2 3 4 5	
Assessment and Evaluation	How fair and transparent were the assessments and grading system?	1 2 3 4 5	
	Was the feedback provided on assignments and exams helpful in improving your understanding?	1 2 3 4 5	
Overall Experience	How satisfied are you with the overall quality of the diploma course?	1 2 3 4 5	
	What are the strengths of the course?		
	What areas need improvement?		

Students Signature: _____

Date: _____

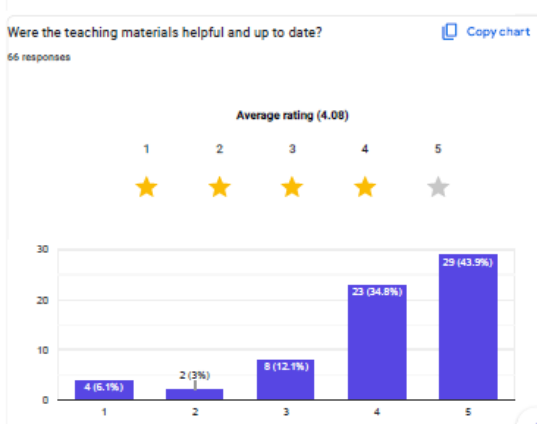
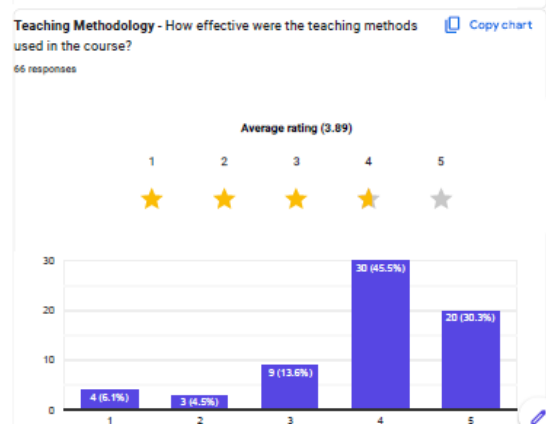
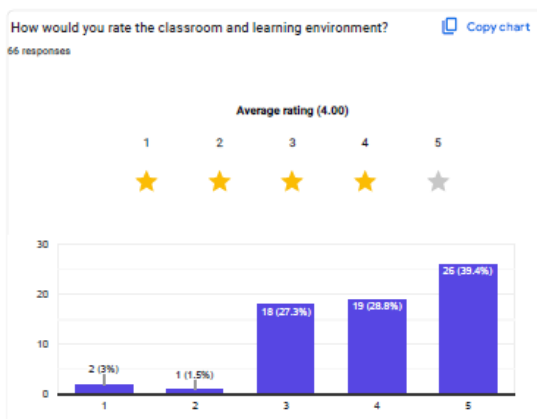
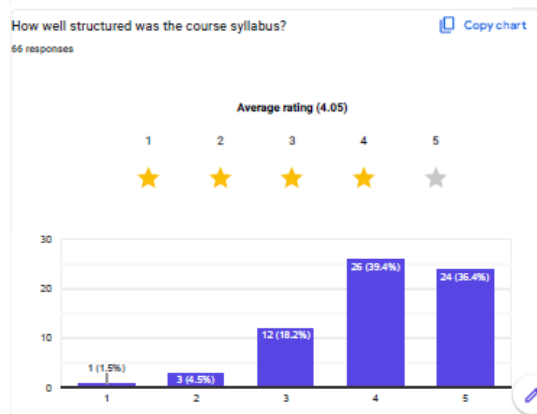
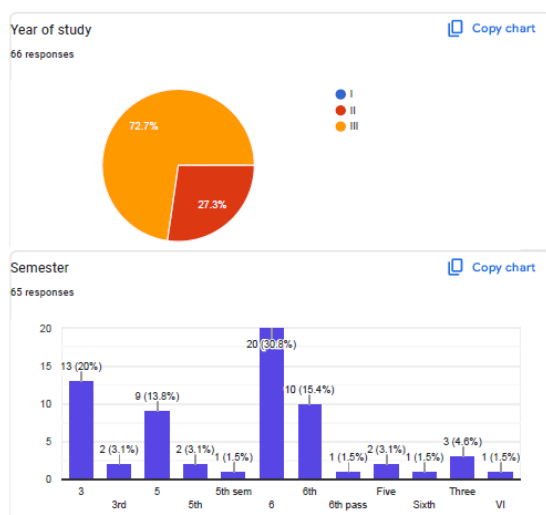


Fig : Students feedback

ST. XAVIER'S TECHNICAL INSTITUTE
MAHIM, MUMBAI 400 016.

PARENT'S FEEDBACK FORM

Parents are requested to give their feedback on the following features / facilities provided by the Institute to their ward. Please rate each feature and assign ✓ tick mark according to the following response scheme.

Parent's name: Anita Tamilarsan

Ward's name: Tejaswini Tamilarsan

Class & SPN: 3rd year & 2403117

Academic Year: 2026 - 27

Parent's Contact No. 9967238907 Email ID: anitaaxasan1315@gmail.com

INSTITUTE VISION
To Nurture the Joy of Excellence In a World of High Technology.

INSTITUTE MISSION

1. Interaction with Industry
2. Continuous Staff Training and
3. Development of Quality of Life of Staff and Students

DEPARTMENT VISION
To become a centre of excellence and to produce high quality, self-motivated, creative and ethical diploma engineers and technologists, contributing effectively to universal engineering and contemporary education.

DEPARTMENT MISSION

- ❖ To prepare students of the Department of Electronics and Communication Engineering for a brilliant career/entrepreneurship along with the development of knowledge, skills, attitude and teamwork ideal for a professional through the designed programme.
- ❖ The faculty of the Department continually seeks to enhance their knowledge to competently lead and empower students.
- ❖ To impart high quality engineering education and ethics to the student & to provide the best facilities, infrastructure and environment to the student and faculty members, creating an ambience conducive to excellence in technical education research.

Parent's signature: [Signature]

Any suggestions: More computer lab, more library and more sports facilities

No	Features/Facilities	Poor	Satisfactory	Good	Very good	Excellent
15	Free college responses and communication from					✓
14	Sports facilities					✓
10	Discipline practices				✓	
9	Personality Enhancement of students					
8	Campus' student's room' etc. Subsidy services like Bank'			✓		
5	Internet' Computer' etc. Learning resources such as library'				✓	
6	(Laboratory' Class room etc) Infrastructure Facilities				✓	
2	Activities for participation in extra curricular. Encouragement provided to students					✓
4	Faculty Competence and commitment of					✓
3	Examination conducting process					
5	Progress System of monitoring students					✓
1	Admission Process				✓	
10	21					

Directions: Assign tick mark ✓ wherever applicable

Fig : Sample Parents feedback

B. RECORD OF CORRECTIVE MEASURES TAKEN (5)

Record of Corrective Measures Taken

- **Curriculum Revision:** Based on industry feedback, new elective courses were introduced, and outdated topics were replaced with emerging technologies.
- **Faculty Development Programs:** Faculties were encouraged to attend workshops ,FDPs, to enhance teaching methodologies and incorporate new pedagogical tools.
- **Infrastructure Improvements:** Upgraded laboratory equipment, added smart classrooms, and enhanced e-learning resources based on student and faculty feedback.

8.3 FEEDBACK ON FACILITIES (5)

A. Student feedback on facilities, analysis and corrective action taken (5)

The institute follows a structured feedback collection mechanism to assess student satisfaction with the available facilities, identify areas for improvement, and implement necessary corrective measures to enhance the learning environment.

Feedback Collection Process

- **Online Feedback Forms:** Students submit structured feedback forms covering infrastructure, classrooms, laboratories, library and IT facilities.
- **Suggestion Boxes & Open Forums:** Students can share their concerns anonymously through suggestion boxes or during open discussion forums.
- **Departmental Feedback Meetings:** Periodic meetings are conducted where student representatives convey facility-related concerns.
- **Direct Interaction with Administration:** Students can communicate grievances directly with faculty members, the Head of Department, or the Principal.

Analysis and Implementation

- The collected feedback is categorized and analyzed to determine key concerns related to infrastructure, safety, academic resources, and overall student experience.
- A detailed report is generated and reviewed by the management and relevant departments.
- Action plans are developed to address critical issues with defined timelines for implementation.
- Periodic follow-ups ensure that the implemented measures are effective and meet student expectations.

Corrective Measures Taken

- **Infrastructure Enhancement:** Upgraded classroom seating, added more digital learning resources.
- **Laboratory Improvements:** Updated lab equipment, enhanced software access, and improved safety measures.
- **Library & Digital Resources Expansion:** Increased book collections, extended library hours, and enhanced access to e-resources.
- **IT & Internet Facilities Strengthening:** Increased Wi-Fi speed, expanded network coverage, and implemented better student support systems for IT-related concerns.
- **Security & Safety Measures:** Enhanced campus security with additional CCTV surveillance .

Facilities addition / upgradation

Items	2025-26	2024-25 (CAY)	2023-24 (CAYm1)	2022-23 (CAYm2)
New Facility Created	IoT Lab Setup	Smart Boards in Classrooms	Computer Center (CC1) Lab Setup	AI Lab Setup

STUDENT FEEDBACK FORM ON INSTITUTE FACILITIES

 **ST. XAVIER'S TECHNICAL INSTITUTE**
 Mahim-Causeway, Mahim, Mumbai - 400016
STUDENT FEEDBACK FORM ON INSTITUTE FACILITIES

This questionnaire is intended to collect information relating to your satisfaction towards facilities and services provided for creating conducive atmosphere for teaching and learning. The information provided by you will be kept confidential and will be used as important feedback for quality improvement of the programme of studies/ Institution.

Department: DETE **Class:** 3rd year
SPN: 2303159

Directions: For each item please indicate your level of satisfaction with the following statement by choosing a score between 1 and 5.
 (1 – Strongly disagree, 2 – Disagree, 3 – Not Sure, 4 – Agree, 5 – Strongly Agree)

1. The prescribed books/reading materials are available in the library. 1 2 3 ④ 5
2. Reading room and common room are available in the college building. 1 2 ③ 4 5
3. Available reading space in library is satisfactory. 1 2 3 4 ⑤
4. The library staff are cooperative and helpful. 1 2 3 ④ 5
5. Photocopying facility in the library is available and satisfactory. 1 2 3 4 ⑤
6. Internet facilities are available in the campus. ① 2 3 4 5
7. Online educational resources are available and accessible. 1 ② 3 4 5
8. The office staff in the department are helpful. 1 ② 3 4 5
9. Results and attendance records are displayed on time. 1 2 ③ 4 5
10. Toilets/washrooms are hygienic and properly maintained. 1 2 3 ④ 5
11. Clean drinking water is available in the department and on the campus. 1 2 3 4 ⑤
12. Grievances/problems are redressed/solved well in time. 1 2 3 ④ 5
13. The functioning of the placement cell(s) in the college is satisfactory. 1 2 3 4 ⑤
14. Equipment in the labs are in working condition. 1 2 3 ④ 5
15. Are you provided with adequate quantity of equipment for carrying out Lab Activities? 1 2 ③ 4 5
16. The campus is green and eco-friendly. 1 2 3 4 ⑤
17. The classrooms are clean and well maintained. 1 2 3 4 ⑤
18. The campus has adequate power supply. 1 2 3 4 ⑤
19. How do you rate the health care facilities? 1 2 3 ④ 5
20. Cleanliness and maintenance of college premises. 1 2 3 4 ⑤

Any other comment(s):

Mobile No 724612006 Vikram Gupta 
 Name & Signature of Student

Fig : Students feedback on Institute Facilities

Learning with Multi-media:

- LCD projectors and smart boards are mounted in each classroom and some laboratories for enhanced Multimedia Learning.

Classroom Presentations:

- Every course allows students to prepare and present any topic from the curriculum.
- Presentation on technical topics (AS, PP, Experimental Studies, CS).

Technical Symposiums:

- Annual events such as NEXTECH (National Level Techfest), technical paper presentation, poster presentation, debate etc.
- Motivate students to participate in workshops.
- Motivate students to participate in inter-college events for technical paper presentation, project exhibitions and quiz competition.
- **The IETE and ISTE Student Chapter / Club:** Being a diploma institute, we emphasize on the importance of communication and technical skills required to run and solve the most complicated problems. The IETE and ISTE student Club strive to organize uniquely designed technical events.
- **Green Club:** The Green Club (GC) has been established to provide the values of environmental Stewardship among the students. It aims to work towards an eco-friendly environment in and around colleges and education institutions by efficient use of resources like water, waste, energy and circularity.
- **Girl's Welfare Committee:** Girl's Welfare Committee works on Promote Gender Equality, Ensure Safety and Security, Provide Emotional and Mental Health Support, Awareness and Education and overall health and hygiene.
- **IEDSSA:** Inter Engineering diploma student's sports association student center help and motivate students to participate in inter college sport events, which help them to boost the confidence, sportsmanship, competitive approach.



ST. XAVIER'S TECHNICAL INSTITUTE

Govt. Aided Autonomous Minority Institute, Approved by A.I.C.T.E. New Delhi
Mahim Causeway, Mumbai 400 016. Mobile : 85917 62763
E-mail : office@xaviertech.ac.in • Website : xaviertech.ac.in

MSBTE CODE - 175 DTE CODE - 3023

IO/025/GC/040

August 13, 2025

To:

All Staff & Students

Sub : Formation of GREEN CLUB

The Green Club (GC) will be established to provide the values of environmental Stewardship among the students. It aims to work towards an eco-friendly environment in and around colleges and education institutions by efficient use of resources like water, waste, energy and circularity. The following will be the members of the Green Club :

1. Mrs. Surbhi Gaoshinde, Lecturer (EXTC): Faculty Coordinator
2. Mrs. Avani Chougule, Lecturer (DCE) : Faculty Coordinator
3. Mr. Dev Vats (EXTC) : President (Youth)
4. Mr. Chalak Sachin Jaywant (EXTC) : Vice President (Youth)
5. Mr. Rane Bhagyaraj (DCE) : Vice President (Youth)
6. Mr. Shaikh Ameen (EXTC) : Campaign Coordinator (Youth)
7. Ms. Bhanap Rucha (DCE) : Campaign Coordinator (Youth)
8. Mr. Smit More (EXTC) : Documentation Coordinator (Youth)
9. Ms. Janhavi Rao (EXTC) : Documentation Coordinator (Youth)
10. Mr. Atharva Shivekar (DCE) : Documentation Coordinator (Youth)
11. Ms. Riya Yadav (DCE) : Documentation Coordinator (Youth)

The formation of Green Club will primarily focus on coordinating with youth in the College to support environmental activities and projects within college and communities as extension services. Under this program, the aim is to empower students to participate in and take up meaningful environmental activities and projects. Green Club would be imbibed in college-level curricular activities to ensure effective implementation and act as a platform to develop sustainable lifestyles, knowledge, and leadership skills.

I greatly appreciate your willingness to serve St. Xavier's Technical Institute through your membership on this committee.

Regards,

Dr. S. B. Ghungrad
Principal



- cc: 1) Fr. Dr. John Rose, S.J., Director
2) Head Of Department
3) General Office



Fig : Guest Lecture on global warming under Green cell

A initiative to make campus 0 plastic zone and segregate E waste at St. Xavier's Technical Institute, Mahim



The IETE and ISTE Student Chapter

"St. XAVIER'S TECHNICAL INSTITUTE MAHIM -
"WON BEST ISF AWARD "for the year 2024-25 ,
award trophy received by XTECH ISF MEMBERS

**Antenna workshop under ISTE and IETE**



IO/024/GWC/078

30th October 2024

To:
All Staff

Sub : Girls Welfare Committee for Students & Staff.

In consultation with the rules of MSBTE and AICTE, the following staff members are continuously appointed as members for the 'Girls Welfare Committee' in our Institute.

- | | | |
|--|---|-------------------------|
| 1. Mrs. R. Sumati, Librarian | : | Chairman |
| 2. Mrs. Sanchita Datta, Lecturer (Sr. Scale) | : | Member |
| 3. Mrs. Surbhi Gaoshinde, Lecturer | : | Member |
| 3. Ms. Dipti Mestry, COE | : | Member |
| 5. Mrs. Darshana Jadhav, Lab Assistant | : | Member |
| 6. Mrs. Sonali Salian, Sr. Clerk | : | Member |
| 7. Mrs. Janani Natarajan, Lecturer | : | Member Secretary |

I greatly appreciate your willingness to serve St. Xavier's Technical Institute through your membership on this committee.

Regards,


Dr. S. B. Ghungrad
 Principal



cc : 1. Director
 2. Head Of Department
 3. General Office



IEDSS - sports



8.4 CAREER GUIDANCE, TRAINING, PLACEMENT (20)

The Institute has created the following facilities for career guidance:

- Training & Placement Cell where the TPO provides guidance for training and post diploma placements.
- Vocational Training – Four to six week training in the Industry after second year of course for industry exposure and enhancement of practical knowledge.
- Industrial Training - From the academic year 2024-2025 final year students are sent for internship for the entire 6th semester (20 to 24 weeks) as per NEP and MSBTE guidelines.
- Companies are invited for campus placements.
- Faculty members also guide and counsel the final year students related to the electives, preparation of competitive exams, and admission in higher education.
- After successful completion of training, each student will give the presentation on training performance by him/her and each vocational training (VT) / Internship report is accessed by an industry expert as an external examiner.



ST. XAVIER'S TECHNICAL INSTITUTE
MAHIM, MUMBAI - 400 016.

IO/024/TPO/058A

September 19, 2024

Sub : Training & Placement Cell.

The purpose of the cell :

- To train the students to be competent enough for recruitment and to facilitate the students to choose the right career or assist the students in finding the job.
- Conduct recruitment activities to assist students in obtaining placement.
- Identify the needs and expectations of the companies to assist them in recruiting the most suitable candidates.
- Maintain and regularly update the database of the students.
- Establish a professional relationship between students, alumni, and the recruitment community.
- Provide company specific training in technical and aptitude and prepare the students with the best tips to crack the interview.
- Encourage students to enhance their technical knowledge, communication skills, and soft skills to glorify their resume.

In consultation with the rules of MSBTE and AICTE, the following staff members are appointed as members for the Training & Placement Cell (TPO).

- | | |
|--|-------------------------------|
| 1. Dr. Janani Natarajan, Lecturer (Sel.Grd.) | : In-charge |
| 2. Mr. Vinaykumar Nagalikar, Lecturer (Sr.Scale) | : Staff Representative (DETE) |
| 3. Mr. Houston D'Souza, HOD (Computers) | : Staff Representative (DCE) |
| 4. Mr. Parth Banote (III Year SPN No. 2203080) | : Student Representative |
| 5. Ms. Manasvi Patil (III Year SPN No. 2203158) | : Student Representative |

I greatly appreciate your willingness to serve St. Xavier's Technical Institute through your membership in this Cell.

Regards,


Dr. S. B. Ghungrad
Principal



- cc : 1. Fr. John Rose, S.J., Director
2. Head Of Department(s) (DETE & DCE)
3. General Office



ST. XAVIER'S TECHNICAL INSTITUTE, MAHIM, MUMAI
MAHIM CAUSEWAY, MAHIM

List of activities conducted under IIIC for A.Y 2025-26

1. Industrial visit to Doordarshan kendra Worli for **first Year DETE** students on 21st August 2025 by the coordinator: Vinaykumar Nagalikar, and faculty Mrs Sanchita Datta and Mr. Abhijit Patil.
Industrial visit to Doordarshan kendra Worli for **first Year DCE** students on 30th January 2026 by the Mr. Arjun Singh, Mrs Avani Chogule and Mr. Karthi Devendra
2. Antenna Workshop was conducted on 21-22 August 2025 for Final Year students by Dr. Mahesh Munde, Mrs Surbhi Gaoshinde and Mr. Anil Gurav .
3. Automation EXPO visit for 2nd year students on 14 Aug 2025 at BEC Goregoan by Dr. V.R Rathod, Mr. Vinay Nagalikar,
4. IBM skill build digital awareness for 2nd Year on December 16, 2025 by Dr. V R Rathod and R V Gheware
5. Five MoU's were signed last year by Mr. Vinay Nagalikar. The MoUs are active till September 2027
6. MoU signed between BOAT(Board of Apprenticeship Training) on 27 June 2025 for Final Year students by Dr. Janani Natarajan
7. All the faculty members regularly perform internship monitoring visits once per month and students progress is updated to TPO.
8. Visit to centre of excellence, IDEA and INTEL - Unnati lab Shah and Anchor college of engineering for first year students on 7 August 2025 by Mr. Sanjiv Borkar, Mrs. Sanchita Datta and Mr Arjun Singh

8.5 ENTREPRENEURSHIP CELL/TECHNOLOGY BUSINESS INCUBATOR (5)

Entrepreneurship Cell/Technology Business Incubator

The institute has established an Entrepreneurship Cell (E-Cell) and Technology Business Incubator (TBI) to foster innovation and entrepreneurial mindset among students. This initiative aligns with NBA accreditation requirements by promoting self-reliance, industry collaboration, and the development of start-ups.

Objectives of Entrepreneurship Cell and TBI

- To cultivate an entrepreneurial mindset among students by providing them with mentorship, funding opportunities, and networking platforms.
- To facilitate the transformation of innovative ideas into viable business models through structured incubation support.
- To enhance students business acumen by organizing industrial visits, market analysis, and interactive sessions with successful entrepreneurs.
- To encourage research, patent filing, and technology-driven startups in emerging fields such as Artificial Intelligence, IoT, and sustainable development.
- To collaborate with venture capitalists, angel investors, and government funding agencies to provide financial support for startups.

Initiatives & Activities

- Startup Incubation Support: Providing infrastructure, mentoring, and seed funding to student startups through TBI.
- Entrepreneurial Development Programs (EDP): Conducting workshops on business model canvas, startup funding, legal aspects, and business development strategies.
- Industry & Market Exposure: Organizing visits to established businesses, industrial plants, and incubation centers to help students understand business operations.
- EXPO and Business Showcases: Hosting exhibitions and competitions where students can pitch their startup ideas to investors and industry leaders.
- Skill Development & Certification Programs: Offering certified courses in entrepreneurship, digital marketing, finance, and technology commercialization.

Impact & Outcome

- Increased student participation in entrepreneurship and innovation-driven projects.
- Establishment of student-led startups and industry collaborations.
- Enhanced employability and self-reliance through hands-on business experiences.
- Contribution to the local and national startup ecosystem by launching market-ready products and services.

By integrating entrepreneurship and business incubation into the academic framework, the institute ensures that students are equipped with the necessary skills to become successful entrepreneurs and industry leaders, in alignment with NBA accreditation standards.



ST. XAVIER'S TECHNICAL INSTITUTE

Govt. Aided Autonomous Minority Institute, Approved by A.I.C.T.E. New Delhi
Mahim Causeway, Mumbai 400 016. Phone : 2445 5937 / 4559 / 1961 / 2446 0359 / 9670

Fax : +91(22) 2445 4482. E-mail : office@xaviertech.com

DTE CODE 3023

IO/024/EDC CELL/

30TH OCT 2024

To:
All Concerned Staff

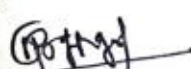
Sub: - Entrepreneurship Development Cell (EDC)

An Entrepreneurship development Cell is an organization that provides a structured platform for students to develop entrepreneurial skills, explore business ideas, access mentorship, gain practical experience and launch startups.

- | | | |
|---|--------------------|---|
| 1. Dr. Vijay R Rathod, HOD(EXTC) | : Chairman |  |
| 2. Dr. Janani Natarajan, TPO | : Member | |
| 3. Mrs. Surbhi Gaoshinde | : Member | |
| 4. Mr. Ravikisan, Student 2 nd year (SPN:2303072) | : Student Member | |
| 5. Mr. Ali Mohammad Tarique Ansari 2 nd year (SPN 2303087) | : Student Member | |
| 6. Mr. Vinaykumar S. Nagaliker | : Member Secretary |  |

The members of the cell are encouraged to carry out entrepreneurship activities as per AICTE/MSBTE Norms.

Regards


Dr. Shivaji B. Ghungrad
Principal



Received copy

CRITERION 9	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	75
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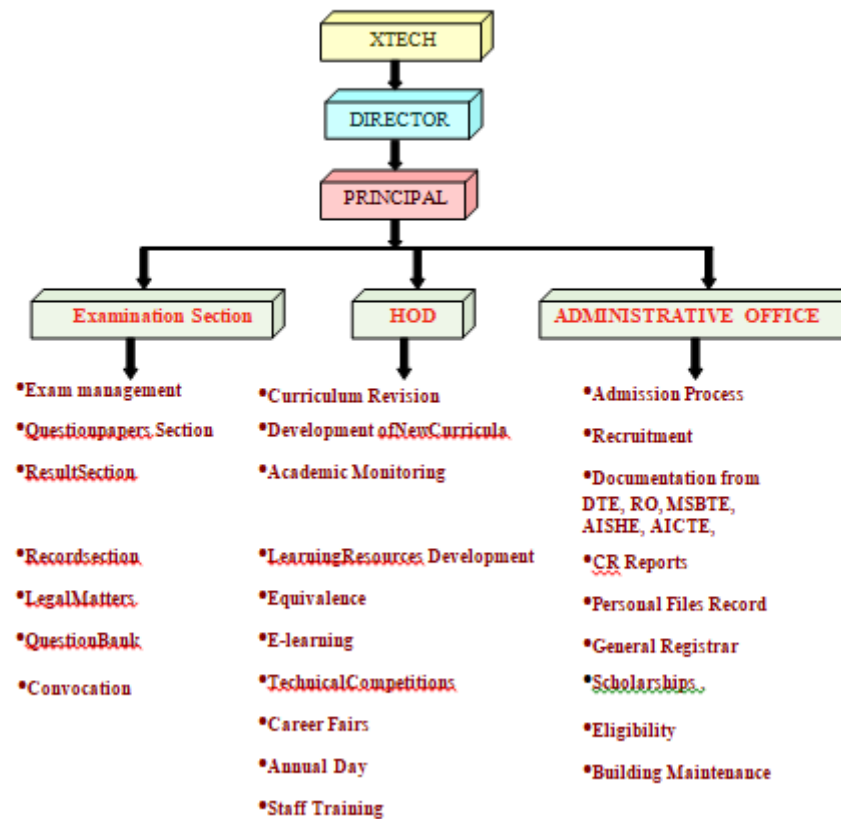
9.1 ORGANIZATION, GOVERNANCE AND TRANSPARENCY (25)**9.1.1 STATE THE VISSION AND MISSION OF THE INSTITUTE (5)****Vision :**

To nurture the joy of excellence in a world of high technology.

Mission :

To Strive to match global standards in technical education by 1. Interaction with industry 2. Continuous staff training AND 3. Development of quality of life of staff and students.

9.1.2 GOVERNING BODY, ADMINISTRATIVE SETUP, FUNCTIONS OF VARIOUS BODIES, DEFINE RULES PROCEDURES, RECRUITMENT AND PROMOTIONAL POLICIES (5)

Organizational Structure

Governing body, administrative setup, functions of various bodies, define rules, procedures, recruitment and promotional policies.

Rules Procedures, Recruitment and Promotional Policies: Annexure II attached.

GOVERNING BODY COMMITTEE

1.	Fr. Anil Pereira, S.J. Provincial, Mumbai Jesuit Society, Mumbai	Chairman
2.	Dr. Vinod Mohitkar Director, Directorate of Technical Education (DTE), Maharashtra State	Member
3.	Dr. P. A. Naik Director, Maharashtra State Board of Technical Education (MSBTE), Mumbai.	Member
4	Fr. Dr. John Rose Santiago, S. J. Director, Xavier Institute of Engineering and St. Xavier's Technical Institute, Mumbai	Member
5.	Fr Albert Menezes S. J. Administrator, Xavier Institute of Engineering and St. Xavier's Technical Institute, Mumbai	Member
6.	Dr. R N Awale Academic Representative VJTI MUMBAI	Member
7.	Dr. U. Ramesh AICTE Representative	Member
8.	Mr. H. K. Kadam Ex. Chief Manager (HRD), RCF, Mumbai, Industry Representative	Member
9.	Mr. G. B. Dhanokar Ex. Joint Director, Regional Office, Bandra, Mumbai	Invitee
10.	Mr. Satish Jadhav Proprietor, BioKit, Laboratory equipment manufacturer & service provider	Invitee
11.	Dr.M .M. Munde Sel.Grd. Lecturer, St. Xavier's Technical Institute, Mahim	Member
12.	Mrs. S. Datta Sel. Grd Lecturer, St. Xavier's Technical Institute, Mahim	Member
13.	Dr. S. B. Ghungrad Principal, St. Xavier's Technical Institute, Mahim	Member Secretary

Functions:

The functions of the Governing Body is to address and come up with feasible solutions pertaining to budget, finances, management, facilities that are in place, academics, curriculum, staff training, promotions, teaching-learning processes, academic performance of students, co-curricular activities, etc. so as to facilitate a state of continuous improvement and enhancement of the staff and student performance, as well as to ensure a smooth functioning of the institute at all levels.

Responsibilities:

All the Governing Body members are distinguished individuals from the management, experts from industry and experienced academicians. In an organized and a systematic manner, they analyze the points that need to be addressed at each Governing Body meeting as per the agenda. Accordingly after thorough discussion and analysis their objective to arrive at and suggest suitable remedial actions to address any shortcomings that might be existing in the processes stated above.

Frequency of meetings:

Two Governing Body meetings are held in a year. These are normally conducted in the months of April and November. The last few Governing Body meetings too place and were conducted on the following dates:

Governing Body Member Meeting Record

Sr. No	Date	Year
1	Friday, 25th October, 2024	2024
2	Thursday, 2nd May 2024	2024
3	Friday, 13th October, 2023	2023
4	Wednesday, 26th April 2023	2023
5	Tuesday, 31 st January 2023	2023
6	Wednesday, 9 th November 2022	2022
7	Wednesday, 20 th April 2022	2022
8	Tuesday, 23 rd November 2021	2021
9	Friday, 23rd July 2021	2021

10	Wednesday, 24th February 2021	2021
11	Thursday, 23rd July 2020	2020
12	Tuesday, 15th October 2019	2019
13	Wednesday, October 31, 2018	2018
14	Friday, 18th May 2018	2018

Attendance:

All the Governing Body members are generally informed well in advance of the meeting dates and the respective agenda, through email as well as print copies. Thus the attendance of all the members is invariably regular and all members are generally present. Registers that indicate the attendance with signatures of the Governing Body (and Finance Committee) members can be provided.

9.1.2 C. THE PUBLISHED SERVICE RULES, POLICIES AND PROCEDURES WITH YEAR OF PUBLICATION (01)

The Government of Maharashtra has established several key service rules, policies, and procedures to regulate the conduct and administration of its civil services. Below is a list of significant rules along with their year of publication:

1. Maharashtra Civil Services (General Conditions of Services) Rules, 1981

- **Year of Publication:** 1981
- **Description:** These rules outline the general conditions of service for Maharashtra's civil servants, including aspects like appointments, promotions, and transfers.
- **Official Source:** Finance Department, Government of Maharashtra finance.maharashtra.gov.in

2. Maharashtra Civil Services (Leave) Rules, 1981

- **Year of Publication:** 1981
- **Description:** These rules govern the various types of leave available to civil servants, such as earned leave, medical leave, and special leave provisions.
- **Enforcement Date:** 15th August 1981 legitquest.com

3. Maharashtra Civil Services (Pension) Rules, 1982

- **Year of Publication:** 1982
- **Description:** These rules detail the pension entitlements and procedures for civil servants upon retirement.
- **Official Source:** Finance Department, Government of Maharashtra finance.maharashtra.gov.in

4. Maharashtra Civil Services (Commutation of Pension) Rules, 1984

- **Year of Publication:** 1984
- **Description:** These rules provide guidelines for the commutation of pension, allowing retirees to receive a lump-sum payment in lieu of a portion of their pension.
- **Official Source:** Finance Department, Government of Maharashtra finance.maharashtra.gov.in mahaias.maharashtra.gov.in

5. Maharashtra Civil Services (Joining Time, Foreign Services, and Payment During Suspension, Dismissal, and Removal) Rules, 1981

- **Year of Publication:** 1981
- **Description:** These rules address the procedures and entitlements related to joining time, deputations to foreign services, and payments during periods of suspension, dismissal, or removal.
- **Official Source:** Finance Department, Government of Maharashtra finance.maharashtra.gov.in

6. Maharashtra Right to Public Services Act, 2015

- **Year of Enactment:** 2015
- **Description:** This Act ensures that citizens receive notified public services in a transparent, timely, and efficient manner. It also establishes mechanisms for grievance redressal and accountability of public authorities.
- **Official Source:** Home Department, Government of Maharashtra home.maharashtra.gov.in

9.1.3 DECENTRALIZATION IN WORKING AND GRIEVANCE REDRESSAL MECHANISM (5)

Decentralization in working and grievance redressal mechanism

A. List the names of the faculty members who have been delegated powers for taking administrative decisions (02)**I) Grievance Committee for Students and Staff.**

- | | |
|---|---------------------------|
| 1. Dr. S.B. Ghungrad, Principal | : Chairman |
| 2. Dr. Vijay Rathod, Head of Department (EXTC) | : Member |
| 3. Mr. Shekhar Jirapure, Lecturer (Sel.Grd.) | : Member |
| 3. Mr. Sanjiv Borkar, Lecturer | : Member |
| 5. Mrs. Helen Cerejo, Office Superintendent | : Member |
| 6. Mr. Mahindra Suvare, Hamal | : Member |
| 7. Mrs. Sanchita Datta, Lecturer (Sel.Grd.) | : Member Secretary |

We also have in the committee, **Fr. Albert M.P. Menezes, S.J.** as an Ombudsman.

II) Anti-Ragging Committee.

- | | |
|--|---------------------------|
| 1. Dr. Shivaji Ghungrad, Principal | : Chairman |
| 2. Dr. Vijay Rathod, Head of Department | : Member |
| 3. Mrs. R. Sumathi, Librarian | : Member |
| 4. Mr. Raviraj Ghadage, Registrar | : Member |
| 5. Mrs. Surbhi Gaoshinde, Lecturer | : Member Secretary |

III) Anti-Ragging Squad.

- | | |
|--|---------------------------|
| 1. Mr. Anil Gurav, Lecturer (Sr Scale) | : Co-ordinator |
| 2. Mr. Vinaykumar Nagalikar, Lecturer (Sr.Scale) | : Squad Member |
| 3. Mr. Aditya Daine (I Year SPN No. 2403019) | : Squad Member |
| 4. Ms. Darshita Koli (II Year SPN No. 2303037) | : Squad Member |
| 5. Mr. Parth Banote (III Year SPN No. 2203080) | : Squad Member |
| 6. Mrs. Helen Cerejo, Office Superintendent | : Squad Member (Lady) |
| 7. Ms. Dipti Mestry, Controller of Examination | : Member Secretary (Lady) |

IV) Internal Complaint Committee to Prevent Sexual Harassment of women

- | | |
|---|--------------------|
| 1. Mrs. Sanchita Datta, Lecturer (Sel.Grd.) | : Chairman |
| 2. Mr. Shekhar Jirapure, Lecturer (Sel.Grd) | : Faculty Member |
| 3. Mr. Raviraj Ghadage, Registrar | : Staff Member |
| 4. Mrs. Helen Cerejo, Office Superintendent | : Staff Member |
| 5. Ms Urmila Salunke, Akshara Centre | : NGO Member |
| 6. Ms. Manasvi Patil (III Year SPN No. 2203158) | : Student Member |
| 7. Ms. Rutuja Sagarkar(II Year SPN No. 2303117) | : Student Member |
| 8. Ms. Shravani Jadhav (I Year SPN No.2403038) | : Student Member |
| 9. Mrs. Surbhi Gaoshinde, Lecturer | : Member Secretary |

B. SPECIFY THE MECHANISM AND COMPOSITION OF GRIEVANCE REDRESSAL CELL INCLUDING ANTI RAGGING COMMITTEE & SEXUAL HARASSMENT COMMITTEE (03)

1. Grievance Redressal Cell

Objective:

- To address complaints from students, staff, and stakeholders regarding academic, administrative, or personal grievances.
- To ensure fair, transparent, and time-bound resolution.

Mechanism:

- **Complaint Submission:** Complaint boxes, emails, or direct submissions.
- **Screening:** Preliminary review by the Grievance Redressal Cell (GRC) members.
- **Investigation:** Fact-finding inquiry, discussion with concerned parties.
- **Resolution:** Counseling, corrective actions, or disciplinary measures.
- **Feedback:** Inform complainant about the outcome.

Composition:

- Chairperson (Senior Faculty / Principal / Director)
- 2–3 Senior Faculty Members
- 2 Non-Teaching Staff Member

2. Anti-Ragging Committee

Objective:

- To prevent and eliminate any instances of ragging inside or outside the institution.
- To create a safe and respectful environment.

Mechanism:

- **Awareness:** Orientation programs, posters, anti-ragging affidavits from students and parents.
- **Monitoring:** Vigilance squads to monitor sensitive areas.
- **Complaint Redressal:** Helpline numbers, complaint boxes, quick investigation, and strict action.
- **Reporting:** Report cases to university and regulatory authorities (e.g., UGC).

Composition:

- Head of Institution (Chairperson)
- Senior Faculty Members
- Representatives of Students (freshers and seniors)
- Non-Teaching Staff Members

3. Sexual Harassment Committee (Internal Complaints Committee — ICC)

(As per the Sexual Harassment of Women at Workplace [Prevention, Prohibition and Redressal] Act, 2013 — POSH Act)

Objective:

- To prevent and address sexual harassment at the workplace.
- To provide a safe working and learning environment.

Mechanism:

- **Complaint Filing:** Written complaints by aggrieved individuals within 3 months of the incident.
- **Preliminary Inquiry:** Review of complaint; possibility of conciliation (optional).
- **Formal Inquiry:** Investigation within 90 days, calling witnesses, collecting evidence.
- **Report Submission:** Submit report to the employer with recommendations for action.
- **Action Taken:** Implementation of disciplinary action within 60 days if proven.

Composition:

- Presiding Officer (Senior Woman Employee)
- 2–3 Members from among employees (committed to women's cause/legal knowledge)
- Representatives of Students (freshers and seniors)
- One External Member (from NGO/association committed to women's rights)
- At least 50% of members must be women

9.1.4 DELEGATION OF FINANCIAL POWERS (5)

Sr No	Name of Staff	Designation	Responsibility	Financial
1	Dr. S.B. Ghungrad	Principal	Overall Institute	Rs. 25000/-
2	Dr. Vijay Rathod	HOD	Overall Department	Rs. 15000/-
3	Mr. S.N. Jirapure	Lecturer, Sel.Grd.	Lab In-charge – Advanced Electronics Lab	Rs. 5000/-
4	Mr. R.V. Gheware	Lecturer, Sel.Grd	Lab In-charge – Computer Centre	Rs. 5000/-
5	Dr. Mahesh Munde	Lecturer, Sel.Grd	Lab In-charge – Comm. Lab	Rs. 5000/-
6	Mr. A.C. Gurav	Lecturer, Sr. Scale	Lab In-charge – Basic Electronics Lab	Rs. 5000/-
7	Mr. S.R. Borkar	Lecturer, Sel.Grd	Lab In-charge – Elect. Machine Lab	Rs. 5000/-
8	Mr. Abhijit Patil	Lecturer	Lab In-charge – Materials & Component Lab	Rs. 5000/-
9	Mr. V. Nagalikar	Lecturer, Sr. Scale	Lab In-charge – Microcontroller Lab	Rs. 5000/-
10	Mrs. Surbhi Gaoshinde	Lecturer, Sr. Scale	Lab In-charge – Artificial Intelligence Lab	Rs. 5000/-
11	Mr. Raviraj Ghadage	Registrar	General Office	Rs. 5000/-

The amount mentioned as financial limits are sanctioned to the respective staff as per lab requirement. They submit the necessary bills in accounts & settle the remaining amount on or before financial year end.

9.1.5 TRANSPARENCY AND AVAILABILITY OF CORRECT/UNAMBIGUOUS INFORMATION IN PUBLIC DOMAIN (5)

A. Information on the policies, rules, processes is to be made available on web site

All relevant policies, rules, and processes related to the Diploma in Electronics & Telecommunication Engineering are made available on the institutions official website. This includes academic regulations, examination and assessment procedures, grievance redressal mechanisms, feedback collection methods, and quality assurance practices. The online availability ensures transparency, easy access for all stakeholders, and alignment with the requirements of NBA accreditation.

B. Dissemination of the information about student, faculty and staff

Information related to students, faculty, and staff is systematically disseminated through the institution's official website, notice boards, emails, and internal communication platforms. This includes academic schedules, achievements, updates, responsibilities, and important announcements. Ensuring timely and accurate dissemination promotes transparency, enhances coordination, and supports the smooth functioning of academic and administrative processes.

9.2 BUDGET ALLOCATION, UTILIZATION, AND PUBLIC ACCOUNTING AT INSTITUTE LEVEL (10)

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years.

TOTAL INCOME AT INSTITUTE LEVEL :**Table 1 - CFYm1 2023-24**

Total Income in CFY: 2023-2024				Actual expenses in CFY: 2023-2024			Total No. of students <u>312</u> in CFY: 2023-24
Fee	Govt.	Grant	Other Sources	Recurring including Salaries	Non- recurring	Special Projects / Any other, specify	Expenses per student
3838285	0	60875984	1187217	61430880	11791748	0	234687.91

Table 2 - CFYm2 2022-23

Total Income in CFY: 2022-2023				Actual expenses in CFY: 2022-2023			Total No. of students <u>328</u> in CFY: 2022-23
Fee	Govt.	Grant	Other Sources	Recurring including Salaries	Non- recurring	Special Projects / Any other, specify	Expenses per student
4574328	0	59978975	795310	64721609	4933921	0	212364.42

Table 3 - CFYm3 2021-22

Total Income in CFY: 2021-2022				Actual expenses in CFY: 2021-2022			Total No. of students <u>292</u> in CFY: 2021-22
Fee	Govt.	Grant	Other Sources	Recurring including Salaries	Non- recurring	Special Projects / Any other, specify	Expenses per student
2877407	0	48636261	782486	52502585	4030413	0	193606.16

Table 4 - CFY 2024-25

Total Income in CFY: 2024-2025				Actual expenses in CFY: 2024-2025			Total No. of students <u>318</u> in CFY: 2024-25
Fee	Govt.	Grant	Other Sources	Recurring including Salaries	Non- recurring	Special Projects / Any other, specify	Expenses per student
4254090	0	66440216	3556676	75554637	3938864	0	249979.56

9.2.1 ADEQUACY OF BUDGET ALLOCATION (4)**Recurring**

Since the Institute is autonomous and government-aided, the preparation of the annual budget depends on both recurring and non-recurring expenditures. Recurring expenditures are funded through government grants, and therefore, the budget must be prepared in accordance with the standards, norms, and guidelines issued by the Government.

Any excess grant or advance amount received from the Government is adjusted in the budget of the subsequent financial year. While recurring grants are generally adequate, there are additional financial obligations, such as the payment of arrears to Lecturers for senior scale and selection grade promotions, as well as arrears arising from the 12-year and 24-year time-bound promotion schemes for non-teaching staff.

An interim grant is sanctioned based on the standards, norms, and guidelines provided by the Directorate of Technical Education, Maharashtra State, Mumbai.

Non-Recurring

During the Governing Body and Finance Committee meetings, discussions on new developments are undertaken, based on the budget proposals prepared by the respective departments and the institute. Taking into account the available revenue, the management provides the necessary balance funding to support these initiatives.

The revenue generated is primarily utilized for the purchase of capital items such as computers, equipment, and machines, which are essential for the development of laboratories and the efficient execution of official work. Additionally, the revenue supports the renovation of existing laboratories and the establishment of new ones.

Building maintenance is also considered a critical aspect of institutional upkeep. Therefore, a sufficient portion of the budget is allocated for the maintenance and repair of the institute's infrastructure.

A one-year development vision is established, focusing on the enhancement of the institute, laboratories, and library facilities through the provision of new furniture, electrical work, and other essential upgrades.

The budget prepared for these activities is deemed adequate, and there have been no issues in the allocation of funds for the aforementioned purposes.

9.2.2 UTILIZATION OF ALLOCATED FUNDS (4)

Since the Institute offers only a single course, the Head of the Institute has ample time to carefully prepare the budget, considering all necessary aspects. The funds, both provided by the management and generated internally by the Institute, are utilized strictly on a priority basis. As a result, we have successfully developed world-class laboratories that provide individual setups for each student for almost all practicals, ensuring a high standard of hands-on learning. This significant development marks a major milestone for the Institute.

9.2.3 AVAILABILITY OF THE AUDITED STATEMENTS ON THE INSTITUTE'S WEBSITE (2)

1. Audited statments are available on Institue website.

9.3 DEPARTMENT SPECIFIC BUDGET ALLOCATION, UTILIZATION (5)**Table 1 :: CFY 2024-25**

Total Budget 81890000		Actual expenditure (till...): 79493501	
Non Recurring	Recurring	Non Recurring	Recurring
4280000	77610000	3938864	75554637

Table 2 :: CFYm1 2023-24

Total Budget 83430000		Actual expenditure (till...): 73222628	
Non Recurring	Recurring	Non Recurring	Recurring
11070000	72360000	11791748	61430880

Table 3 :: CFYm2 2022-23

Total Budget 78495000		Actual expenditure (till...): 73222628	
Non Recurring	Recurring	Non Recurring	Recurring
5960000	72535000	4933921	64721609

Table 3 :: CFYm3 2021-22

Total Budget 65615000		Actual expenditure (till...): 56532998	
Non Recurring	Recurring	Non Recurring	Recurring
4500000	61115000	4030413	52502585

9.3.1 ADEQUACY OF BUDGET ALLOCATION (07)

The budget allocation for the assessment year is adequate for recurring expenses, as the institute is primarily funded by government grants, with the salary component being the major recurring expenditure covered. However, the allocation for non-recurring items is inadequate. Although we prepare a provisional budget for non-recurring expenses aimed at the development and maintenance of the institute, the sanctioning of such grants is subject to government standards, norms, and guidelines, making it challenging to secure funding for these items. To bridge this gap, the institute's management provides additional support, supplemented by revenue generated internally.

9.3.2 UTILIZATION OF ALLOCATED FUNDS (08)

The funds provided by the government are adequately utilized, as they are directly allocated for the payment of salaries. However, there are pending arrears to be paid to lecturers, particularly concerning senior scale and selection grade promotions, as well as arrears related to the 12-year and 24-year promotion plans for non-teaching staff, due to insufficient funds.

Funds provided by the management, along with development fees collected from students and revenue generated by the institute, are primarily utilized for non-recurring expenses. These include the purchase and repair of equipment, procurement and maintenance of computer hardware and software, infrastructure maintenance, staff training programs, organization of student functions such as NEXTECH and Manthan, and staff welfare activities.

9.4 LIBRARY AND INTERNET (20)

(It is assumed that zero deficiency report was received by the institution, Effective availability and utilization to be demonstrated)

9.4.1 QUALITY OF LEARNING RESOURCES (HARD/SOFT) (10)

Relevant learning resources, including e-resources and access to a well-equipped Digital Library, are made available to students and faculty to support effective teaching and learning .

Library is used by students and staffs of the institute for reading, reference and project works. Library provides reference materials like dictionaries, encyclopaedias, data books, periodicals etc. Library Circulation includes the text books as per syllabus recommended for D.E.T.E.

- LIBRARY Carpet area is : 144sq.m
- READING space area is : 72sq.m
- NO. of SEATS in reading area : 45

NO. of LIBRARY STAFF is : 2

LIBRARIAN : 1

PEON : 1

NO. of USERS per day : 40

LIBRARY CARDS: Two library cards will be issued to Ist & IInd year D.E.T.E students & Three Library cards for IIIrd year students per year. Library facilities are availing by around forty students per day.

BOOK BANK SCHEME IS PROVIDED to the D.E.T.E. STUDENTS. As per the Book bank scheme, they will get a set of syllabus recommended text books for one year including both semesters.

LIBRARY is open from 9 a.m to 5.00 p.m on all working days.

LIBRARY COLLECTIONS includes;

1. Library *Books in circulation* : 12,244
2. Book Bank books : 3333
3. Newspapers : 02
4. Compact discs : 161
5. Periodicals : 7

Library Services;

1. 1 .Open Access system
2. Reprographic Facilities
3. Book Bank Facilities
4. Reference Books
5. Internet Facilities
6. Circulation of Books

TOTAL NO. OF BOOKS IN LIBRARY---15,577

- No .of Titles : 6317
- No. of Volumes : 15,577
- No.of National Journals; electronics 7 + Computer 6 : 13
- No.of e-Books : 2
- No. of Computers : 11

RESOURCE SHARING With Xavier Institute of Engineering E-Journals like IEEE

LIBRARY AUTOMATION & Computerization of Library is done using upgraded version of SLIM 21 SOFTWARE. Using this Software search can be done by author, Title, keywords etc

Barcode of library books is done. We are using barcode facilities for circulation of books.

Physical Resources;

Curriculum related books

Electronics Magazines

Reference Books

Datasheet Books/Catalogs

Newspapers

Computers loaded with softwares related to curriculum.

E-resources;

Internet

Online streaming video(Google ,youtube,veoh)

Demonstration videos

E-books with NDL libraries

ACCESSIBILITY TO STUDENTS

Accessibility of Learning Resources to Students

The institution is committed to providing students with seamless access to a diverse array of learning resources, encompassing both traditional and digital formats. This commitment is realized through the following initiatives:

1. Central and Digital Library Access

- **Physical Library:** The central library offers an extensive collection of textbooks, reference materials, journals, and periodicals, catering to various academic disciplines.
- **Digital Library:** Students have 24/7 access to a robust digital library infrastructure, facilitating uninterrupted learning and research activities.

2. E-Resources and Online Databases

- **Subscribed Databases:** The institution subscribes to renowned databases such as IEEE Xplore, Springer, ScienceDirect, and J-Gate, providing students with access to a vast repository of scholarly articles and research papers.
- **National Digital Library of India (NDLI):** Students are encouraged to utilize NDLI, a virtual repository offering over 100 million educational resources across various disciplines and languages. [Wikipedia](#)

9.4.2 INTERNET (10)

Name of the Internet provider	TATA1 : 1LEASED
Available band width	TATA 100 Mbps Soumya broadband 200 Mbps shared mode
WiFi availability	Yes
Internet access in labs, classrooms, library and offices of all Departments	Yes
Security arrangements	Physical Security; latches on CPU Cabinets & Switch rack, Pad locks Internet Security; a.Access Restricted using Login user and Password Combination. b.Centralized Firewall c. Proxy Server for traffic monitoring and Logging antivirus and Antispyware with USB Protection.

9.5 INSTITUTIONAL CONTRIBUTION TO THE COMMUNITY DEVELOPMENT (5)**Objectives of Skill Development Training Programmes:**

- Providing basic skills, knowledge and attitudes for self/wage employment to intended beneficiaries in their own villages/communities or nearby areas.
- Imparting entrepreneurial skills for initiating micro/tiny enterprises especially for the rural youth and community.
- Special training programs on health and hygiene, sanitation and mechanization of sanitary services and skill programs pertaining to liberation and rehabilitation of scavengers may be organized.

9.6 ALUMNI PERFORMANCE AND CONNECT (10)

The institution recognizes the pivotal role of its alumni in enhancing academic excellence, fostering industry linkages, and contributing to the overall development of the institution. Efforts are directed towards establishing a robust alumni network that actively participates in various institutional activities.

Alumni Association

- **Formation and Registration:** A duly formed and registered Alumni Association serves as the cornerstone for alumni engagement.

- **Governance:** The association operates with a structured governance model, including elected representatives and defined roles, ensuring transparency and accountability.



ST. XAVIER'S TECHNICAL INSTITUTE
MAHIM, MUMBAI - 400 016.

10/02/25/Staff/030

दिनांक - ०२.०४.२०२६

कार्यालयीन आदेश

विषय: माजी विद्यार्थी मेळावा कार्यक्रमाच्या नियोजनाची जबाबदारी सोपविण्याबाबत.

आपल्या संस्थेतील 'Alumni Association' मार्फत शनिवार, दिनांक ०४.०४.२०२६ रोजी सायंकाळी ४.०० ते ६.०० यावेळेत "माजी विद्यार्थी मेळाव्याचे" आयोजन करण्यात आले आहे. सदर कार्यक्रम यशस्वीरित्या पार पाडण्यासाठी खालील अधिकारी / कर्मचाऱ्यांवर विशेष जबाबदारी सोपविण्यात येत आहे:

१. श्री. अभिजित पाटील, अविद्याख्याता
२. श्रीम. दर्शना जाधव, प्रयोगशाला सहाय्यक
३. श्री. राजू बेंकन, हमाल

[Signatures]

सूचना:

१. वरील अधिकारी / कर्मचाऱ्यांनी आपापसांत समन्वय राखून कार्यक्रमाची तयारी पूर्ण करावी.
२. कार्यक्रमाच्या दिवशी सर्व अधिकारी / कर्मचारी वेळेवर उपस्थित राहतील याची नोंद घ्यावी.

सदर जबाबदारी आपण अत्यंत निष्ठेने आणि चोखपणे पार पाडाल, अशी संस्थेला खात्री आहे.

प्रत माहितीसाठी-

- १) संचालक, फा. डॉ. जॉन रोज, एस.जे.
- २) विभाग प्रमुख DETE



[Signature]
डॉ. शिवाजी घुंगराड
प्राचार्य
Dr. Shivaji Chungard
PRINCIPAL
St. Xavier's Technical Institute
Mahim, Mumbai - 400 016.

DEED OF TRUST OF "ST. XAVIER'S TECHNICAL INSTITUTE ALUMNI ASSOCIATION"

This Trust Deed is made on 10/10/2025 at Mumbai, between
(1) SANTIAGO JOHN ROSE, aged about _____ years, Occupation : Service, residing Xavier Institute Of Engineering, Mahim West, Mumbai - 400016. hereinafter referred to as the "THE SETTLER" of the first part; AND

(1) SANTIAGO JOHN ROSE, aged about _____ years, Occupation : Service, residing Xavier Institute Of Engineering, Mahim West, Mumbai - 400016. hereinafter referred to as "THE MANAGING TRUSTEE"

[Signatures]

SIGNED, SEALED AND DELIVERED
By the withinnamed :-

ABHIJIT AJITKUMAR PATIL

In the presence of _____

1. SHEKHAR NARAYANRAO JIRAPURE
Add:- B- 609, Building No. 38, Kripa Nilaya
Chs Ltd, Near Apollo Hospital, Tilak Nagar,
(Chembur), Mumbai - 400089.

[Signature]

2. ANUSHREE KIRAN SAMANT
Add:- B1-703, Girishukhar Chs Ltd, Kajupada
Road, Near Kajupada Last Bus Stop, Kajupada
Borivali (East), Mumbai - 400066.

[Signature]

SIGNED, SEALED AND DELIVERED
By the withinnamed :

Sr.	NAME	DESIGNATION
1.	SANTIAGO JOHN ROSE	CHAIRMAN
2.	SHIVAJI BAPURAO GHUNGRAD	VICE - CHAIRMAN
3.	ABHIJIT AJITKUMAR PATIL	PRESIDENT
4.	VINAYKUMAR SHARANAPPA NAIGALDKAR	SECRETARY
5.	DARSHANA CHANDRAKANT JADHAV	TREASURER

The first Trustees here of in the presence of

1. SHEKHAR NARAYANRAO JIRAPURE
Add:- B- 609, Building No. 38, Kripa Nilaya
Chs Ltd, Near Apollo Hospital, Tilak Nagar,
(Chembur), Mumbai - 400089.

[Signature]

2. ANUSHREE KIRAN SAMANT
Add:- B1-703, Girishukhar Chs Ltd, Kajupada
Road, Near Kajupada Last Bus Stop, Kajupada
Borivali (East), Mumbai - 400066.

[Signature]

[Signatures]

- **Activities:** Regular meetings, reunions, and events are organized to strengthen alumni bonds and encourage their involvement in institutional initiatives.



Xtech Alumni Meet 2026

date 4/4/2026

85	Vansha Pingal	21/07/2006	77389988	vanshapingal@gmail.com	Mbkali
86	Sakshi Ramde	4/4/26	8097057020	sakshi143@gmail.com	Sakshi.f
87	Ritesh Sharma	4/4/26	76063446	85347713@gmail.com	
88	Pranav Bhuraskar	4/4/26	705871183	pranavbhuraskar@gmail.com	
89	Harsh Vady	4/4/26	859128028	Ay168460@gmail.com	Harsh
90	Zakery	4/4/26			
91	Attuora				
92	Siddesh Koli	5/9/26			
93	Ansh	5/9/26	772727987	anishanish108@gmail.com	
94	Rahul	5/9/2022	7715971046	rahulrahul1502@gmail.com	Rahul
95	Jai Harn	6/10/2026	720923284	shrikharsh@gmail.com	Jai
96	Joe Godwin	4/04/2026	797769447	godwinjoe87@gmail.com	Joe
97	Entecham	4/04/2026	507088222	entecham2026@gmail.com	Entecham
98	Vedant Hatpat	4/04/2026	982058745	hatpatvedant0@gmail.com	Vedant
99	Avishkar Anshule	20/5/26	85995189012	avishkaranshule@gmail.com	Anshule
100	Om Patel	4/04/26	9503787045	ompatil06@gmail.com	Om
101	Armaan Panjwani	4/04/26	8188039296	panjwaniarmaan51@gmail.com	Armaan
102	Danish Shaikh	4/04/26	889260960	danishshaikh@gmail.com	Danish
103	Jithuaji A. Shah	4/04/26	980149961	jithuajishah2005@gmail.com	Jithuaji
104	AAYUSH VADAV	4/04/26	983622343		Aayush
105	EMMANUEL	4/04/26	8291588247		Emmanuel
106	Kurich Sapte	4/3/26	9157649693		Kurich
107	Isha Langwal	4/4/26	986328842		Isha
108	Sumit Pandure	2017	70455591269		Sumit
109	Harshat Kardikar	2017	9137649613	harshatkardikar2@gmail.com	Harshat
110	Prasad Shetkar	2017	9653257661		Prasad
111	Dipesh Patel	2017	9869186135	patildipesh69@gmail.com	Dipesh
112	Raja Khavikar	2017	9869186135		Raja
113	Amit Ruchel	2017	7506932020	amitspandhel5@gmail.com	Amit
114	Nidhi Kanyale	2017			Nidhi
115	Priya Kharwar	2017	9137340648	prajakharwar10@gmail.com	Priya

Involvement of Alumni

- **Academic Contributions:** Alumni actively participate in curriculum development, guest lectures, workshops, and seminars, bringing industry insights into the academic environment.

ST. XAVIER'S TECHNICAL INSTITUTE,
Mahim, Mumbai - 400 016

DETE DEPARTMENT

ALUMNI FEEDBACK

Dear Alumni,

Kindly furnish the details as required for NBA documentation. Put tick mark (✓) as per the attainment of POs, PSOs and PEOs in your field (1 is for lowest and 5 is for highest).

NAME OF ALUMNI: Amya Sandeep Behere

YEAR OF PASSING FROM XTECH 2024-2025

NAME OF COMPANY/FIRM (WITH ADDRESS): _____

TYPE OF EMPLOYMENT: EMPLOYER(), EMPLOYEE(), SELF-EMPLOYED(), STUDENT(✓)

DESIGNATION/POSITION HELD: _____

CONTACT NO. 9702970649 EMAIL ID: behereamy@gmail.com

NO.	PO STATEMENT	Strongly Agree 5 m	Agree 4 m	Neutral 3 m	Disagree 2 m	Strongly Disagree 1 m
PO1	I am able to apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering Problems.		✓			
PO2	I am able to identify and analyze well-defined engineering problems using codified Standard methods.		✓			
PO3	I am able to design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs...	✓				
PO4	I am able to apply modern engineering tools and appropriate technique to conduct standard tests and measurements.		✓			
PO5	I am able to apply appropriate technology in context of society, sustainability, environment and ethical practices.			✓		

P06	I am able to Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined Engineering activities.		✓			
P07	I am able to analyse individual needs and engage in updating in the context of technological changes.	✓				
PS01	I am able to design, verify and validate electronic functional elements for a variety of applications, with skills to interpret and communicate results.			✓		
PS02	I am able to exercise good programming practices employing low- or high-level languages on appropriate platforms.		✓			
PE01	To produce diploma holders who have the ability to demonstrate technical competence in the fields of Electronics and Tele communication engineering and develop solutions to the problems.	✓				
PE02	To produce diploma holders who would be able to take individual responsibility and to work as a part of a team towards the fulfillment of both individual and organizational goals.		✓			
PE03	To prepare the students to engage in professional development through self-study, graduate and professional studies in engineering, management and research.	✓				

REMARKS IF ANY:

NAME AND SIGNATURE: Amya Sandeep Behere *[Signature]*

DATE: 20/07/25

NOTE: 1) Program outcomes POs and Program Specific outcomes PSOs (what he/she will continue to do at the entry point of Industry soon after completion of Diploma).
2) Programme educational objectives PEOs (what he/she will continue to do even after 3-5 years of working in the Industry)

- **Mentorship and Guidance:** They offer mentorship to current students, providing career guidance, project supervision, and support for higher education pursuits.

Specialized Coach | Entrepreneur | Podcaster
AMIT PANDEY
X-TECH MUMBAI:
GUEST SPEAKER
& PROUD ALUMNUS
Specialized Coach | Entrepreneur | Podcaster
HOST OF: *Wish I Knew That Before*
**MEETING TOPIC:
FUTURE AFTER DIPLOMA**
VENUE: LR -11 FIRST FLOOR, ST XAVIERS
TECHNICAL INSTITUTE, MAHIM, MUMBAI
Thursday - 10:30 am to 12:30 pm
MENTORING
SESSION -
Guidance for
Students



- **Entrepreneurship and Placements:** Alumni contribute to entrepreneurship development by sharing experiences and facilitating networking opportunities. They also assist in placement activities by connecting students with potential employers.



Methodology to Connect with Alumni and Its Implementation

- **Communication Channels:** Regular newsletters, emails, and social media platforms are utilized to keep alumni informed about institutional developments and opportunities for involvement.



ST XAVIERS TECHNICAL INSTITUTE

Mahim-Causeway, Mahim, Mumbai 400 016

Notice: XTECH/ALUMINI/01

Date: 01/04/2026

Alumni Get-together

Dear Staff Members

We are happy to inform you that a Get-together has been planned by the institute for all X-TECH Alumni members and staff.

The Get-together is scheduled on Saturday 04th April 2026 from 04.00 PM onwards in the institute premises.

We would be extremely glad to welcome you all for this get-together and share experiences with alumnae.

A. Patil
01/04/2026
President

(Mr. Abhijit A. Patil)

ST. XAVIER'S TECHNICAL INSTITUTE

Mahim, Causeway, Mumbai 400016

XTECH ALUMNI ASSOCIATION REGISTRATION FORM

I would like to be a member of the X-TECH ALUMNI ASSOCIATION.

Thanking you,

Date: 15/07/2024

Signature: *Harsh*

Name: HARSH VISHANKAR UPADHYAY

Course: DETE / EXTC

Year of Passing: 2024

SPN NO: 2103208

Date of birth: 27/01/2004

Residential Address: SANKRITHA SINGH CHAWL, JAWAHAR NAGAR, TOPLI WADA ROAD, ADARSH LANE, KHAR ROAD (EAST), MUMBAI - 400054

Telephone: Mobile: 9140306465 Res: Office:

Email Id: upadhyayharsh74@gmail.com

Name of Company:

Company Address:

Designation:

Other qualifications obtained after leaving X-TECH:

Areas of expertise / work experience:

Suggestion for curriculum: IMPROVE INFRASTRUCTURE, AND PROVIDE TRAINING FOR FUTURE STUDIES.

Hobbies: READING BOOKS, PLAYING GAMES, STUDIES, etc.

Paid Date: Receipt No: Sign of Staff:



- **Feedback Mechanisms:** Structured feedback is collected from alumni to assess their satisfaction and gather suggestions for institutional improvement.

ST. XAVIER'S TECHNICAL INSTITUTE,
Mahim, Mumbai - 400 016

DETE DEPARTMENT

ALUMNI FEEDBACK

Dear Alumni,

Kindly furnish the details as required for NBA documentation. Put tick mark (✓) as per the attainment of POs, PSOs and PEOs in your field (1 is for lowest and 5 is for highest).

NAME OF ALUMNI: Amya Sandeep Beheve

YEAR OF PASSING FROM XTECH 2024-2025

NAME OF COMPANY/FIRM (WITH ADDRESS): _____

TYPE OF EMPLOYMENT: EMPLOYER(), EMPLOYEE(), SELF-EMPLOYED(), STUDENT(✓)

DESIGNATION/POSITION HELD: _____

CONTACT NO. 9702970649 EMAIL ID: beheve.amya@gmail.com

NO.	PO STATEMENT	Strongly Agree 5 m	Agree 4 m	Neutral 3 m	Disagree 2 m	Strongly Disagree 1 m
PO1	I am able to apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering Problems.		✓			
PO2	I am able to identify and analyze well-defined engineering problems using codified Standard methods.		✓			
PO3	I am able to design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs...	✓				
PO4	I am able to apply modern engineering tools and appropriate technique to conduct standard tests and measurements.		✓			
PO5	I am able to apply appropriate technology in context of society, sustainability, environment and ethical practices.			✓		

P06	I am able to Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined Engineering activities.		✓			
P07	I am able to analyse individual needs and engage in updating in the context of technological changes.	✓				
PS01	I am able to design, verify and validate electronic functional elements for a variety of applications, with skills to interpret and communicate results.			✓		
PS02	I am able to exercise good programming practices employing low- or high-level languages on appropriate platforms.		✓			
PE01	To produce diploma holders who have the ability to demonstrate technical competence in the fields of Electronics and Tele communication engineering and develop solutions to the problems.	✓				
PE02	To produce diploma holders who would be able to take individual responsibility and to work as a part of a team towards the fulfillment of both individual and organizational goals.		✓			
PE03	To prepare the students to engage in professional development through self-study, graduate and professional studies in engineering, management and research.	✓				

REMARKS IF ANY:

NAME AND SIGNATURE: Amya Sandeep Beheve ~~Beheve~~

DATE: 10/07/25

NOTE: 1) Program outcomes POs and Program Specific outcomes PSOs (what he/she will continue to do at the entry point of Industry soon after completion of Diploma).
2) Programme educational objectives PEOs (what he/she will continue to do even after 3-5 years of working in the Industry)

ANNEXURE I**(A) PROGRAM OUTCOME (POs)**

1. **Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
2. **Problem analysis:** Identify and analyse well-defined engineering problems using codified standard methods.
3. **Design/ development of solutions :** Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
4. **Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
5. **Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.
6. **Project Management:** Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
7. **Life-long learning:** Ability to analyse individual needs and engage in updating in the context of technological changes.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

PSO1	Design, verify and validate electronic functional elements for a variety of applications, with skills to interpret and communicate results.
PSO2	Exercise good programming practices employing low or high level languages on appropriate platforms.

Declaration

The head of the institution needs to make a declaration as per the format given –

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute

Name : Dr. S. B. GHUNGRAD

Designation : PRINCIPAL

Signature :