

Proposed Academic Regulations for Undergraduate Engineering Programs- APSIT

(Affiliated to the University of Mumbai)

These regulations are established to ensure academic excellence, transparency, and student-centric learning at engineering colleges affiliated to the University of Mumbai. They are guided by statutory compliance with the **Maharashtra Public Universities Act 2016**, **UGC** and **AICTE norms**, and the **National Education Policy 2020**.

1. Program Duration and Structure

- The Bachelor of Engineering (B.E./B.Tech) program is a 4-year full-time course, comprising 8 semesters.
 - The curriculum follows the Choice Based Credit System (CBCS), providing flexibility and a student-centric approach.
 - Each academic year is divided into two semesters: Odd (July–December) and Even (January–June).
 - Students must complete a total of approximately 160–170 credits, including core, elective, laboratory, and project-based courses.
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2. Eligibility and Admission

Admission to undergraduate engineering programs is governed by the policies and procedures established by the Directorate of Technical Education (DTE), Maharashtra, and includes the following key criteria:

a. Standard Admission (First-Year Entry):

- Admission is primarily based on performance in **MHT-CET (Maharashtra Health and Technical Common Entrance Test)** or **JEE Main (Joint Entrance Examination Main)**, as mandated by the DTE, Maharashtra.
- Candidates must meet the minimum qualifying marks in these examinations, along with the necessary academic prerequisites (e.g., completion of 10+2 with a focus on Physics, Chemistry, and Mathematics) as specified by the DTE.
- The admission process may also consider factors such as domicile status, category-specific reservation quotas, and institutional preferences, which will be clearly communicated during the application process.

b. Lateral Entry (Direct Second-Year Entry):

- Diploma holders in engineering or technology are eligible for lateral entry directly into the second year of the undergraduate engineering program.
- Applicants must have successfully completed a recognized diploma program in a relevant discipline with a minimum percentage as prescribed by the DTE.

- This pathway offers a streamlined route for diploma holders to enhance their qualifications and pursue a full bachelor's degree.

c. Reservation Policies:

- Admission procedures will adhere strictly to the reservation policies set forth by the Government of Maharashtra.
 - These policies ensure equitable access to education for students from various socio-economic and underrepresented groups, including Scheduled Castes (SC), Scheduled Tribes (ST), Other Backward Classes (OBC), Economically Weaker Sections (EWS), and other recognized categories.
 - The specific distribution of reserved seats and related benefits (such as fee concessions and scholarships) will be in line with the latest government regulations.
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3. Curriculum Design and Credit System

- The curriculum is designed by the University of Mumbai's Board of Studies, incorporating AICTE Model Curriculum.
- Courses include:
 - Basic Sciences and Mathematics
 - Engineering Core and Departmental Electives
 - Humanities, Ethics, and Environmental Studies
 - Open electives and interdisciplinary courses
 - Laboratory and skill-based training
 - Mini and Major Projects
 - Mandatory Internship
- One credit is equivalent to 1 hour of lecture or 2 hours of practical/tutorial work per week.
- Multidisciplinary learning, industry-oriented modules, and MOOC-based learning (Swayam/NPTEL) are encouraged.

One credit = 1 hour lecture/week or 2 hours practical/tutorial.

4. Assessment and Evaluation

- Internal Assessment Examination (ISE): 20–30% of total marks; includes class tests, assignments, attendance, and lab performance.
- End Semester Examination (ESE): 70–80% of total marks; conducted by the University of Mumbai.
- Minimum passing criteria:

- 40% in theory and laboratory individually
 - 50% aggregate where applicable
 - Relative or absolute grading systems may be adopted.
 - **Grading System:** Absolute; minimum passing grade is 'P' (4.0 grade points).
 - **Re-evaluation & Special Exams** permitted with specific procedures.
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5. Attendance and Conduct

- A minimum of 75% attendance in each subject is mandatory to be eligible for mid semester examination / end-semester exams (MSE/ESE).
 - Students must adhere to institutional codes of conduct, maintain discipline, and avoid any form of misconduct or ragging.
 - 100% attendance for practical's / tutorials.
 - 25% relaxation in lectures for medical grounds with proof.
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6. Internship and Project Work

- A mandatory internship of 4–6 weeks must be completed during summer breaks, preferably after the second or third year.
 - Final Year students must undertake a Major Project aligned with industry problems or societal needs.
 - Group projects are encouraged to foster teamwork and innovation.
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7. Academic Flexibility and NEP 2020 Implementation: The institute supports the National Education Policy (NEP) 2020 vision through:

- **Multiple Entry/Exit Options:**
 - Certificate (1 year, 40 credits)
 - Diploma (2 years, 80 credits)
 - Degree (4 years, 160+ credits)
 - **Academic Bank of Credits (ABC):**
Mandatory enrollment for credit mobility.
 - Introduction of interdisciplinary **Honours, Research, Double Minors programs:**
Based on performance, subject to institutional eligibility.
 - Emphasis on project-based, experiential, and research-oriented learning
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8. Internship & Project Work

- **Internship:** 4–6 weeks after 2nd/3rd year
 - **Final Year Project:** Team-based, aligned with industry/societal needs
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9. MOOC/NPTEL/SWAYAM Integration

- Up to 20% of total credits can be earned through MOOCs.
 - NPTEL Credit Equivalence:
 - 12 weeks = 3 credits
 - 8 weeks = 2 credits
 - 4 weeks = 1 credit
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10. Examination Rules and Reforms

- Examinations are conducted as per the University of Mumbai's schedule.
- **Types:**
 - **ISE:** Quizzes, assignments, practical's, presentations
 - **MSE:** Mid-semester exam (~30 marks)
 - **ESE:** Comprehensive final exam (100 marks)
 - **Special & Re-Exams:** For genuine cases or grade improvement
- Provision for re-evaluation, verification, and makeup exams for eligible students.
- Transparent and digitized evaluation systems to ensure fairness and efficiency.
- Adoption of AICTE-recommended exam reforms including secure paper setting and central valuation.

Examination Fees (sample):

- Regular: ₹3000/semester
 - Special/Re-exam: ₹3000–₹5000
 - Revaluation: ₹1500 per course
 - Miscellaneous: As per institutional policy
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11. Promotion & Progression

From Year Promotion Condition

I to II ≥50% credits in I Year

From Year Promotion Condition

II to III $\geq 50\%$ in II Year + 70% in I Year

III to IV $\geq 50\%$ in III Year + 70% in I & II Year

12. Evaluation Integrity

- **Unfair Means Committee:** Institutional-level authority for malpractices
 - **Confidential Paper Setting & Moderation**
 - **Transparent Marking Scheme & Revaluation**
 - **Student Access to Answer Scripts (MSE/ESE)**
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13. Results & Grading

Marks Range	Grade	Grade Point	Performance
85+	O	10	Outstanding
80–84.9	A	9	Excellent
70–79.9	B	8	Very Good
60–69.9	C	7	Good
50–59.9	D	6	Fair
45–49.9	E	5	Average
40–44.9	P	4	Pass
<40	F	0	Fail

- **CGPA to Percentage:** $(\text{CGPA} - 0.75) \times 10$
 - **SGPI/CGPI** computed per UGC guidelines
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14. Governance, Quality Assurance, and Compliance

- The institution maintains an **Internal Quality Assurance Cell (IQAC)** as per NBA and NAAC guidelines.
- Regular academic audits, stakeholder feedback, and curriculum reviews are conducted.
- **Examination Committee (EC)** to manage all exam processes

- **Board of Studies & Academic Council** for curriculum and reforms
 - Compliance ensured via regular audits and stakeholder feedback. Compliance is ensured with:
 - Maharashtra Public Universities Act
 - AICTE Approval Process Handbook
 - UGC Guidelines for Autonomous and Affiliated Institutions
 - Statutory committees such as the Academic Council, Board of Studies, and Examination Committee oversee academic integrity.
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15. Academic Calendar and Schedule

- The academic calendar is published at the beginning of each academic year.
- It includes semester timelines, exam schedules, result declaration dates, internship periods, and vacation slots.