

IEMJEE B.Tech Programs & Admission Guide

The Institute of Engineering & Management Joint Entrance Examination (IEMJEE) serves as the primary gateway for admission into the 4-year undergraduate Bachelor of Technology (B.Tech) programs across prominent campuses under the IEM-UEM Group, including IEM Salt Lake, UEM Kolkata, and UEM Jaipur.

1. Core B.Tech Specializations Offered

The undergraduate engineering programs are structured into highly sought-after computer science tracks and fundamental core engineering disciplines, aligned with industrial and digital evolution trends.

Computer Science & Information Technology Fields

These programs are widely recognized for their industry-aligned curricula, holding prestigious National Board of Accreditation (NBA) status for key branches:

- **Computer Science & Engineering (CSE)** — Core framework covering algorithms, system software, and computing architecture.
- **CSE with Advanced Specializations:**
 - Artificial Intelligence & Machine Learning (AI & ML)
 - Artificial Intelligence (AI)
 - Data Science (DS)
 - Internet of Things (IoT)
 - Cyber Security (including Blockchain Technology)
 - Internet of Things & Cyber Security including Blockchain Technology
- **Information Technology (IT)**
- **Computer Science & Technology (CST)**
- **Computer Science & Information Technology (CSIT)**
- **Computer Science and Business Systems (CSBS)** — A curated curriculum designed in corporate collaboration to meet industry-specific business architecture needs.

Core & Allied Engineering Fields

Traditional and multi-disciplinary pathways structured for core engineering infrastructure, manufacturing, and advanced systems design:

- **Electronics & Communication Engineering (ECE)**
- **Electrical Engineering (EE)**
- **Mechanical Engineering (ME)**
- **Civil Engineering (CE)**
- **Biotechnology** — Focused on bioprocess engineering and molecular applications, primarily available at specific university campuses such as UEM.

2. Eligibility Criteria & Academic Thresholds

Admission eligibility is benchmarked against rigorous academic requirements in the qualifying examinations. All fields require a successful qualifying pass in the 10+2 higher secondary examination with Physics, Chemistry, and Mathematics (PCM).

B.Tech Branch Category	Class 10th Minimum	Class 12th Minimum	PCM Minimum Requirement
CSE (Core)	80% aggregate	80% aggregate	50% in PCM
CSE (AI & ML)	75% aggregate	75% aggregate	50% in PCM
CSE (AI)	70% aggregate	70% aggregate	50% in PCM
IT	70% aggregate	70% aggregate	50% in PCM
Other Specializations (Data Science, IoT, Cyber Security, Biotech)	60% aggregate	60% aggregate	45% in PCM
Core Engineering (ECE, Electrical, Mechanical, Civil)	60% aggregate	60% aggregate	45% in PCM

3. Examination Structure & Syllabus

The entrance examination format provides a standardized method to assess engineering aptitude across core fundamental sciences:

- **Syllabus Alignment:** The test maps strictly to the national **JEE Main** examination syllabus, comprising fundamental concepts across Physics, Chemistry, and Mathematics.

- **Exam Evaluation Framework:** The question papers adhere to standard quantitative distributions, traditionally utilizing a comprehensive weightage model where overall evaluation score $S = 360$ marks across a standard format of 90 multiple-choice questions.

Fee Structure & Admission Framework Notes

Academic Fee Outlay: The standard academic tuition fees for the full 4-year B.Tech journey across the IEM-UEM campuses scale to approximately **₹8.65 Lakhs to ₹9.45 Lakhs**, distributed semester-wise.

Alternative Entry Pathways: Beyond the dedicated IEMJEE counseling process, the institutions allocate a substantial percentage of undergraduate engineering seats through the state-level West Bengal Joint Entrance Examination (**WBJEE**) and national-level **JEE Main** centralized counseling portals.