

IPU CET LEET Syllabus for B.Tech Lateral Entry

The IPU CET LEET (Lateral Entry Entrance Test) is conducted by Guru Gobind Singh Indraprastha University (GGSIPU) for Diploma and B.Sc. holders who wish to take direct admission into the 2nd year of B.Tech programs. The exam primarily focuses on Mathematics, Logical Reasoning, and Core Engineering Subjects.

Section-Wise Syllabus for IPU CET LEET

The exam consists of three main sections:

- Applied Mathematics (40 Marks)
 - Analytical & Logical Reasoning (20 Marks)
 - Diploma/B.Sc. Level Engineering Subjects (60 Marks)
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Section 1: Applied Mathematics (40 Marks)

This section tests mathematical reasoning and problem-solving abilities.

Mathematics Topics

- Algebra – Matrices, Determinants, Quadratic Equations
 - Trigonometry – Identities, Heights & Distances
 - Differential Calculus – Limits, Differentiation, Applications
 - Integral Calculus – Definite & Indefinite Integrals
 - Probability & Statistics – Mean, Variance, Probability Theorems
 - Coordinate Geometry – Straight Lines, Circles, Conic Sections
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Section 2: Analytical & Logical Reasoning (20 Marks)

This section assesses critical thinking and problem-solving abilities.

Topics Covered

- Number Series – Finding Missing Numbers, Patterns
- Coding-Decoding – Letter & Number-Based Coding
- Blood Relations – Family Tree Problems
- Syllogisms – Logical Deduction & Venn Diagrams
- Seating Arrangement – Linear & Circular Arrangements
- Logical Puzzles – Statement & Conclusion, Assumptions

Section 3: Diploma/B.Sc. Level Engineering Subjects (60 Marks)

This section includes branch-specific questions for diploma holders and general science topics for B.Sc. holders.

Mechanical Engineering

- Thermodynamics – Laws of Thermodynamics, Heat Transfer
- Strength of Materials – Stress, Strain, Bending Moment
- Manufacturing Processes – Casting, Welding, Machining
- Fluid Mechanics – Bernoulli's Theorem, Flow through Pipes

Electrical & Electronics Engineering

- Circuit Theory – AC/DC Circuits, Network Theorems
- Electrical Machines – Transformers, Motors
- Power Systems – Transmission & Distribution Basics
- Digital Electronics – Logic Gates, Boolean Algebra

Civil Engineering

- Strength of Materials – Stress, Strain, Elasticity
- Structural Analysis – Bending, Shear Force Diagrams
- Surveying – Leveling, Contouring, GPS Basics
- Fluid Mechanics – Properties of Fluids, Pipe Flow

Computer Science & IT

- Programming – C, C++, Java Basics
- Data Structures – Arrays, Linked Lists, Trees
- Computer Networks – OSI Model, TCP/IP Basics
- Operating Systems – Basics of Memory & Process Management

IPU CET LEET Exam Pattern

Subject	Marks
Applied Mathematics	40 Marks
Analytical & Logical Reasoning	20 Marks
Diploma/B.Sc. Level Engineering Subjects	60 Marks

Subject	Marks
Total	120 Marks

 Exam Duration: 2.5 Hours

 Marking Scheme: +4 for Correct Answer, -1 for Incorrect Answer

 Preparation Tips for IPU CET LEET

 Revise Core Engineering Concepts: Diploma/B.Sc. subjects carry maximum weightage.

 Master Mathematics & Logical Reasoning: Scoring sections if practiced well.

 Solve Previous Year Papers: Understand question trends and patterns.

 Take Mock Tests: Helps with time management and accuracy.