

Punjab PET (LEET) Syllabus for B.Tech Lateral Entry

Punjab PET (Punjab Engineering Test) LEET is conducted by **Punjab Technical University (PTU)** for diploma holders seeking **direct admission into the second year of B.Tech programs** in Punjab.

Section-Wise Syllabus for Punjab PET (LEET)

The exam consists of **four major sections**:

1 **Mathematics** – 20 Marks

2 **Physics** – 20 Marks

3 **Chemistry/Computer Science/Biotechnology/Biology** – 20 Marks

4 **Fundamentals of Engineering** – 40 Marks

Section 1: Mathematics (20 Marks)

- Algebra – Matrices, Determinants, Quadratic Equations
 - Trigonometry – Identities, Heights & Distances
 - Differential Calculus – Limits, Differentiation, Applications
 - Integral Calculus – Definite & Indefinite Integrals
 - Probability & Statistics – Mean, Median, Standard Deviation
 - Coordinate Geometry – Straight Lines, Circles
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Section 2: Physics (20 Marks)

- Mechanics – Laws of Motion, Gravitation, Work & Energy
 - Electricity & Magnetism – Current, Resistance, Capacitance, Induction
 - Optics – Reflection, Refraction, Lenses, Wave Optics
 - Modern Physics – Atomic Models, Semiconductors, X-rays
 - Thermodynamics – Heat, Laws of Thermodynamics
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Section 3: Chemistry / Computer Science / Biotechnology / Biology (20 Marks)

(Choose **one** based on diploma background)

Chemistry (For Diploma Holders in Chemical/Related Fields)

- ✓ Atomic Structure & Periodic Table
- ✓ Chemical Bonding & Molecular Structure
- ✓ Electrochemistry & Chemical Equilibrium
- ✓ Organic Chemistry – Hydrocarbons, Alcohols, Polymers
- ✓ Environmental Chemistry – Pollution, Green Chemistry

Computer Science (For Diploma Holders in IT/CS Related Fields)

- ✓ Programming Languages – C, C++, Java Basics
- ✓ Data Structures – Arrays, Linked Lists, Stacks & Queues
- ✓ Operating Systems – Basics, Process Management
- ✓ Database Management – SQL, Relational Databases
- ✓ Networking – OSI Model, TCP/IP Basics

Biotechnology (For Diploma Holders in Biotech/Medical Fields)

- ✓ Cell Biology & Genetics
- ✓ Microbiology & Immunology
- ✓ Genetic Engineering
- ✓ Enzyme & Protein Engineering
- ✓ Industrial Biotechnology

Biology (For Diploma Holders in Medical/Biomedical Fields)

- ✓ Human Physiology
 - ✓ Cell Biology & DNA Replication
 - ✓ Plant Biology & Ecology
 - ✓ Evolution & Genetics
 - ✓ Biotechnology Applications
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Section 4: Fundamentals of Engineering (40 Marks, Branch-Specific)

This section is **based on the diploma branch** of the candidate.

Civil Engineering

- ✓ Strength of Materials
- ✓ Surveying
- ✓ Structural Analysis
- ✓ Fluid Mechanics
- ✓ Building Materials

Mechanical Engineering

- Thermodynamics
- Manufacturing Processes
- Machine Design
- Strength of Materials
- Refrigeration & Air Conditioning

Electrical & Electronics Engineering

- Circuit Theory
- Digital Electronics
- Electrical Machines
- Power Systems
- Microprocessors

Computer Science & IT

- Programming Concepts
- Data Structures
- Computer Networks
- Software Engineering
- Database Management

Architecture Engineering


- Building Construction
- Environmental Engineering
- Urban Planning
- Structural Engineering

Punjab PET (LEET) Exam Pattern


Subject	Marks
Mathematics	20 Marks
Physics	20 Marks
Chemistry/CS/Biotech/Biology	20 Marks
Fundamentals of Engineering	40 Marks


Subject	Marks
Total	100 Marks


 **Exam Duration:** 90 Minutes


 **Marking Scheme:** +1 for Correct Answer, No Negative Marking

Preparation Tips for Punjab PET (LEET)

 **Revise Diploma Subjects:** Focus on your **core engineering subjects** to strengthen concepts.

 **Practice Mathematics & Physics:** These sections **carry high weightage** and require regular practice.

 **Solve Previous Year Papers:** Familiarize yourself with **question patterns** and improve accuracy.

 **Mock Tests & Time Management:** Attempting **mock tests** helps in better time management and confidence building.