







Haryana LEET (HLEET) Syllabus for B.Tech Lateral Entry

Haryana LEET (HLEET) is conducted by **Haryana State Technical Education Society (HSTES)** for diploma and B.Sc. holders seeking **direct admission into the second year of B.Tech programs** in Haryana. The exam is divided into four sections, covering **Mathematics, Science, English, and Engineering disciplines**.

Section-Wise Syllabus for Haryana LEET (HLEET)

Section 1: Mathematics (25 Questions, 25 Marks)






Mathematics plays a crucial role in engineering problem-solving. The key topics include:

-  Algebra – Matrices, Determinants, Binomial Theorem
 -  Calculus – Limits, Differentiation, Integration, Partial Derivatives
 -  Trigonometry – Identities, Heights & Distances
 -  Probability & Statistics – Mean, Median, Standard Deviation
 -  Differential Equations – First and Second Order Equations
 -  Vector Algebra – Dot Product, Cross Product, Gradient
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Section 2: Physics & Chemistry (25 Questions, 25 Marks)

This section tests candidates on fundamental physics and chemistry concepts.

Physics:

-  Kinematics – Motion, Newton's Laws
-  Work, Energy & Power – Conservation Laws
-  Electrostatics & Magnetism – Coulomb's Law, Magnetic Fields
-  Current Electricity – Ohm's Law, AC & DC Circuits
-  Optics – Reflection, Refraction, Lenses

Chemistry:

-  Basic Organic Chemistry – Hydrocarbons, Polymers
 -  Inorganic Chemistry – Periodic Table, Chemical Bonding
 -  Physical Chemistry – Electrochemistry, Chemical Equilibrium
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Section 3: Communication Skills (25 Questions, 25 Marks)

This section evaluates **English language proficiency** required for technical studies. Topics include:

- ✔ Grammar – Tenses, Prepositions, Articles
 - ✔ Vocabulary – Synonyms, Antonyms, One-Word Substitution
 - ✔ Comprehension – Reading & Answering Questions
 - ✔ Sentence Correction – Error Identification
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Section 4: General Awareness & Engineering Sciences (25 Questions, 25 Marks)

This section tests **basic engineering concepts and logical reasoning**.

Engineering Sciences:

- ✔ Engineering Mechanics – Laws of Motion, Work & Energy
- ✔ Basic Electrical Engineering – Ohm’s Law, AC/DC Circuits
- ✔ Electronics – Semiconductors, Digital Logic
- ✔ Computer Awareness – Basics of C Programming, Operating Systems

General Awareness:

- ✔ Current Affairs – National & International Events
 - ✔ Haryana GK – History, Geography, Culture of Haryana
 - ✔ Logical Reasoning – Series, Puzzles, Coding-Decoding
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Branch-Specific Topics for B.Tech Entry

Diploma holders will be tested on **core engineering subjects** related to their specialization.

The major domains include:

- ✔ **Mechanical Engineering:** Strength of Materials, Thermodynamics
 - ✔ **Civil Engineering:** Structural Analysis, Surveying, RCC Design
 - ✔ **Electrical Engineering:** Circuit Theory, Electrical Machines
 - ✔ **Electronics & Communication:** Digital Electronics, Microprocessors
 - ✔ **Computer Science:** Data Structures, Operating Systems
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Exam Pattern for HLEET


Section	Subjects	Questions	Marks
Section 1	Mathematics	25	25


Section	Subjects	Questions	Marks
Section 2	Physics & Chemistry	25	25
Section 3	Communication Skills	25	25
Section 4	General Awareness & Engineering Sciences	25	25
Total	100 Questions	100	Marks


 **Exam Duration:** 90 Minutes


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

Preparation Tips for HLEET B.Tech Aspirants

 **Focus on Mathematics & Science:** Strengthen your concepts in **maths and physics** as they carry significant weight.

 **Revise Diploma Subjects:** Candidates from diploma backgrounds should **revisit core engineering topics** from their branch.

 **Improve English Skills:** Reading newspapers and practicing **comprehension questions** can help in communication skills.

 **Stay Updated with Current Affairs:** General awareness questions are commonly asked from recent events and **Haryana GK**.

 **Practice Mock Tests:** Attempt previous **HLEET papers** to get familiar with the question pattern and improve time management.