



## Kerala LET (Lateral Entry Test) Syllabus for B.Tech Admission

Kerala Lateral Entry Test (Kerala LET) is conducted for diploma holders seeking direct admission into the second year of B.Tech programs in Kerala engineering colleges. The exam evaluates candidates on diploma-level engineering knowledge, mathematics, and basic sciences.

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### Section-Wise Syllabus for Kerala LET

The exam consists of two major sections:

-  Mathematics (20 Marks)
  -  Engineering Subjects (80 Marks)
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### Section 1: Mathematics (20 Marks)






This section covers diploma-level mathematics concepts relevant for engineering students.

-  Algebra – Matrices, Determinants, Complex Numbers, Quadratic Equations
  -  Trigonometry – Identities, Heights & Distances, Inverse Trigonometric Functions
  -  Differential Calculus – Limits, Derivatives, Application of Derivatives
  -  Integral Calculus – Definite & Indefinite Integrals, Applications
  -  Probability & Statistics – Mean, Variance, Standard Deviation, Probability Theorems
  -  Coordinate Geometry – Straight Lines, Circles, Parabolas, Ellipses
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### Section 2: Engineering Subjects (80 Marks)

This section is based on diploma-level engineering subjects, covering core concepts from various engineering disciplines.

#### Civil Engineering

-  Structural Engineering – Strength of Materials, Theory of Structures
-  Surveying – Linear & Angular Measurement, Levelling
-  Fluid Mechanics – Properties of Fluids, Flow through Pipes
-  Transportation Engineering – Highway Engineering, Railway Engineering
-  Building Materials & Construction – Concrete Technology, Masonry

#### Mechanical Engineering

- ✔ Thermodynamics – Laws of Thermodynamics, Heat Transfer, IC Engines
- ✔ Strength of Materials – Stress & Strain, Bending Moments, Shear Forces
- ✔ Manufacturing Process – Casting, Welding, Machining, CNC Machines
- ✔ Fluid Mechanics – Fluid Properties, Bernoulli's Theorem
- ✔ Engineering Drawing – Projections, Isometric Views

#### ⚡ Electrical & Electronics Engineering

- ✔ Circuit Theory – Network Theorems, AC & DC Circuits
- ✔ Electrical Machines – Transformers, Induction Motors, DC Machines
- ✔ Power Systems – Transmission & Distribution, Power Generation
- ✔ Digital Electronics – Logic Gates, Boolean Algebra, Flip-Flops
- ✔ Microprocessors – 8085/8086 Architecture, Assembly Language

#### 💻 Computer Science & IT

- ✔ Programming – C, C++, Java Basics
- ✔ Data Structures – Arrays, Linked Lists, Stacks & Queues
- ✔ Computer Networks – OSI Model, TCP/IP Basics
- ✔ Operating Systems – Basics, Process Management
- ✔ Database Management – SQL, Normalization

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#### 📌 Kerala LET Exam Pattern

Subject	Marks
Mathematics	20 Marks
Engineering Subjects	80 Marks
<b>Total</b>	<b>100 Marks</b>

📌 Exam Duration: 2 Hours

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


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#### 📌 Preparation Tips for Kerala LET

🎯 **Revise Diploma Subjects:** Focus on core engineering subjects from your diploma course.

🎯 **Strengthen Mathematics Concepts:** This section is scoring, so regular practice is key.

 **Solve Previous Year Papers: Get familiar with exam patterns and improve speed.**

 **Attempt Mock Tests: Helps in time management and builds confidence.**