

SRM Lateral Entry Syllabus for B.Tech 2nd-Year Admission

The SRM Lateral Entry program provides direct admission to the 2nd year of B.Tech for Diploma holders and B.Sc. graduates at SRM University. The syllabus is designed to assess Mathematical ability, Analytical & Logical Reasoning, and Core Engineering Subjects based on the candidate's diploma specialization.

Section-Wise Syllabus for SRM Lateral Entry

The exam consists of the following sections:

- Mathematics (40 Marks)
 - Analytical & Logical Reasoning (20 Marks)
 - Core Engineering Subjects (60 Marks)
-

Section 1: Mathematics (40 Marks)

This section tests fundamental mathematical skills.

Mathematics Topics

- Algebra – Matrices, Determinants, Equations
 - Differential Calculus – Limits, Differentiation, Maxima-Minima
 - Integral Calculus – Definite & Indefinite Integrals
 - Vector Algebra – Dot & Cross Product Applications
 - Probability & Statistics – Mean, Variance, Standard Deviation
 - Coordinate Geometry – Straight Lines, Circles, Parabola
-

Section 2: Analytical & Logical Reasoning (20 Marks)

This section evaluates logical and analytical thinking skills.

Topics Covered

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

Section 3: Core Engineering Subjects (60 Marks)

This section consists of branch-specific diploma subjects.

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, Pipe Flow

Electrical & Electronics Engineering

- Circuit Theory – AC/DC Circuits, Kirchhoff's Laws
- Electrical Machines – Transformers, Induction Motors
- Power Systems – Transmission & Distribution Basics
- Digital Electronics – Logic Gates, Boolean Algebra

Civil Engineering

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

Computer Science & IT

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

SRM Lateral Entry Exam Pattern

Subject	Marks
Mathematics	40 Marks
Analytical & Logical Reasoning	20 Marks
Core 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 SRM Lateral Entry

 Master Core Engineering Concepts: Diploma/B.Sc. subjects carry the highest weightage.

 Strengthen Mathematics & Logical Reasoning: These sections help in boosting the score.

 Solve Previous Year Papers: Get familiar with the exam pattern.

 Attempt Mock Tests: Improve speed and accuracy.