

Syllabus for Super 50 Test

(for new batches starting from 7th November, 2025)

28 September, 2025 (Sunday)

JEE COURSES

MEDICAL COURSES

FOUNDATION COURSES

for students currently in **Class 10th**

MAT

Verbal and Non-Verbal Series, Logical Sequence of Words, Verbal and Non-Verbal Analogy, Coding and Decoding, Arithmetical Reasoning, Alphabet Test, Puzzle Test, Mirror Images, Analytical Reasoning, Blood Relation, Dice and Cube, Grouping of Identical Figures, Calendar, Logical Venn Diagrams, Clock, Verbal and Non-Verbal Classification, Paper Folding and Paper Cutting, Ranking and Time Sequence, Figure Matrix, Data Sufficiency

SCIENCE

Motion, Force, Laws of Motion, Gravitation, Work and Energy, Sound, Light-Reflection and Refraction, Human Eye and Colourful World, Matter in Our Surroundings, Is Matter Around Us Pure, Structure of Atom, Atoms and Molecules, Chemical Reactions and Equations, Acid Base and Salts, Metals and Non-Metals

MATHEMATICS

Real Numbers, Rational Numbers, Number System, Profit and Loss, Percentage, Polynomials, Linear Equation in Two Variables, Lines and Angles, Triangles, Quadrilaterals, Parallelograms, Triangles, Circles, Heron's Formula, Surface Areas, Volumes, Statistics, Trigonometry (Basic), Probability

PATTERN **MAT:** 10 Questions | **Science:** 20 Questions | **Mathematics:** 10 Questions

for students currently in **Class 10th**

Chemical reactions: Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction.

Acids, bases and salts: Their definitions in terms of furnishing of H⁺ and OH⁻ ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of sodium hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.

Reflection and Refraction: Reflection of light at curved surfaces, Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. Refraction; laws of refraction, refractive index. Refraction of light by spherical lens, Image formed by spherical lenses, Lens formula (Derivation not required), Magnification. Power of a lens.

Human eye and colourful world: Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life.

Life processes: 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.

MAT

The mental ability test is to judge your power of reasoning, logical sequencing, reading comprehension.

PATTERN **Physics:** 10 Questions | **Chemistry:** 10 Questions | **Biology:** 20 Questions

for students currently in **Class 9th**

MAT

Verbal and Non-Verbal Series, Logical Sequence of Words, Verbal and Non-Verbal Analogy, Coding and Decoding, Arithmetical Reasoning, Alphabet Test, Puzzle Test, Mirror Images, Analytical Reasoning, Blood Relation, Dice and Cube, Grouping of Identical Figures, Calendar, Logical Venn Diagrams, Clock, Verbal and Non-Verbal Classification, Paper Folding and Paper Cutting, Ranking and Time Sequence, Figure Matrix, Data Sufficiency

MATHEMATICS

Rational Numbers, Linear Equation in One Variable, Quadrilaterals, Square and Square Roots, Cube and Cube Roots, Factorisation, Direct and Inverse Proportion, Comparing Quantities, Algebraic Expressions and Identities, Mensuration, Exponent and Powers, Number System, Polynomials, Linear Equation in Two Variables, Lines and Angles, Triangles, Profit and Loss, Percentage

SCIENCE

Motion, Force, Laws of Motion, Gravitation, Fluids, Matter in our Surroundings, Is Matter Around Us Pure, Atoms and Molecules, Cells, Tissues, Diversity in Living Organism

PATTERN **MAT:** 10 Questions | **Science:** 20 Questions | **Mathematics:** 10 Questions

for students currently in **Class 8th**

MAT

Verbal and Non-Verbal Series, Logical Sequence of Words, Verbal and Non-Verbal Analogy, Coding and Decoding, Arithmetical Reasoning, Alphabet Test, Puzzle Test, Mirror Images, Analytical Reasoning, Blood Relation, Dice and Cube, Grouping of Identical Figures, Calendar, Logical Venn Diagrams, Clock, Verbal and Non-Verbal Classification, Paper Folding and Paper Cutting, Ranking and Time Sequence, Figure Matrix, Data Sufficiency

MATHEMATICS

Integers, Fractions and Decimals, Simple Equations, Lines and Angles, Triangles, Congruence of Triangles, Comparing Quantities, Rational Numbers, Perimeter and Area, Algebraic Expressions, Exponents and Powers, Linear Equations in One Variable, Quadrilaterals, Square and Square Roots, Cube and Cube Roots, Factorization, Profit and loss, Percentage

SCIENCE

Crop Production and Management, Micro Organisms, Conservation of Plants and Animals, Cells, Force and Pressure, Friction, Sound, Synthetic Fibres and Plastics, Metals and Non-metals, Coal & Petroleum

PATTERN **MAT:** 10 Questions | **Science:** 10 Questions | **Mathematics:** 10 Questions

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28 September, 2025 (Sunday)

Note: Existing students cannot be re-enrolled / re-admitted through

FOUNDATION COURSES

for students currently in **Class 7th**

MAT

Verbal and Non Verbal Series, Logical Sequence of Words, Verbal and Non Verbal Analogy, Coding and Decoding, Arithmetical Reasoning, Alphabet Test, Puzzle Test, Mirror Images, Analytical Reasoning, Blood Relation, Dice and Cube, Group of Identical Figures, Calendar, Logical Venn Diagrams, Clock, Verbal and Non-Verbal Classification, Paper Folding and Paper Cutting, Ranking and Time Sequence, Figure Matrix, Data Sufficiency

MATHEMATICS

Integers, Fractions and Decimals, Lines and Angles, The Triangles and its Properties, Algebraic Expressions, Exponents and Powers, Data Handling

SCIENCE

Nutrition in Plants, Nutrition in Animals, Fibre to Fabric, Heat, Physical and Chemical Changes, Weather, Climate and Adaptations of Animals of Climate, Winds, Storms and Cyclones, Motion and Time, Light

PATTERN **MAT:** 10 Questions | **Science:** 10 Questions | **Mathematics:** 10 Questions