

# SYLLABUS for **NAT** National Admission Test

## for JEE, NEET & Foundation Courses

(for new batches starting from April, 2026)

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

### 1 Year Course for Students presently in Class 11<sup>th</sup> (JEE 2027)

#### PHYSICS

Units and Measurements, Vectors, Kinematics of a Particle, Motion in Two Dimensions, Dynamics of a particle, Energy and Momentum

#### CHEMISTRY

Stoichiometry, Atomic Structure, Periodicity, Chemical Bonding, Thermochemistry and Thermodynamics

#### MATHEMATICS

Sets, Relations, Functions, Quadratic Equations, Trigonometry, Sequence and Series, Complex Numbers, Permutation and Combination, Binomial Theorem

**PATTERN** Physics: 20 Questions | Chemistry: 20 Questions | Mathematics: 20 Questions

### 2 Year Course for Students presently in Class 10<sup>th</sup> (JEE 2028)

#### 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

#### MATHEMATICS

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

**PATTERN** MAT: 5 Questions | Science: 10 Questions | Mathematics: 20 Questions | Mathematics (Higher Level): 10 Questions

### 1 Year Course for Students presently in Class 11<sup>th</sup> (NEET 2027)

#### PHYSICS

Physical World, Units and Measurements, Motion in a Straight Line, Motion in a Plane, Laws of Motion, Work, Energy and Power

#### CHEMISTRY

Some Basic Concepts of Chemistry, Structure of Atom, Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure,

#### BIOLOGY

The Living World, Biological Classification, Plant Kingdom, Animal Kingdom, Morphology of Flowering Plants, Structural Organization in Animals, Cell-The Unit of Life, Biomolecules.

Organic Chemistry: Some basic Principles and Techniques

**PATTERN** Physics: 20 Questions | Chemistry: 20 Questions | Biology: 40 Questions

### 2 Year Course for Students presently in Class 10<sup>th</sup> (NEET 2028)

#### PHYSICS

Reflection and Refraction, Human Eye and Colourful World

#### CHEMISTRY

Chemical Reactions and Equations, Acids, Bases and Salts

#### BIOLOGY

Life Processes, Control and Coordination

#### 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

**PATTERN** MAT: 15 Questions | Physics: 25 Questions | Chemistry: 25 Questions | Biology: 25 Questions

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## for JEE, NEET & Foundation Courses

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### 3 Year Course for students presently in Class 9<sup>th</sup>

#### 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, Circles, 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, Matter in our Surroundings, Is Matter Around Us Pure?, Atoms and Molecules, Cells, Tissues

**PATTERN** MAT: 5 Questions | Mathematics: 20 Questions | Mathematics (Higher Level): 10 Questions | Science: 10 Questions

### 4 Year Course for students presently in Class 8<sup>th</sup>

#### 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, Combustion and Flame, Force and Pressure, Friction, Sound, Chemical Effects of Current, Coal & Petroleum

**PATTERN** MAT: 5 Questions | Mathematics: 20 Questions | Mathematics (Higher Level): 10 Questions | Science: 10 Questions

### Course for students presently in Class 7<sup>th</sup>

#### 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

Large Numbers Around Us, Arithmetic Expressions, Expressions Using Letters Numbers, Parallel and Intersecting Lines, Number Play, A Tale of 3 Intersecting Lines, Working with Fractions

#### SCIENCE

Nutrition in Plants, Nutrition in Animals, Respiration in Plants and Animals (Life Processes in Plants and Animals), Acids Bases and Salts (Exploring Substances - Acids, Basic and Neutral), Heat Transfer in Nature, Physical and Chemical Changes, Electric Current - Components and Effects, Motion and Time, Light

**PATTERN** MAT: 5 Questions | Mathematics: 30 Questions | Science: 15 Questions

### Course for students presently in Class 6<sup>th</sup>

#### MAT

Verbal and Non-Verbal Series, Logical Sequence of Words, Verbal and Non-Verbal Analogy, Coding and Decoding, Mirror Image and Water Image, Blood Relation, Paper Cutting and Folding, Verbal and Non-Verbal Classification, Figure Completion

#### MATHEMATICS

Patterns in Mathematics, Number Play, Integers, Fractions, Data Handling Techniques, Lines and Angles, Perimeter and Area, Symmetry

#### SCIENCE

Mindful eating a path to a healthy body, Living Creatures - Exploring their Characteristics, Exploring Magnets, Measurement of Length and Motion, Temperature and Its Measurement, Materials Around Us

**PATTERN** MAT: 5 Questions | Mathematics: 30 Questions | Science: 15 Questions

### Course for students presently in Class 5<sup>th</sup>

#### MAT

Verbal and Non-Verbal Series, Logical Sequence of Words, Verbal and Non-Verbal Analogy, Coding and Decoding, Mirror Image and Water Image, Blood Relation, Paper Cutting and Folding, Verbal and Non-Verbal Classification, Figure Completion

#### MATHEMATICS

Numbers and their Understanding, Fractions, Decimals, Estimation of Sum and Difference, Data Handling Techniques, Shapes and their Understanding, Basic Mensuration

#### SCIENCE

The Skeletal System, Force and Energy, States of Matter (Solid Liquid and Gaseous), Deficiency and Communicable Diseases, Food and its Components, Living Organisms characteristics and Habitats, From Tasting to Digesting, Renewable and Non-Renewable Resources, Natural Disasters

**PATTERN** MAT: 5 Questions | Mathematics: 30 Questions | Science: 15 Questions