FB4i Classes

IIT-JEE | NEET | FOUNDATION

FAST (FB4i ACHIEVERS SCHOLARSHIP TEST)

SYLLABUS & PATTERN

V CLASS — REASONING
- Patterns
- Alphabet Test
- Coding-Decoding
- Mirror Images
- Embedded Figures
- Geometrical Shapes and Solids
- Direction Sense Test
- Days and Dates & Possible Combinations
- Analogy and Classification
- General Questions

V CLASS — MATHEMATICS
- Number Sense
- Computation Operations
- Fractions and Decimals
- Measurements
- Angles
- Perimeter and Area
- Symmetry
- Data Handling
- General Maths
- Basic Geometrical Ideas

V CLASS — SCIENCE
- General Science
- Animals
- Human Body and Health
- Plants
- Natural Resources
- Pollution and Calamities
- Earth and Universe
- Matter
- Force, Work and Energy

VI CLASS — REASONING
- Patterns
- Analogy and Classification
- Coding-Decoding
- Geometrical Shapes
- Mirror Images
- Water Images
- Embedded Figures
- Direction Sense Test
- Ranking Test
- Alphabet Test and Logical Sequence of Words
- Puzzle Test
- General Questions

VI CLASS — MATHEMATICS
- Mensuration
- Algebra
- Symmetry
- Data Handling
- General Maths
- Basic Geometrical Ideas
- Knowing our Numbers
- Integers
- Fractions
- Decimals
- Whole Numbers
- Ratio And Proportion
- Playing with Numbers
- Understanding Elementary Shapes

VI CLASS — SCIENCE
- Food and Its Components
- Fibre to Fabric
- Sorting and Separation of Materials
- Changes Around Us
- The World of Living
- Our Environment
- Motion and Measurement of Distances
- Light, Shadows and Reflections
- Electricity and Circuits
- Fun with Magnets
- General Science

VII CLASS — REASONING
- Patterns
- Analogy and Classification
- Coding-Decoding
- Geometrical Shapes
- Puzzle Test
- Mirror Images
- Water Images
- Embedded Figures
- Direction Sense Test
- Mathematical reasoning
- Analytical reasoning
- Ranking Test
- Alphabet Test and Logical Sequence of Words
- General Questions

VII CLASS — MATHEMATICS
- Integers
- Fractions and Decimals
- Data Handling
- Simple Equations
- Lines and Angles
- The Triangle and its Properties
- Congruence of Triangles
- Comparing Quantities
- Rational Numbers
- Practical Geometry
- Perimeter and Area
- Algebraic Expressions
- Exponents and Powers
- Symmetry
- Visualising Solid Shapes
- General Maths
- Ratio & Proportion

VII CLASS — SCIENCE
- Nutrition in Plants and Animals
- Fibre to Fabric
- Heat
- Acids, Bases and Salts
- Physical and Chemical Changes
- Weather, Climate and Adaptations of Animals to Climate
- Winds, Storms and Cyclones
- Respiration in Organisms
- Transportation in Plants and Animals
- Reproduction in Plants
- Motion and Time
- Electric Current and its Effects
- Light
- General Science
- Natural Resources and Their Conservation

VIII CLASS — REASONING

- Patterns
- Analogy and Classification
- Coding-Decoding
- Geometrical Shapes
- Mirror Images
- Water Images
- Embedded Figures
- Direction Sense Test
- Mathematical reasoning
- Analytical reasoning
- Ranking Test
- Alphabet Test and Logical Sequence of Words
- Puzzle Test
- General Questions

VIII CLASS — MATHEMATICS

- Playing with Number
- Rational Numbers
- Linear Equations in One Variable
- Understanding Quadrilaterals
- Practical Geometry
- Data Handling
- Squares and Square Roots
- Cubes and Cube Roots
- Comparing Quantities
- Algebraic Expressions and Identities
- Visualising Solid Shapes
- Mensuration
- Exponents and Powers
- Direct and Inverse Proportions
- Factorisation
- Introduction to Graphs
- General Maths

VIII CLASS — SCIENCE

- Crop Production and Management
- Microorganisms
- Synthetic Fibres and Plastics
- Metals and Non-metals
- Coal and Petroleum
- Combustion and Flame
- Conservation of Plants and Animals
- General Science
- Cell
- Reproduction and Endocrine System
- Force and Pressure
- Friction
- Sound
- Chemical Effects of Electric Current
- Some Natural Phenomena
- Light
- Stars and the Solar System
- Pollution of Air and Water

IX CLASS — REASONING

- Patterns
- Analogy and Classification
- Coding-Decoding
- Geometrical Shapes
- Mirror Images
- Water Images
- Embedded Figures
- Direction Sense Test
- Mathematical reasoning
- Analytical reasoning
- Ranking Test
- Alphabet Test and Logical Sequence of Words
- Puzzle Test
- General Questions

IX CLASS — MATHEMATICS

- Number Systems
- Polynomials
- Coordinate Geometry
- Linear Equations in Two Variables
- Introduction to Euclid's Geometry
- Lines and Angles
- Triangles
- Quadrilaterals
- Areas of Parallelograms and Triangles
- Circles
- Constructions
- Heron's Formula
- Surface Areas and Volumes
- Statistics
- Probability
- General Maths

IX CLASS — SCIENCE

- Matter in Our Surroundings
- Is Matter Around Us Pure
- Atoms and Molecules
- Structure of Atom
- Cell - The Fundamental Unit of Life
- Motion
- Tissues
- Force and Laws of Motion
- Gravitation
- Work and Energy
- Sound
- Improvement in Food Resources
- General Science

X CLASS — REASONING

- Patterns
- Analogy and Classification
- Coding-Decoding
- Geometrical Shapes
- Mirror Images
- Water Images
- Embedded Figures
- Direction Sense Test
- Mathematical reasoning
- Analytical reasoning
- Ranking Test
- Alphabet Test and Logical Sequence of Words
- Puzzle Test
- General Questions

X CLASS — MATHEMATICS

- Real Numbers
- Polynomials
- Pair of Linear Equations in Two Variables
- Quadratic Equations
- Arithmetic Progressions
- Coordinate Geometry
- Introduction to Trigonometry
- Some Applications of Trigonometry
- Circles
- Constructions
- Areas Related to Circles
- Surface Areas and Volumes
- Statistics
- Probability
- General Maths
- Triangles

X CLASS — SCIENCE

- Chemical Reactions and Equations
- Acids, Bases and Salts
- Metals and Non-metals
- Carbon and its Compounds
- Control and Coordination
- Electricity
- Heredity and Evolution
- Light - Reflection and Refraction
- Human Eye
- Reproduction in Organisms
- Magnetic Effects of Electric Current
- Our Environment
- General Science
- Life Processes

XI CLASS — REASONING

- Blood Relation
- Coding-decoding
- Counting of Figure
- Cube & Dice
- Direction Sense
- Embedded Figure
- Missing Charater
- Mathematical Operation
- Siiting Arrangment
- Number Ranking
- Puzzle Test
- Calender
- Clock
- Syllogism

XI CLASS — PHYSICS

- Units and Measurements
- Motion in a Straight Line
- Motion in a Plane
- Laws of Motion
- Work, Energy and Power
- System of Particles and Rotational Motion
- Mechanical Properties of Solids
- Mechanical Properties of Fluids
- Thermal Properties of Matter
- Thermodynamics
- Kinetic Theory
- Oscillations
- Waves
- Gravitation

XI CLASS — CHEMISTRY

- Some Basic Concepts of Chemistry
- Structure of Atom
- Classification of Elements and Periodicity in Properties
- Chemical Thermodynamics
- Equilibrium
- Redox Reactions
- Organic Chemistry - Some Basic Principles and Techniques
- Hydrocarbons
- Chemical Bonding and Molecular Structure

XI CLASS — MATHEMATICS

- Sets
- Relations & Functions
- Trigonometric Functions
- Complex Numbers and Quadratic Equations
- Linear Inequalities
- Permutations and Combinations
- Binomial Theorem
- Sequence and Series
- Straight Lines
- Conic Sections
- Introduction to Three-dimensional Geometry
- Limits and Derivatives
- Statistics
- Probability

XI CLASS — BIOLOGY

- The Living World
- Biological Classification
- Plant Kingdom
- Animal Kingdom
- Morphology of Flowering Plants
- Anatomy of Flowering Plants
- Structural Organisation in Animals
- Cell-The Unit of Life
- Biomolecules
- Cell Cycle and Cell Division
- Photosynthesis in Higher Plants
- Respiration in Plants
- Plant - Growth and Development
- Breathing and Exchange of Gases
- Body Fluids and Circulation
- Excretory Products and their Elimination
- Locomotion and Movement
- Neural Control and Coordination
- Chemical Coordination and Integration

XII CLASS — REASONING

- Blood Relation
- Coding-decoding
- Counting of Figure
- Cube & Dice
- Direction Sense
- Embedded Figure
- Missing Charater
- Mathematical Operation
- Siiting Arrangment
- Number Ranking
- Puzzle Test
- Calender
- Clock
- Syllogism

XII CLASS — PHYSICS

- Electric Charges and Fields
- Electrostatic Potential and Capacitance
- Current Electricity
- Moving Charges and Magnetism
- Magnetism and Matter
- Electromagnetic Induction
- Alternating Current
- Electromagnetic Waves
- Ray Optics and Optical Instruments
- Wave Optics
- Dual Nature of Radiation and Matter
- Atoms
- Nuclei
- Semiconductor Electronics: Materials,Devices and Simple Circuits

XII CLASS — CHEMISTRY

- Solutions
- Electrochemistry
- Chemical Kinetics
- d and f Block Elements
- Coordination Compounds
- Haloalkanes and Haloarenes
- Alcohols, Phenols and Ethers
- Aldehydes, Ketones and Carboxylic Acids
- Amines
- Biomolecules

XII CLASS — MATHEMATICS

- Relations and Functions
- Inverse Trigonometric Functions
- Matrices
- Determinants
- Continuity and Differentiability
- Applications of Derivatives
- Integrals
- Applications of the Integrals
- Differential Equations
- Vectors
- Three - dimensional Geometry
- Linear Programming
- Probability

XII CLASS — BIOLOGY

- Sexual Reproduction in Flowering Plants
- Human Reproduction
- Reproductive Health
- Principles of Inheritance and Variation
- Molecular Basis of Inheritance
- Evolution
- Human Health and Diseases
- Microbes in Human Welfare
- Biotechnology - Principles and Processes
- Biotechnology and its Applications
- Organisms and Populations
- Ecosystem
- Biodiversity and its Conservation