

Syllabus for F-SAT'25

CLASS – 7th

SCIENCE

1. Electric Current and its Effects
2. Heat
3. Wind, Storm and Cyclone
4. Fiber to Fabric
5. Acids, Bases and Salt
6. Soil
7. Physical and Chemical Changes
8. Nutrition in plants
9. Nutrition in animals
10. Transportation in Animal and Plants

MATHEMATICS

1. Integer
2. Fraction and Decimal
3. Lines & Angles
4. Computing Quantities
5. Triangles and its Properties
6. Data Handling

GENERAL APTITUDE

CLASS- 8th

SCIENCE

PHYSICS

1. Force and Pressure
2. Friction
3. Chemical Effect of Electric Current
4. Sound

CHEMISTRY

5. Combustion and flame
6. Metals & Non-metals
7. Coal & Petroleum

BIOLOGY:

8. Crop Production & management
9. Microorganism : friend and foe
10. Conservation of plants and animals

MATHEMATICS

1. Rational Number
2. Linear equations in one variable
3. Understanding Quadrilaterals
4. Squares and square roots
5. Cubes and Cube roots
6. Mensuration
7. Exponents and Powers

GENERAL APTITUDE

Syllabus for F-SAT'25

CLASS –9th

SCIENCE

PHYSICS

1. Motion
2. Force Laws of Motion
3. Friction
4. Work energy power and collision

CHEMISTRY

5. Matter in our surroundings
6. Is matter around us pure?
7. Atoms and Molecules
8. Structure of Atom

BIOLOGY

9. Cell: The Fundamental Unit of Life

MATHEMATICS

1. Number System
2. Line & Angles
3. Triangles
4. Co-ordinate Geometry
5. Linear Equations in two variables
6. Polynomials
7. Introduction to Euclid's geometry

GENERAL APTITUDE

CLASS-10th

SCIENCE

PHYSICS

1. Electricity
2. Human Eye and colourful world
3. Light reflection and refraction

CHEMISTRY

1. Acid Bases, Salts
2. Chemical Reaction and Equation
3. Metal and Non-metal

BIOLOGY

1. Life processes
2. Control and coordination
3. How do organisms Reproduce

MATHEMATICS

1. Real numbers
2. Polynomials
3. Pair of linear equations in two variables
4. Quadratic equations
5. Arithmetic progressions
6. Triangles
7. Coordinate geometry

GENERAL APTITUDE

Syllabus for F-SAT'25

CLASS-11th

SCIENCE

PHYSICS

1. Units and measurement
2. Kinematics (1D and 2D)
3. Force and Laws of Motion
4. Friction
5. Work Power and Energy
6. Gravitation

CHEMISTRY

1. Some Basic Concepts of Chemistry
2. Structure of Atom
3. Classification of elements and Periodicity in Properties
4. Chemical Bonding and Molecular structure
5. Organic chemistry some basic properties and techniques

BIOLOGY

1. Biological classification
2. Plant kingdom
3. Cell a unit of life
4. Cell cycle and division
5. Structural organisation of animals
6. Anatomy of flowering plants
7. Chemical control and coordination
8. Photosynthesis in plants
9. Respiration in plants
10. Locomotion and movement

MATHEMATICS

1. Basic Maths
2. Logarithm
3. Sequence and Series
4. Trigonometry
5. Quadratic equations
6. Permutation and combination
7. Binomial theorem

GENERAL APTITUDE

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Syllabus for F-SAT'25

CLASS-12th

SCIENCE

PHYSICS

1. Charge and electric field
2. Electric potential and capacitance
3. Current electricity
4. Magnetism and magnetic material
5. Electromagnetic induction
6. Alternating Current

CHEMISTRY

1. Solutions
2. Electrochemistry
3. Chemical kinetics
4. D & F block elements
5. Coordination compounds
6. Halo alkanes & Haloarenes

BIOLOGY

1. The living world
2. Cell a unit of life
3. Plant kingdom
4. Morphology of flowering plants
5. Animal kingdom
6. Structural organisation of animals
7. Cell cycle and division
8. Anatomy of flowering plants
9. Breathing and exchange of gases
10. Photosynthesis in plants
11. Reproduction in flowering plants
12. Human reproduction
13. Molecular basis of inheritance
14. Principles of inheritance and variations
15. Microbes in human welfare
16. Biodiversity and its conservation
17. Evolution
18. Organisms and population
19. Ecosystem

MATHEMATICS

1. Calculus
2. Set Relation Function, limit
3. Continuity and differentiability
4. Maxima optimization and derivatives
Applications of derivatives,
5. Definite and indefinite integration and
its application
6. differential equations
7. Probability
8. Matrix and determinant

GENERAL APTITUDE

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