

## **BITSAT Syllabus**

The syllabus for BITSAT constitutes the topics covered in class 11 and 12 of the central boards such as CBSE, ISC and state boards. The subjects that come under the syllabus are Physics, Chemistry, Mathematics, Biology, English Proficiency and Logical Reasoning.

### **BITSAT 2021 Physics Syllabus**

Newton's Laws of Motion, Units & Measurement, Kinematics, Rotational Motion, Impulse and Momentum, Work and Energy, Oscillations, Gravitation, Mechanics of Solids and Fluids, Electrostatics, Waves, Heat and Thermodynamics, Electromagnetic Induction, Current Electricity, Magnetic Effect of Current, Electronic Devices, Optics, Modern Physics.

### **BITSAT 2021 Chemistry Syllabus**

Atomic Structure, States of Matter, Chemical Bonding & Molecular Structure, Physical and Chemical Equilibria, Thermodynamics, Electrochemistry, Surface Chemistry, Chemical Kinetics, Hydrogen and s-block Elements, Principles of Organic Chemistry and Hydrocarbons, P, d and f block elements, Stereochemistry, Biological, Industrial and Environmental Chemistry, Organic Compounds with Functional Groups Containing Oxygen and Nitrogen, Theoretical Principles of Experimental Chemistry

### **BITSAT 2021 Mathematics Syllabus**

Trigonometry, Algebra, Two-dimensional Coordinate Geometry, Differential calculus, Three-dimensional Coordinate Geometry, Integral calculus, Probability, Ordinary Differential Equations, Vectors, Linear Programming, Statistics, Mathematical Modelling

### **BITSAT 2021 Biology Syllabus**

Diversity in Living World, Cell: The Unit of Life; Structure and Function, Structure and Function of Plants, Structure and Function of Animals, Reproduction and Development in Humans, Ecology, Genetics and Evolution, Biotechnology and its Applications, Reproduction, Growth, and Movement in Plants, Environment, Biology and Human Welfare

**English Proficiency** - Grammar, Vocabulary, Reading Comprehension, Composition

### **Logical Reasoning**

Verbal Reasoning: Analogy, Classification, Series Completion, Logical Deduction – Reading Passage, Chart Logic Non-verbal Reasoning: Pattern Perception, Figure Formation and Analysis, Paper Cutting, Figure Matrix, Rule Detection