Physics

- Mechanics
- Gravitation
- Units and Measurement
- Electronics and Communication.
- Mechanics of Solids and Fluids
- Oscillations and Wave Motion
- Heat and Thermodynamics
- Electricity and Magnetism
- Ray and wave optics
- Dual nature of matter and nuclear physics
- Atomic Physics and Relativity

Chemistry

- States of matter
- Atomic structure
- Some basic concepts in chemistry
- Atomic structure
- Chemical families
- Periodic properties
- Chemical bonding
- Molecular structure
- Electrochemistry
- Solutions
- Chemical Equilibrium
- Surface chemistry
- Chemical kinetics and catalysis
- Hydrocarbons
- Some basic principles of Organic Chemistry
- Organic Compounds containing nitrogen
- Organic compounds containing oxygen
- Chemistry in everyday life
- Polymers

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Mathematics

- Matrices and determinants
- Quadratic equations
- Sets
- Relations and functions
- Complex numbers
- Permutations and combinations
- Applications of matrices and determinants
- Trigonometry
- Differential calculus
- Integral calculus
- Mathematical induction and its applications
- Sequences and series
- Applications of differential calculus
- Straight lines in two dimensions
- The conic section in two dimensions
- Circles in two dimensions
- Vector Algebra
- Measures of central tendency and dispersion
- Probability

English

The syllabus is according to the Class XII.

Biology

- Taxonomy of Angiosperm
- Plant Anatomy
- Cell Biology and Genetics
- Biotechnology
- Plant Physiology
- Biology in Human Welfare
- Human Physiology
- Microbiology
- Immunology

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- Modern Genetics and Animal Biotechnology
- Environmental Science
- Applied Biology
- Theories of Evolution

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