

PU CET Syllabus

Mathematics:

- Sets and Functions
- Algebra
- Co-ordinate Geometry
- Calculus
- Mathematical Reasoning
- Relations and Functions
- Vectors and Three-dimensional Geometry
- Linear Programming
- Probability

Physics:

- Physical-world and measurements
- Kinematics
- Laws of motion
- Work, Energy, and Power
- The motion of System of Particles and Rigid body
- Gravitation
- properties of bulk matter
- Thermodynamics
- Behaviour of perfect gas and kinetic theory
- Oscillation and Waves
- Electrostatics
- Current Electricity
- Magnetic Effects of Current and Magnetism
- Electromagnetic induction and alternating currents
- Electromagnetic waves
- Optics
- Dual nature of matter and radiation
- Atoms and Nuclei
- Electronic Devices
- Communication systems

Chemistry:

- Some Basic concepts of chemistry
- Structure of Atom
- Classification of Elements and Periodicity of properties

- Chemical bonding and molecular structure
- States of matter, gases, and liquids
- Thermodynamics
- Equilibrium
- Redox Reaction
- Hydrogen
- s-Block Elements
- Group 14 Elements
- Organic Chemistry
- Hydrocarbons
- Environmental Chemistry
- Solid State
- Solutions
- Electrochemistry
- Chemical Kinetics
- Surface Chemistry
- General Principles and processes of isolation of elements
- p- Block Elements
- d and f Block Elements
- Coordination Compounds
- Haloalkanes and Haloarenes
- Alcohols, Phenols, and Ethers
- Aldehydes, Ketones and Carboxylic Acids
- Organic Compounds Containing Nitrogen
- Biomolecules
- Polymers
- Chemistry in everyday life.

Biology

- Diversity in Living World
- Structural Organization in Animals and plants
- Cell Structure and Function
- Plant Physiology
- Human Physiology
- Reproduction
- Genetics and Evolution
- Biology and Human Welfare
- Biotechnology and its application
- Ecology and its environment

Biotechnology

- Introduction to Biotechnology
- Biomolecules
- Cell and Development
- Genetics and Molecular Biology
- Protein and Gene Manipulation
- Cell Culture and Genetic Manipulation

Computer Science

- Computer Fundamentals
- Introduction to C++
- Programming Methodology
- Programming in C++
- Programming in C++
- Data Structures
- Database Management System and SQL