

## HPCET 2019 Syllabus

Syllabus of HPCET 2019 gives candidates clarity on the topics and units from where questions were asked in the question paper. HPCET syllabus includes units and topics from Physics, Chemistry and Mathematics.

Physics	Chemistry	Mathematics
The laws of Motion Physics and Measurement Motions Rotation Work, Energy, and Power Theory of Gases Dynamics Properties of Solids and Liquids Oscillations and Waves Current Power The Dual Nature of Matter and Radiation Electromagnetic Induction and Alternating Current The Current and the Magnetic Effects of Magnetism Electronic Equipment Electromagnetic Waves Communication Systems Atoms and Nuclei	Matters States Atomic Structure Redox reactions and electricity Chemical kinetics Chemical Thermodynamics Chemical bonding and molecular structure Surface Chemistry Periods of properties and classification of the elements Isolation of principles and methodology metals S, p, d & f – Block Elements Co – Ordination compounds Refined and depiction of organic compounds Environmental Chemistry Some of the basic principle of organic chemistry Oxygen-containing organic compounds Chemistry of Everyday Life Nitrogen-rich organic compounds Practical chemistry-related principles	Complex Numbers and quadratic equations Set Relations and functions Sequences & Series Determinants of matrices Permutations and Combinations Mathematical induction Binomial theorem and its common applications Differential equations Integral Calculus Limit, continuity, and Differentiability Three-dimensional geometry Statistics and probability Mathematical reasoning Coordinate geometry Vector algebra Vector Calculus Numerical Methods Linear algebra Partial differential equations Complex variables Ordinary differential equations Probability and Statistics