

MP PMT Syllabus

Physics: Introduction and Measurement, Description of motion in one dimension, Description of motion in two and three dimension, Laws of Motion, Work, Energy and Power, Motion of System of Particles and Rigid Body Rotation, Gravitation, Mechanics of Solids and Fluids, Heat and Thermodynamics, Oscillation, Waves, Electro statics, Magnetic effect of current and magnetism, Electromagnetic induction and alternating current, Electromagnetic waves, Optics, Dual Nature of Matter and Radiations, Atomic Nucleus, Solids and Semi Conductor devices, Principles of Communication

Chemistry: Basic Concepts and Atomic Structure, Bonding and Molecular Structure, States of Matter, Periodic Properties of Elements and Hydrogen, S-Block Elements and Principle of Metallurgy, P-Block Elements, D-Block and F-Block Elements, Thermodynamics, Chemical Equilibrium, Solutions, Redox Reactions and Electrochemistry, Chemical Kinetics, Surface Chemistry, Coordination Compounds and organometallics, Basic Principles, Purification and Characterization of organic compounds, Hydrocarbons, Organic Reaction Mechanism, Stereochemistry, Organic compounds with functional groups containing halogens, Organic compounds with functional groups containing oxygen, Organic compounds with functional groups containing nitrogen, Polymers and biomolecules, Environmental Chemistry and Chemistry in everyday life.

Biology: Diversity in Human World, Plant Kingdom, Cell and Cell division, Physiology of Plants, Reproduction, Growth and Development, Ecology and Environment, Biotechnology, Origin and Evolution of Life, Animal Kingdom, Structural Organization of Body, Genetics, Physiology of Animals, Reproduction and Development of Animals, Biodiversity and Conservation, Biology in Human Welfare.