AMUEEE Syllabus

Physics Syllabus

- Physical World and Measurement
- Kinematics and Gravitation
- Work Energy and Power
- Laws of Motion and Optics
- Rigid Body and Motion of System of Particles
- Properties of Bulk Matter and Thermodynamics
- The behavior of Perfect Gas and Kinetic Theory
- Electrostatics and Current Electricity
- Magnetic Effects of Current and Magnetism
- Electromagnetic Induction and Alternating Currents
- Electronic Devices together with Electromagnetic Waves
- Dual Nature of Matter and Radiations
- Atoms & Nuclei
- Oscillations and Waves
- Communication Systems

Chemistry Syllabus

- Some basic concepts of Chemistry
- Structure of Atom and Equilibrium
- Classification of Elements and Periodicity in Properties
- Chemical Bonding and Molecular Structure
- Electrochemistry
- Chemical Thermodynamics and Hydrogen

- States of Matter: Gases and Liquid
- s-Block Elements (Alkali and Alkaline earth metals)
- Some p-Block Elements
- Organic Chemistry-Some Basic Principles and Techniques
- Hydrocarbons and Environmental Chemistry
- Solid-State and Solutions and Group 17 Elements
- Chemical Kinetics and Surface Chemistry
- General Principals and Processes of Isolation of Elements
- Block Elements and Group 16 Elements
- Organic Compounds containing Nitrogen
- Alcohols, Phenols, and Ethers
- d and f Block Elements and Lanthanoids
- Group 18 Elements and Actinoids
- Coordination Compounds
- Haloalkanes and Haloarenes
- Aldehydes, Ketones and Carboxylic Acids
- Biomolecules and Polymers
- Chemistry in everyday life

Mathematics Syllabus

- Sets, Relations and Functions and Trigonometric Functions
- The principle of Mathematical Induction
- Complex Numbers and Quadratic Equations
- Linear Inequalities and Binomial Theorem
- Permutations and Combinations
- Straight Lines and Calculus
- Sequence and Series
- Coordinate Geometry
- Probability and Conic Section

- Introduction to Three Dimensional Geometry
- Limits and Derivatives
- Mathematical Reasoning