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AUEET Syllabus

Mathematics

- Algebra
- Trigonometry
- Vector Algebra
- Measures Of Dispersion And Probability
- Coordinate Geometry
- Calculus

Physics

- Physical World
- Units And Measurements
- Motion In A Straight Line
- Motion In A Plane
- Laws Of Motion
- Work, Energy And Power
- System Of Particles And Rotational Motion
- Oscillations
- Gravitation
- Mechanical Properties Of Solids
- Mechanical Properties Of Fluids
- Thermal Properties Of Matter
- Thermodynamics
- Kinetic Theory
- Waves
- Ray Optics And Optical Instruments

- Wave Optics
- Electric Charges And Fields
- Electrostatic Potential And Capacitance
- Current Electricity
- Moving Charges And Magnetism
- Magnetism And Matter
- Electromagnetic Induction
- Alternating Current
- Electromagnetic Waves
- Dual Nature Of Radiation And Matter
- Atoms
- Nuclei
- Semiconductor Electronics: Materials, Devices And Simple
- Circuits
- Communication Systems

Chemistry

- Atomic Structure
- Classification Of Elements And Periodicity In Properties
- Chemical Bonding And Molecular Structure
- States Of Matter
- Stoichiometry
- Thermodynamics
- Chemical Equilibrium And Acids-bases
- Hydrogen And Its Compounds
- The S – Block Elements (Alkali And Alkaline Earth Metals)
- P- Block Elements Group 13 (Boron Family)
- P-block Elements – Group 14 (Carbon Family)
- Organic Chemistry-some Basic Principles And Techniques And
- Hydrocarbons
- Solid State

- Electrochemistry And Chemical Kinetics
- Surface Chemistry
- P-block Elements: Group-15 Elements
- D And F Block Elements & Coordination Compounds
- Biomolecules
- Haloalkanes And Haloarenes
- Organic Compounds Containing C, H, And O (Alcohols, Phenols,
- Ethers, Aldehydes, Ketones, And Carboxylic Acids)
- Organic Compounds Containing Nitrogen