

KCET I PUC Syllabus (Class 11 / 1st Year PUC)

Physics (I PUC)

- 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
- Gravitation
- Mechanical Properties of Solids
- Mechanical Properties of Fluids
- Thermal Properties of Matter
- Thermodynamics
- Kinetic Theory
- Oscillations and Waves

Chemistry (I PUC)

- Some Basic Concepts of Chemistry
- Structure of Atom
- Classification of Elements and Periodicity in Properties
- Chemical Bonding and Molecular Structure
- States of Matter: Gases and Liquids
- Thermodynamics
- Equilibrium
- Redox Reactions
- Hydrogen
- The s-Block Element

- Some p-Block Elements
- Organic Chemistry - Some Basic Principles and Techniques
- Hydrocarbons
- Environmental Chemistry

Mathematics (I PUC)

- Sets
- Relations and Functions
- Trigonometric Functions
- Principle of Mathematical Induction
- Complex Numbers and Quadratic Equations
- Linear Inequalities
- Permutations and Combinations
- Binomial Theorem
- Sequences and Series
- Straight Lines
- Conic Sections
- Introduction to Three-Dimensional Geometry
- Limits and Derivatives
- Mathematical Reasoning
- Statistics
- Probability

Biology (I PUC) (For Biology stream students)

- Diversity of Living Organisms
- Structural Organisation in Animals and Plants
- Cell Structure and Function
- Plant Physiology
- Human Physiology