

CLASS 11 JEE /NEET NCERT BASED SYLLABUS



IGNITING INGENIOUS MINDS

PHYSICS:

UNIT 0	PHYSICS AND MATHEMATICS
	0.1: Limits and Continuity
	0.2: Differentiation
	0.3: Integration
UNIT 1	0.4: Vectors Algebra
	PHYSICAL WORLD AND MEASUREMENT (INTRODUCTION TO PHYSICS _ HC VERMA)
	Chapter 1: Physical World
UNIT 2	Chapter 2: Units and Measurements
	KINEMATICS / REST AND MOTION: KINEMATICS (HC VERMA)
	Chapter 3: Motion in a Straight Line
UNIT 3	Chapter 4: Motion in a plane
	LAWS OF MOTION
	Chapter 5: Laws of motion
	5.1: The Force (HC Verma)
	5.2: Newton's Laws of Motion (HC Verma)
UNIT 4	5.3: Friction (HC Verma)
	5.4: Circular Motion (HC Verma)
UNIT 5	WORK, ENERGY AND POWER
	Chapter 6: Work Energy and Power
UNIT 6	MOTION OF SYSTEM OF PARTICLES AND RIGID BODY
	Chapter 7: System of particles and Rotational Motion
	7.1: Centre of Mass, Linear Momentum, Collisions (HC Verma)
UNIT 7	7.2: Rotational Mechanics (HC Verma)
	GRAVITATION
UNIT 8	Chapter 8: Gravitation
	8.1: Gravitation (HC Verma)
	PROPERTIES OF BULK MATTER
	Chapter 9: Mechanical Properties of Solids (Some mechanical Properties of matter (HC Verma))
	Chapter 10: Mechanical Properties of Fluids (Fluid Mechanics (HC Verma))
	Chapter 11: Thermal Properties of matter
	7.1: Heat and Temperature (HC Verma)
	7.2: Calorimetry (HC Verma)
7.3: Specific Heat capacity of gases (HC Verma)	
UNIT 9	7.4: Heat Transfer (HC Verma)
	THERMODYNAMICS
UNIT 10	Chapter 12: Thermodynamics

	8.1: Laws of Thermodynamics (HC Verma)
UNIT 9	BEHAVIOUR OF PERFECT GAS AND KINETIC THEORY
	Chapter 13: Kinetic Theory
	9.1: Kinetic Theory of Gases (HC Verma)
Unit 10	OSCILLATIONS AND WAVES
	Chapter 14: Oscillations
	10.1: Simple Harmonic Motion (HC Verma)
	Chapter 15: Waves
	10.2: Wave motion and waves on a string (HC Verma)
	10.3: Sound Waves (HC Verma)

CHEMISTRY:

I	PHYSICAL CHEMISTRY
UNIT 1	Chapter 1: Some Basic Concepts of Chemistry
	1.1: Stoichiometry (Chemical Formulae and Equation)
UNIT 2	Chapter 2: Structure of The Atom
UNIT 5	Chapter 5: States of Matter / Gaseous and Liquids
UNIT 6	Chapter 6: Thermodynamics
UNIT 7	Chapter 7: Equilibrium
UNIT 8	Chapter 8: Redox Reactions
	Volumetric Analysis (OP. Tendon)
II	IN-ORGANIC CHEMISTRY
UNIT 3	Chapter 3: Classification of Elements and Periodicity in Properties
UNIT 4	Chapter 4: Chemical Bonding and Molecular Structure
UNIT 9	Chapter 9: Hydrogen
UNIT10	Chapter 10: The s-Block Elements (Alkali and Alkaline Earth Metals)
	10.1: Alkali metals and Their compounds (Group IA or 1, ns^1)
	10.2: Alkaline Earth Metals and Their Compounds (Group IIA or 2, ns^2)
UNIT 11	Chapter 11: The p-Block Elements
	11.1: Elements of group IIIA or 13(The Boron Family, ns^2np^1)(Boron and Aluminium)
	11.2: Elements of group IVA or 14 (Elements of Carbon Family, ns^2np^2)
	Acids and Bases (Op Tendon)
III	ORGANIC CHEMISTRY
UNIT 12	Chapter 12: Organic Chemistry: Some Basic Principles and Techniques
	12.1: Introduction to organic chemistry
	12.2: Characterisation of organic compounds

	12.3: Classification and Nomenclature of organic compounds
	12.4: Isomerism
	12.5: Basic Principles of Organic Compounds
UNIT 13	Chapter 13: Hydrocarbons
	13.1: Saturated Aliphatic Hydrocarbon (Alkanes or Paraffins)
	13.2: Unsaturated Hydrocarbons (Alkenes (Olefins) and Alkynes (Acetylenes))
	13.3: Aromatic Hydrocarbons (Arenes) (Benzene and its Homologous)
UNIT 14	Chapter 14: Environmental Chemistry

MATHEMATICS:

UNIT 0	BASIC OF MATHEMATICS / PHYSICS
	0.1: Limits and Continuity
	0.2: Differentiation
	0.3: Integration
	0.4: Vectors Algebra
UNIT 1	SETS AND FUNCTIONS
	Chapter 1: Sets
	Chapter 2: Relations and Functions/ Logarithm/ Exponential and Logarithmic series
	Chapter 3: Trigonometric Functions
UNIT 2	ALGEBRA
	Chapter 4: Principle of Mathematical Induction
	Chapter 5: Complex Numbers and Quadratic Equations
	Chapter 6: Linear Inequalities / Algebraic Inequalities / Miscellaneous equation and Inequation
	Chapter 7: Permutation and Combinations
	Chapter 8: Binomial Theorem
	Chapter 9: Sequences and Series
UNIT 3	CO-ORDINATE GEOMETRY/ CARTISIAN CO-ORDINATE GEOMETRY
	Chapter 10: Straight Lines
	Chapter 11: Conic Sections
	Chapter 12: Introduction to Three-Dimensional Geometry
UNIT 4	CALCULUS
	Chapter 13: Limits and Derivatives
UNIT 5	MATHEMATICAL REASONING
	Chapter 14: Mathematical Reasoning

UNIT 6	STATISTICS AND PROBABILITY
	Chapter 15: Statistics
	Chapter 16: Probability

BIOLOGY:

UNIT 1	DIVERSITY IN LIVING WORLD
	Chapter 1: The Living World
	Chapter 2: Biological Classification
	2.1: Monera
	2.2: Protista
	2.3: Fungi
	2.4: Plantae (Plant Kingdom)
	2.5: Animalia (Animal Kingdom)
	2.6: Viruses
	Chapter 3: Plant Kingdom
	Chapter 4: Animal Kingdom
UNIT 2	STRUCTURAL ORGANISATION IN PLANTS AND ANIMALS
	Chapter 5: Morphology of Flowering Plants
	Chapter 6: Anatomy of Flowering Plants
	Chapter 7: Structural Organisation in Animals
	7.1: Animal Tissues
	7.2: Structural Organisation in Some Animals
UNIT 3	CELL STRUCTURE AND FUNCTIONS
	Chapter 8: Cell: The Unit of Life
	Chapter 9: Biomolecules
	Chapter 10: Cell Cycle and Cell Division
UNIT 4	PLANT PHYSIOLOGY
	Chapter 11: Transport in Plants
	Chapter 12: Mineral Nutrition
	Chapter 13: Photosynthesis in Higher Plants
	Chapter 14: Respiration in Plants

	Chapter 15: Plant Growth and Development
UNIT 5	HUMAN PHYSIOLOGY
	Chapter 16: Digestion and Absorption
	Chapter 17: Breathing and Exchange of Gases
	Chapter 18: Body Fluids and Circulation
	Chapter 19: Excretory Products and Their Elimination
	Chapter 20: Locomotion and Movement
	Chapter 21: Neural Control and Coordination
	Chapter 22: Chemical Coordination and Integration