

CLASS 12 JEE /NEET NCERT BASED SYLLABUS



IGNITING INGENIOUS MINDS

PHYSICS:

UNIT 1	ELECTROSTATICS
	Chapter 1: Electric Charges and Fields
	1.1: Electric Field and Potential (HC Verma)
	1.2: Gauss's Law (HC Verma)
	Chapter 2: Electrostatic Potential and Capacitance
1.3: Capacitors (HC Verma)	
UNIT 2	CURRENT ELECTRICITY
	Chapter 3: Current Electricity
	2.1: Electric Current in Conductors (HC Verma)
2.2: Thermal and Chemical Effects of Electric Current (HC Verma)	
UNIT 3	MAGNETIC EFFECTS OF CURRENT AND MAGNETISM
	Chapter 4: Moving Charges and Magnetism
	3.1: Magnetic Field (HC Verma)
	3.2: Magnetic Field due to a Current (HC Verma)
	Chapter 5: Magnetism and Matter
	3.3: Permanent Magnets (HC Verma)
3.4: Magnetic Properties of Matter (HC Verma)	
UNIT 4	ELECTROMAGNETIC INDUCTION AND ALTERNATIVE CURRENT
	Chapter 6: Electromagnetic Induction
	4.1: Electromagnetic Induction (HC Verma)
	Chapter 7: Alternating Current
4.2: Alternating Current (HC Verma)	
UNIT 5	ELECTROMAGNETIC WAVES
	Chapter 8: Electromagnetic Waves
	5.1: Electromagnetic Waves (HC Verma)
5.1: Light Waves (HC Verma)	
UNIT 6	OPTICS
	Chapter 9: Ray Optics and Optical Instruments
6.1: Geometrical Optics (HC Verma)	

	6.2: Optical Instruments
	Chapter 10: Wave Optics
	6.3: Dispersion and Spectra (HC Verma)
	6.4: Speed of Light (HC Verma)
	6.5: Photometry (HC Verma)
UNIT 7	DUAL NATURE OF MATTER AND RADIATION
	Chapter 11: Dual Nature of Radiation and Matter
	7.1: Photoelectric Effect and Wave-Particle Duality (HC Verma)
	7.2: Bohr's Model and Physics of the Atom
	7.3: X-Rays
UNIT 8	ATOMS AND NUCLEI
	Chapter 12: Atoms
	Chapter 13: Nuclei
	8.1: The Nucleus (HC Verma)
UNIT 9	ELECTRONIC DEVICES
	Chapter 14: Semiconductor Electronics Materials Devices and Simple Circuits
	9.1: Semiconductor and semiconductor Devices (HC Verma)
UNIT 10	COMMUNICATION SYSTEMS
	Chapter 15: Communication Systems
UNIT 11	Electric Current through Gases

CHEMISTRY:

I	PHYSICAL CHEMISTRY
UNIT 1	Chapter 1: The Solid State
UNIT 2	Chapter 2: Solutions
UNIT 3	Chapter 3: Electrochemistry
UNIT 4	Chapter 4: Chemical Kinetics
UNIT 5	Chapter 5: Surface Chemistry / Adsorption and Catalysis
	5.1: Colloidal State
	Radioactivity and Nuclear Transformation
II	IN-ORGANIC CHEMISTRY
UNIT 6	Chapter 6: General Principles and Processes of Isolation of Elements / Metallurgy/ General Principles of Extraction of Metals

UNIT 7	Chapter 7: The p Block Elements
	7.1: Elements of Group VA or 15 (Elements of Nitrogen and Phosphorus Family, ns^2np^3)
	7.2: Elements of Group VIA or 16 (The oxygen Family, ns^2np^4)
	7.3: Elements of Group VIIA or 17 (The Halogen Family, ns^2np^5)
	7.4: Elements of 18 or Zero Group (inert Gases or Noble Gases, ns^2np^6)
UNIT 8	Chapter 8: The d and f Block Elements
UNIT 9	Chapter 9: Coordination Compounds
III	ORGANIC CHEMISTRY
UNIT 10	Chapter 10: Haloalkanes and Haloarenes
UNIT 11	Chapter 11: Alcohols Phenols and Ethers
UNIT 12	Chapter 12: Aldehydes Ketones and Carboxylic Acids
UNIT 13	Chapter 13: Amines (Organic Compounds Containing Nitrogen
UNIT 14	Chapter 14: Biomolecules
UNIT 15	Chapter 15: Polymers
UNIT 16	Chapter 16: Chemistry in Everyday Life

MATHEMATICS:

UNIT 1	RELATIONS AND FUNCTIONS
	Chapter 1: Relations and Functions / Logarithm
	Chapter 2: Inverse Trigonometric Functions
UNIT- 2	ALGEBRA
	Chapter 3: Matrices
	Chapter 4: Determinants
UNIT - 3	CALCULUS
	Chapter 5: Continuity and Differentiability
	Chapter 6: Application of Derivatives
	Chapter 7: Integrals
	Chapter 8: Application of Integrals
	Chapter 9: Differential Equations
UNIT - 4	VECTORS AND 3-D GEOMETRY
	Chapter 10: Vector Algebra
	Chapter 11: Three-Dimensional Geometry
UNIT - 5	Chapter 12: Linear Programming
UNIT - 6	Chapter 13: Probability

BIOLOGY:

UNIT 6	REPRODUCTION
	Chapter 1: Reproduction in Organisms
	Chapter 2: Sexual Reproduction in Flowering Plants
	Chapter 3: Human Reproduction
UNIT 7	Chapter 4: Reproductive Health
	GENETICS AND EVOLUTION
	Chapter 5: Principles of Inheritance and Variation
	5.1: Mendelian Basis of Inheritance
	5.2: Chromosomal Basis of Inheritance
	5.3: Human Genetics
	Chapter 6: Molecular Basis of Inheritance
	6.1: Gene, Its Expression and Regulation
	Chapter 7: Evolution
	7.1: Origin of Life
	7.2: Evidences of Evolution
	7.3: Theories of Evolution
	7.4: Mechanism of Evolution
	7.5: Evolution of Human
UNIT 8	BIOLOGY IN HUMAN WELFARE
	Chapter 8: Human Health and Disease
	8.1: Basic Concept of Immunology
	8.2: Adolescence and Drug /Alcohol Abuse
	Chapter 9: Strategies for Enhancement in Food Production
	9.1: Animal Husbandry
	9.2: Plant Breeding and Tissue Culture
Chapter 10: Microbes in Human Welfare	
UNIT 9	BIOTECHNOLOGY
	Chapter 11: Biotechnology: Principles and Processes
	Chapter 12: Biotechnology and its Applications
UNIT 10	ECOLOGY
	Chapter 13: Organisms and Populations
	Chapter 14: Ecosystem
	Chapter 15: Biodiversity and Conservation
	Chapter 16: Environmental Issues