

BAGARIA BAL VIDYA NIKETAN

LAXMANGARH-SIKAR

SYLLABUS & LESSON PLANNER - 2024-25

CLASS -	XI
SUBJECT -	Chemistry
TEACHER NAME -	Sanjay Kumar Kumawat

SYLLABUS

Ch No.	Name of Books	Name of Chapter	Workin g Day	Period	Topic	Month	Week
Unit - I	N.C.E.R.T	Basic Concept of Chemistry	23	31	General introduction - Importance and Scope of Chemistry. Nature of Matter, laws of chemical combination, Dalton's atomic theory, concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry.	APRIL	1,2,3, 4
Unit - II		Structure of Atom	13	17	Discovery of E/P/n/atomic no. isotopes and isobars. Atomic modals Concept of orbitals. Quantum no. Shape of orbitals Rules for filling electrons	MAY	1,2, 3
Unit - III	N.C.E.R.T	Classification of Elements and Periodicity in Properties	11	15	History of the development of PT Modern PT Periodic trends in properties of elements-atomic radii, Ionization enthalpy, Electron gain enthalpy, EN, Valency	JUNE	1,2

					Nomenclature of elements.		
Unit - IV	N.C.E.R.T	Chemical Bonding and Molecular Structure	26	35	Valence electrons	JULY	1,2,3,4
					Types of bond		
					Bond parameter		
					VBT		
					Resonance		
					VSEPR		
					Hybridization		
MOT							
Unit - V	N.C.E.R.T	Chemical Thermodynamics	24	32	Concept of System, surroundings, work, heat, energy, state functions	AUGUST	1,2,3,4
					First law of Thermodynamics		
					Second law of Thermodynamics		
					Entropy		
					Spontaneous process		
					Third law of Thermodynamics		
Unit - VI	N.C.E.R.T	Equilibrium	23	31	Equilibrium	SEPTEMBER	1,2,3,4
					Chemical Equilibrium		
					Factors affecting Equ.		
					Ionic Equ.		
					Buffer solution		
					Solubility product		
Common Ion effect							
Syllabus Break due to Exam Period and Holidays in the month of October							
Unit - VII	N.C.E.R.T	Redox Reactions	23	31	Concept of oxidation and reduction	NOVEMBER	1,2,3,4
					Redox reactions		
					O.N, Balancing reactions		
					App. Of Redox Reactions		
Unit - VIII	N.C.E.R.T	Organic chemistry	23	31	General introduction	DECEMBER	1,2,3,4
					Method of Purification		
					IUPAC Nomenclature		
					Electronic displacement in a covalent bond		
					Fission of a Covalent bond		
					Types of organic reactions		
					Class. Of Hydrocarbons		
					Aliphatic Hyd.		

Unit - IX	N.C.E.R.T	Hydrocarbons	27	36	Alkanes, Alkenes, Alkynes - Nom., Stru., Methods of pre., Physical Pro., Chemical Pro.	JANUARY	1,2,3,4
					Aromatic Hydrocarbons - Nom., Stru., Methods of pre., Physical Pro., Chemical Pro.		
					Directive influence of functional groups		
					Carcinogenicity and toxicity.		