

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2025-26 (22.07.2025 to 24.11.2025)

Name of teacher: Ms. Rajwant Kaur

Subject: Chemistry (B-23-CHE-501)

Date	Day	Class... <u>B.Sc - III (Non)</u>	Class.....	Class.....
		Semester... <u>V</u>	Semester.....	Semester.....
22.07.2025	Tuesday	Orientation		
23.07.2025	Wednesday	Orientation		
24.07.2025	Thursday			
25.07.2025	Friday			
26.07.2025	Saturday			
28.07.2025	Monday	Introduction of co-ordination compound		
29.07.2025	Tuesday	Werner's theory of C.B. EAN chelates		
30.07.2025	Wednesday	nomenclature of C.C. Isomerism in C.C.		
31.07.2025	Thursday	Shaheed Udham Singh's Martyrdom Day		
01.08.2025	Friday			
02.08.2025	Saturday			
04.08.2025	Monday	Introduction of metal ligand Bonding in transition metal complex		
05.08.2025	Tuesday	Valence bond theory		
06.08.2025	Wednesday	Elementary idea of CFT		
07.08.2025	Thursday			
08.08.2025	Friday			
09.08.2025	Saturday	Raksha Bandhan		
11.08.2025	Monday	Introduction of magnetic properties of transition metal complexes.		
12.08.2025	Tuesday	type of magnetic materials		
13.08.2025	Wednesday	magnetic susceptibility method of determination spin only formula		
14.08.2025	Thursday	basic idea of L-S coupling		
15.08.2025	Friday	Independence Day		
16.08.2025	Saturday	Janamashtami		
18.08.2025	Monday	Introduction thermodynamic - II third law of thermodynamic		
19.08.2025	Tuesday	Nernst heat theorem		

Date	Day	Class.....	Class.....	Class.....
		Semester.....	Semester.....	Semester.....
20.08.2025	Wednesday	Statement of concept of residual entropy evaluation & absolute entropy		
21.08.2025	Thursday	Gibbs function and Helmholtz Function as thermodynamic quantities		
22.08.2025	Friday			
23.08.2025	Saturday			
25.08.2025	Monday	Variation of G with P, V, T , Partial molar properties		
26.08.2025	Tuesday	Concept of chemical potential		
27.08.2025	Wednesday	Introduction of phase Equilibria statement and the meaning of terms phase component		
28.08.2025	Thursday			
29.08.2025	Friday			
30.08.2025	Saturday			
01.09.2025	Monday	Gibbs rule, Phase equilibria of one component system		
02.09.2025	Tuesday	Simple Eutectic Pb-Ag system		
03.09.2025	Wednesday	Introduction of quantum mechanics-I Black body radiation law		
04.09.2025	Thursday	1		
05.09.2025	Friday			
06.09.2025	Saturday			
08.09.2025	Monday	Planck's radiation law, Explanation of spectral distribution of black body radiation.		
09.09.2025	Tuesday	on basis of classical mechanics. Heat capacity of solids		
10.09.2025	Wednesday	Postulates of quantum mechanics operator.		
11.09.2025	Thursday			
12.09.2025	Friday			
13.09.2025	Saturday			
15.09.2025	Monday	Schrodinger wave equation in one dimensional box.		
16.09.2025	Tuesday	Introduction of spectroscopy-I Electromagnetic radiation.		
17.09.2025	Wednesday	molecular spectroscopy noise ratio, resolving power		
18.09.2025	Thursday	04		
19.09.2025	Friday			
20.09.2025	Saturday			
22.09.2025	Monday	Maharaja Aggarasen Jayanti		
23.09.2025	Tuesday	Shaheedi Diwas/Haryana War Heroes' Martyrdom Day		

Date	Day	Class.....	Class.....	Class.....
		Semester.....	Semester.....	Semester.....
24.09.2025	Wednesday	Oppenheimer approximation concept of degree of freedom		
25.09.2025	Thursday			
26.09.2025	Friday			
27.09.2025	Saturday			
29.09.2025	Monday	Introduction of rotational spectrum rigid rotor, selection rule		
30.09.2025	Tuesday	Maxwell-Boltzmann distribution Determine of bond length and		
01.10.2025	Wednesday	Concept of isotopic effect.		
02.10.2025	Thursday	Mahatma Gandhi Jayanti/Dussehra		
03.10.2025	Friday			
04.10.2025	Saturday			
06.10.2025	Monday	Introduction of organic synthesis via Enolates		
07.10.2025	Tuesday	Maharishi Valmiki Jayanti/Maharaja Ajamidh Jayanti		
08.10.2025	Wednesday	Acidic of α -hydrogen, alkylation of dimethyl, malonate ethyl acetoacetate.		
09.10.2025	Thursday			
10.10.2025	Friday			
11.10.2025	Saturday			
13.10.2025	Monday	The Claisen Condensation Keto-enol tautomerism of ethyl acetoacetate.		
14.10.2025	Tuesday	Introduction molecular orbital picture and aromatic characteristics of pyrrole.		
15.10.2025	Wednesday	Furan, thiophene and pyridine		
16.10.2025	Thursday			
17.10.2025	Friday			
18.10.2025	Saturday			
19.10.2025 to 26.10.2025		Diwali Vacations		
27.10.2025	Monday	Chemical reaction of electrophilic substitution. Chemical reaction of nucleophilic substitution.		
28.10.2025	Tuesday	Reaction in pyridine derivatives Comparison of basicity of pyridine.		
29.10.2025	Wednesday	Piperidine and pyrrole.		
30.10.2025	Thursday			
31.10.2025	Friday			
01.11.2025	Saturday	Haryana Day		
03.11.2025	Monday	test		

Date	Day	Class.....	Class.....	Class.....
		Semester.....	Semester.....	Semester.....
04.11.2025	Tuesday	test		
05.11.2025	Wednesday	Guru Nanak Jayanti		
06.11.2025	Thursday			
07.11.2025	Friday			
08.11.2025	Saturday			
10.11.2025	Monday	revision		
11.11.2025	Tuesday	revision		
12.11.2025	Wednesday	test		
13.11.2025	Thursday			
14.11.2025	Friday			
15.11.2025	Saturday			
17.11.2025	Monday	revision		
18.11.2025	Tuesday	test		
19.11.2025	Wednesday	revision		
20.11.2025	Thursday			
21.11.2025	Friday			
22.11.2025	Saturday			
24.11.2025	Monday	test		
25.11.2025	Tuesday	Examination Onwards		

Rajwant Kaur

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2025-26 (22.07.2025 to 24.11.2025)

Name of teacher: Mrs. Rajwanti Kaur

Subject: Chemistry

Date	Day	Class: B.Sc.-I (N.M)	Class: B.Sc.-I (C.S)	Class: B.Sc.-II (N.M+C.S)
		Semester: I st...	Semester: I st...	Semester: III rd
22.07.2025	Tuesday	Orientation		
23.07.2025	Wednesday	Orientation		
24.07.2025	Thursday	Introduction of atomic str.		
25.07.2025	Friday	Dual behaviour of matter and radiation	Introduction of covalent Bond	
26.07.2025	Saturday	De-Broglie's relation		
28.07.2025	Monday			Introduction S, P Block elements
29.07.2025	Tuesday			hydrides, oxides, halides hydroxides of s block element
30.07.2025	Wednesday			str, preparation and properties of boraxine
31.07.2025	Thursday	Shaheed Udham Singh's Martyrdom Day		
01.08.2025	Friday	Heisenberg's uncertainty principle	Shapes of molecules and ions	
02.08.2025	Saturday	Concept of atomic orbitals		
04.08.2025	Monday	Significance of quantum no.		str, preparation and properties of diborane
05.08.2025	Tuesday			Catenation, Carbides, fluorocarbons, silicates
06.08.2025	Wednesday	radial and angular wave function		str of oxides of Nitrogen and phosphorous, Sulphur, Chlorine
07.08.2025	Thursday	normal and orthogonal wave functions		
08.08.2025	Friday	Significance of ψ^2	discuss valence bond theory	
09.08.2025	Saturday	Raksha Bandhan		
11.08.2025	Monday			Comparison of acidic strength of oxyacids
12.08.2025	Tuesday			low chemical reactivity of noble gases
13.08.2025	Wednesday			Chemistry of Xenon, str. and bonding in fluorides
14.08.2025	Thursday	Shapes of s, p, d, f orbitals		oxides and oxyfluorides of Xenon
15.08.2025	Friday	Independence Day		
16.08.2025	Saturday	Janamashtami		
18.08.2025	Monday			Introduction of electrochemistry
19.08.2025	Tuesday			-I electrolytic conduction. Factor affecting electrolytic conduction, specific conductance.

Date	Day	Class.....	Class.....	Class.....
		Semester.....	Semester.....	Semester.....
20.08.2025	Wednesday			
21.08.2025	Thursday	Rules for filling electrons in various orbitals		
22.08.2025	Friday	effective nuclear charge	and hybridization with suitable example	
23.08.2025	Saturday	Slater's rules		
25.08.2025	Monday			Kohlrausch's law
26.08.2025	Tuesday			concept of P_H and P_K
27.08.2025	Wednesday			Buffer soln, Buffer action
28.08.2025	Thursday	Introduction of Periodic table and atomic properties		Henderson - Hazel equation
29.08.2025	Friday	define of atomic and ionic radii	discuss square planar, tetrahedral, octahedral	Buffer mechanism of buffer action
30.08.2025	Saturday	Ionisation energy		
01.09.2025	Monday	electron affinity		Introduction of electrochemistry-II
02.09.2025	Tuesday	electronegativity		Reversible & irreversible cells
03.09.2025	Wednesday	trend in Periodic table		Calculation of thermodynamic quantities of cell reactions
04.09.2025	Thursday	electron affinity		types of reversible electrodes
05.09.2025	Friday	electronegativity	Introduction chemical kinetics	metal-metal ion
06.09.2025	Saturday	trend in periodic table		
08.09.2025	Monday	Pauling, Mulliken, Allred, Rochow and electronegativity		metal insoluble salt-anion and redox electrodes
09.09.2025	Tuesday			Nernst equation, Standard hydrogen electrode
10.09.2025	Wednesday			Reference electrode, Application of EMF measurements
11.09.2025	Thursday	Sanderson's electron density ratio		
12.09.2025	Friday	Introduction gaseous state	Concept of reaction rates	
13.09.2025	Saturday	Kinetic theory of gases	Rate reaction, Order	
15.09.2025	Monday			Introduction of alkynes
16.09.2025	Tuesday			Nomenclature and its structure
17.09.2025	Wednesday			methods of formation using calcium carbide
18.09.2025	Thursday	Maxwell's distribution of velocities, energies		dehydrohalogenation
19.09.2025	Friday	calculate of root mean square velocity	molecularity of a reaction	Kolbe's electrolysis
20.09.2025	Saturday	average, most probable velocity		chemical Rxn
22.09.2025	Monday	Maharaja Aggarwal Jayanti		
23.09.2025	Tuesday	Shaheed Diwas/Haryana War Heroes' Martyrdom Day		

Date	Day	Class.....	Class.....	Class.....
		Semester.....	Semester.....	Semester.....
24.09.2025	Wednesday			Symmetry elements optical activity
25.09.2025	Thursday	Collision diameter collision number		
26.09.2025	Friday	Collision frequency and mean free path	Integrated rate expression for 2 nd order	
27.09.2025	Saturday	Deviation of Real gases from ideal behaviour		
29.09.2025	Monday			Properties of enantiomers chiral and achiral molecules
30.09.2025	Tuesday			diastereomers, threo and erythro nomenclatures
01.10.2025	Wednesday			R and S System of nomenclature
02.10.2025	Thursday	Mahatma Gandhi Jayanti/Dussehra		
03.10.2025	Friday	Derivation of van der waal's equation	first order reactions	
04.10.2025	Saturday	Calculate of Boyle's temp.		
06.10.2025	Monday			Cis-trans Isomerism E & Z System
07.10.2025	Tuesday	Maharishi Valmiki Jayanti/Maharaja Ajamidh Jayanti		
08.10.2025	Wednesday			Conformational analysis of ethane and n-butane.
09.10.2025	Thursday	Its application in critical phenomena		Conformations of cyclohexane.
10.10.2025	Friday	Concept of C.T, C.P C.V relationship	Introduction of Alkanes nomenclature	
11.10.2025	Saturday	test		
13.10.2025	Monday			axial and equatorial bonds newman and sawhorse.
14.10.2025	Tuesday			Introduction benzene and its derivatives
15.10.2025	Wednesday			Nomenclature, aromatic nucleus, side chain
16.10.2025	Thursday	Introduction Str. and bonding		
17.10.2025	Friday	Localized, delocalized chemical bond	classification of Carbon atom in alkanes	
18.10.2025	Saturday	van der waals interactions concept of resonance		
19.10.2025 to 26.10.2025			Diwali Vacations	
27.10.2025	Monday			Huckel's rule, aromatic electrophilic substitution.
28.10.2025	Tuesday			mechanism of nitration halogenation, Sulphonation
29.10.2025	Wednesday			Friedel-Craft reaction. Alkyl halides
30.10.2025	Thursday	Its application, hyper conjugation, Inductive effect		
31.10.2025	Friday	Electromeric effect and their comparison	method of formation Wurtz reaction	
01.11.2025	Saturday	Haryana Day		
03.11.2025	Monday			methods of formation from alkenes and alcohol

Date	Day	Class.....	Class.....	Class.....
		Semester.....	Semester.....	Semester.....
04.11.2025	Tuesday			nucleophilic substitution reactions of alkyl halides
05.11.2025	Wednesday	Guru Nanak Jayanti		
06.11.2025	Thursday	homolytic and heterolytic bond fission		
07.11.2025	Friday	types of organic Rxn	Kolbe reaction Corey house Rxn	
08.11.2025	Saturday	Reactive intermediates Carbocations		
10.11.2025	Monday			SN ² and SN ¹ reactions with energy profile diagram
11.11.2025	Tuesday			Aryl halides, methods of formation
12.11.2025	Wednesday			halogenation Sandmeyer rxn the addition-elimination
13.11.2025	Thursday	Carbonious, free radicals Carbenes		
14.11.2025	Friday	Introduction liquid properties of liquid	decarbonylation of carboxylic acid.	
15.11.2025	Saturday	Introduction of solid state.		
17.11.2025	Monday			Relative reactivities of alkyl halides
18.11.2025	Tuesday			Revision
19.11.2025	Wednesday			test
20.11.2025	Thursday	Miller Indices, Seven crystal system, Bravais lattice		
21.11.2025	Friday	Bragg's method.	Intro. metallic bond, conductors, semiconductors, insulators.	
22.11.2025	Saturday	test		
24.11.2025	Monday			test
25.11.2025	Tuesday	Examination Onwards		

Rajwant Kaur