

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Even Semester)

Session 2025-26 (12.01.2026 to 05.05.2026)

Name of teacher: Mrs. Rajwant Kaur

Subject: chemistry

Date	Day	Class: B.Sc.-I (C.N.M)	Class: B.Sc.-I (C.C.S)	Class: B.Sc.-III (C.N.M+C.S)
		Semester: Ist.....	Semester: IInd....	Semester: VI sem
12.01.2026	Monday	Introduction of covalent bond		
13.01.2026	Tuesday	Shapes of simple inorganic molecules		
14.01.2026	Wednesday	VSEPR theory	Introduction of Periodic table and atomic properties	
15.01.2026	Thursday			Introduction Biomorganic chemistry
16.01.2026	Friday			Metal ions present in biological systems
17.01.2026	Saturday			Classification based on action
19.01.2026	Monday	hybridisation with suitable examples		
20.01.2026	Tuesday	Molecular orbital theory of homonuclear		
21.01.2026	Wednesday	M.O theory of heteronuclear	Ionisation energy, electron affinity, E _o N	
22.01.2026	Thursday			Metalloporphyrins with special reference to Hb and My
23.01.2026	Friday	Sir Chhotu Ram Jayanti/Basant Panchmi		
24.01.2026	Saturday			Biological role of Na ⁺ , K ⁺ , Ca ²⁺ , Mg ²⁺ , Fe ²⁺ ions
26.01.2026	Monday	Dipole moment and	Republic Day	
27.01.2026	Tuesday	Dipole moment and percentage ionic character		
28.01.2026	Wednesday	Test	trend in periodic table effective nuclear charge	
29.01.2026	Thursday			Cooperativity effect Bohr's effect
30.01.2026	Friday			Introduction of Photochemistry
31.01.2026	Saturday			Interaction of Radiation with matter
02.02.2026	Monday	Introduction of Ionic solids		
03.02.2026	Tuesday	radius ratio rule and limitations		
04.02.2026	Wednesday	Concept of lattice eng. Born-Haber cycle	Slater's rules Introduction of Ionic solids	

Date	Day	Class.....	Class.....	Class.....
		Semester.....	Semester.....	Semester.....
05.02.2026	Thursday			law of photochemistry Lambert -Beers law
06.02.2026	Friday			Photo laws
07.02.2026	Saturday			Calculation of Integrated absorption co-efficient
09.02.2026	Monday	Solvation energy and its relationships		
10.02.2026	Tuesday	Polarizing power		
11.02.2026	Wednesday	Fajan rule	Stoichiometric and non-stoichiometric	
12.02.2026	Thursday			Oscillator strength Concept of singlet and triplet states
13.02.2026	Friday			Jablonski diagram Phosphorescence and fluorescence
14.02.2026	Saturday			
16.02.2026	Monday	Introduction chemical kinetics		
17.02.2026	Tuesday	Concept of reaction rates, rate equation		
18.02.2026	Wednesday	Factor influencing the rate of reaction	Lattice energy and Born Haber cycle, Solvation energy	
19.02.2026	Thursday			Calculation of lifetime of excited states
20.02.2026	Friday			Quantum Yield Photosensitized Rxn
21.02.2026	Saturday			Introduction IR Spectroscopy
23.02.2026	Monday	order and molecularity of a reaction		
24.02.2026	Tuesday	Integrated rate expression for zero, first		
25.02.2026	Wednesday	Half life period of reaction Arrhenius equation	Its relationship with solubility of ionic solids	
26.02.2026	Thursday			Hooke's law, selection rules, intensity and Position of IR bands
27.02.2026	Friday			Fingerprint region characteristic absorption of various functional gp.
01.03.2026 to 8.03.2026		Holi Vacations		
09.03.2026	Monday	Introduction of distribution law its thermodynamic deriv.		
10.03.2026	Tuesday	Nernst distribution law after association - dissociation		
11.03.2026	Wednesday	Determination of degree of hydrolysis	Polarizing power and Polarisability of ions	
12.03.2026	Thursday			Interpretation of IR spectra of sample Org.

Date	Day	Class.....	Class.....	Class.....
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13.03.2026	Friday			Introduction NMR Spect. Principle of nuclear M.R
14.03.2026	Saturday			PMR spectrum, number of signals
16.03.2026	Monday	Hydrolysis constant of aniline hydrochloride.		
17.03.2026	Tuesday	Introduction Alkanes and cycloalkanes		
18.03.2026	Wednesday	Nomenclature, classification of C	Fajan's rule Introduction strand	
19.03.2026	Thursday	I'	Bonding in organic compounds.	Peak areas, equivalent and non-equivalent
20.03.2026	Friday			Proton positions of signals and chemical shift
21.03.2026	Saturday	Id-ul-Fitr		
23.03.2026	Monday	IS	Shaheedi Diwas	
24.03.2026	Tuesday	Isomerism in alkanes Sources, Methods of formation		
25.03.2026	Wednesday	Wurtz Rxn, Kolbe Rxn Corey-House Rxn	Localized and delocalized chemical bond	
26.03.2026	Thursday	Ram Navami		
27.03.2026	Friday			Shielding and deshielding of protons
28.03.2026	Saturday			Proton counting, splitting of signals
30.03.2026	Monday	Decarboxylation of carboxylic acids		
31.03.2026	Tuesday	Mahavir Jayanti		
01.04.2026	Wednesday	Physical properties Mechanism of free radical	Van der Waal's interactions resonance.	
02.04.2026	Thursday			Coupling constants, magnetic equivalence
03.04.2026	Friday			Discussion of PMR spectra of molecules
04.04.2026	Saturday			Introduction Amino acids, peptide.
06.04.2026	Monday	halogenation of alkanes, reactivity		
07.04.2026	Tuesday	Selectivity Nomenclature of cycloalkanes		
08.04.2026	Wednesday	Baeyer's strain theory and limitation	hyperconjugation, inductive effect	
09.04.2026	Thursday			Amino acids, peptides and their classification
10.04.2026	Friday			α -amino Acids Synthesis
11.04.2026	Saturday			Toxic properties and reactions.

Date	Day	Class.....	Class.....	Class.....
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13.04.2026	Monday	Introduction of alkenes methods of formation		
14.04.2026	Tuesday	Dr. B.R. Ambedkar Jayanti/Vaisakhi		
15.04.2026	Wednesday	the saytzeff rule and relative stabilities	electromeric effect and their comparison	
16.04.2026	Thursday			Zwitterions, pKa values, isoelectric point.
17.04.2026	Friday			electrophoresis, study of peptides
18.04.2026	Saturday			study of peptides N-protecting
20.04.2026	Monday	chemical reaction Markownikoff's rule		
21.04.2026	Tuesday	Introduction of Hydrogen Bonding and van der Waals		
22.04.2026	Wednesday	Metallic Bond and Semiconductors	Introduction Gaseous State Kinetic-theory of gases	
23.04.2026	Thursday			C-protecting and C-activating gp.
24.04.2026	Friday			Carbohydrates biological imp.
25.04.2026	Saturday			Mono saccharides - glucose and fructose
27.04.2026	Monday	Qualitative idea of valence bond and bond		
28.04.2026	Tuesday	theory Semiconductors types and application		
29.04.2026	Wednesday	test, revision	Calculation of root mean square and average velocity most probable velocity.	
30.04.2026	Thursday		Collision diameter, collision frequency and mean free path.	epimers, anomers Howorth projection
01.05.2026	Friday			Kiliani-Fischer Synthesis
02.05.2026	Saturday			revision, test
04.05.2026	Monday	Test, revision		
05.05.2026	Tuesday	test, revision		
06.05.2026	Wednesday	Examination onwards		

Rajwant Kaur

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Subject: Chemistry

Date	Day	Class: B.Sc.-II	Class:	Class:
		Semester: IV sem	Semester:	Semester:
12.01.2026	Monday			
13.01.2026	Tuesday	Introduction of d-block element		
14.01.2026	Wednesday	General characteristics Properties of d-block		
15.01.2026	Thursday	Comparison of Ionic radii 3d, 4d and 5d series		
16.01.2026	Friday			
17.01.2026	Saturday			
19.01.2026	Monday			
20.01.2026	Tuesday	Magnetic Properties Stability of various O.S		
21.01.2026	Wednesday	Lattice and Frost diagrams Structure of some compounds of tr. element		
22.01.2026	Thursday	TiO ₂ , VOCl ₂ , FeCl ₃ , CuCl ₂ and Ni(CO) ₄		
23.01.2026	Friday	Sir Chhotu Ram Jayanti/Basant Panchmi		
24.01.2026	Saturday			
26.01.2026	Monday	Republic Day		
27.01.2026	Tuesday	Introduction of f-block element Lanthanide contraction, O.S, Magnetic properties		
28.01.2026	Wednesday	Complex formation, colour and ionic radii		
29.01.2026	Thursday	Introduction of Actinides General characteristics		
30.01.2026	Friday			
31.01.2026	Saturday			
02.02.2026	Monday			
03.02.2026	Tuesday	Transuranic element Comparison of properties Ln		
04.02.2026	Wednesday	actinides with transition elements.		

Date	Day	Class.....	Class.....	Class.....
		Semester.....	Semester.....	Semester.....
05.02.2026	Thursday	Introduction theory of Qualitative and qualitative Analysis.		
06.02.2026	Friday			
07.02.2026	Saturday			
09.02.2026	Monday			
10.02.2026	Tuesday	chemistry of analysis of various groups of basic and acidic radicals.		
11.02.2026	Wednesday	chemistry of identification of acid radicals		
12.02.2026	Thursday	Common ion effect solubility product		
13.02.2026	Friday			
14.02.2026	Saturday			
16.02.2026	Monday			
17.02.2026	Tuesday	Introduction of thermodynamics - I First law of thermodynamic.		
18.02.2026	Wednesday	concepts of internal energy and enthalpy		
19.02.2026	Thursday	Heat capacity, heat capacity at constant volume.		
20.02.2026	Friday			
21.02.2026	Saturday			
23.02.2026	Monday			
24.02.2026	Tuesday	Joule-Thomson coefficient for ideal gas and real gas and inversion.		
25.02.2026	Wednesday	temp. Calculation of w, q, dU & dH		
26.02.2026	Thursday	Second law of thermodynamics - Carnot cycles and its efficiency.		
27.02.2026	Friday			
28.02.2026	Saturday			
01.03.2026 to 8.03.2026		Holi Vacations		
09.03.2026	Monday			
10.03.2026	Tuesday	Concept of entropy, entropy as a function of V & T , entropy as a function of P & T		
11.03.2026	Wednesday	Introduction of chemical equilibrium concept of equilibrium constant.		
12.03.2026	Thursday	Temp dependence of equilibrium constant Clausius - clapeyron equation		

Date	Day	Class.....	Class.....	Class.....
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13.03.2026	Friday			
14.03.2026	Saturday			
16.03.2026	Monday			
17.03.2026	Tuesday	Introduction Alcohols Monohydric alcohols-		
18.03.2026	Wednesday	methods of formation by reduction of aldehyde,		
19.03.2026	Thursday	Ketones, Carboxylic acid and esters.		
20.03.2026	Friday			
21.03.2026	Saturday	Id-ul-Fitr		
23.03.2026	Monday	Shaheedi Diwas		
24.03.2026	Tuesday	Acidic nature, Reaction of alcohols		
25.03.2026	Wednesday	Intro. of phenols Nomenclature str. and bonding.		
26.03.2026	Thursday	Ram Navami		
27.03.2026	Friday			
28.03.2026	Saturday			
30.03.2026	Monday	Preparation cumes, hydroperoxide method from diazonium salts.		
31.03.2026	Tuesday	Mahavir Jayanti		
01.04.2026	Wednesday	physical properties and acidic character chemical reactions.		
02.04.2026	Thursday	Electrophilic aromatic substitution. Mechanism of Friedel-Crafts rearrangement.		
03.04.2026	Friday			
04.04.2026	Saturday			
06.04.2026	Monday			
07.04.2026	Tuesday	Reimer-Tiemann reaction Kolbe's reaction		
08.04.2026	Wednesday	Introduction aldehydes and ketones		
09.04.2026	Thursday	Nomenclature and str. of the carbonyl group.		
10.04.2026	Friday			
11.04.2026	Saturday			

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		Semester.....	Semester.....	Semester.....
13.04.2026	Monday			
14.04.2026	Tuesday	Dr. B.R. Ambedkar Jayanti/Vaisakhi		
15.04.2026	Wednesday	Phenol, aldehydes and Knoevenagel condensations.		
16.04.2026	Thursday	Wittig reaction, Mannich Rxn. Bayes - Villiger oxidation ketone		
17.04.2026	Friday			
18.04.2026	Saturday			
20.04.2026	Monday			
21.04.2026	Tuesday	Cannizzaro Rxn, MPV Clemmensen and Wolff Kishner reductions.		
22.04.2026	Wednesday	test, revision		
23.04.2026	Thursday	revision		
24.04.2026	Friday			
25.04.2026	Saturday			
27.04.2026	Monday			
28.04.2026	Tuesday	Revision		
29.04.2026	Wednesday	Revision		
30.04.2026	Thursday	Test		
01.05.2026	Friday			
02.05.2026	Saturday			
04.05.2026	Monday			
05.05.2026	Tuesday	test.		
06.05.2026	Wednesday	Examination onwards		

Rajwant Kaur