

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (UG -NEP Second & Fourth Semester - Even Semester)

Session 2024-25 (08.02.2025 to 31.05.2025)

Name of teacher:

Subject.....Chemistry & Environment Studies (VAC)

Date	Class...B.Sc.I (Major) Semester...II.....	Class...B.Sc.II (Major) Semester...IV.....	Class.B.Sc.II & BCAI Semester...II..... (VAC)
08.02.2025	Introduction of Practical.	Examination	Chapter-1. Introduction
10.02.2025	VBT theory	Examination.	
11.02.2025	Hybridization concept.	Chapter-1-Introduction & Characteristics of d-block.	
12.02.2025	Guru Ravidass Jayanti		
13.02.2025	Different example of Hybridization.	Properties of d-block.	Multidisciplinary nature of EVS.
14.02.2025	Hybridization e.g.	Radio-Ionic comparison of 3d, 4d & 5d.	Scope & Importance of EVS.
15.02.2025	VSEPR Theory.	Preparation of Salicylic Acid.	Sustainability & Sustainable development
17.02.2025	E.g. of VSEPR Theory.	Magnetic properties of d-block.	
18.02.2025	Test of Hybridization.	Stability of Oxidation state.	
19.02.2025	Molecular Orbital Theory (N.O.)	Lattice & Host Diagram.	
20.02.2025	CO & NO on basis of MOT, dipole moment.	Structure of TiO ₂ & VO ₂ .	Chapter-2 - Definition & structure of ecosystem.
21.02.2025	Age ionic character & problems.	Preparation of m-nitroaniline.	Function of ecosystem; Energy flow
22.02.2025	Explanation of (P ₁) Viscosity Exp.	FeCl ₃ , CuCl ₂ & NiCl ₂ structure	Food Chain & Food Web.
24.02.2025	Test of VSEPR Theory.	Chapter-2. Introduction of lanthanides.	
25.02.2025	Chapter-2 Ionic structure (NaCl, CaCl ₂ , ZnS)	Lanthanides contraction.	
26.02.2025	Maha Shivratri		
27.02.2025	Ionic structure of CaF ₂ , Radius Ratio Rule.	Oxidation State & Magnetic Properties.	Forest Ecosystem, Grass-land, Desert & Aq. Ecosystem.
28.02.2025	Lattice energy, Born Haber cycle.	Introduction of mixture analysis.	Test of Chapter-1
01.03.2025	Viscosity Exp. (P ₂)	Complex formation Property	Chapter-3. Land Resources.
03.03.2025	Solvation energy, Polarising Power, Fajans's Rule.	Test of d-block	Forest Resources

(Signature)

04.03.2025	Test of MOT	Colours & Ionic Radii, Introduction of Actinoids	
05.03.2025	Chapter-3: Rate of Rx., Factors affecting Rate of Rx.	Transuranic Elements	
06.03.2025	Factor affecting Rate of Rx.	Comparison of Lanthanides & Actinides with d-block	Forest Resource.
07.03.2025	Order of Rx & molecularity.		Water Resource
08.03.2025	Viscosity Exp. (Pr.)	Mixture analysis (Pr.) - 1	Energy Resources
09.03.2025 to 16.03.2025		Holi Vacations	
17.03.2025	Zero Order & First Order Expression.	Chapter-3: Common Ion Effect.	
18.03.2025	Half life period & Arrhenius Eq.	Solubility product	
19.03.2025	Test of Zero Order & First Order Exp.	Analysis of Basic Radical (pI, II)	
20.03.2025	Chapter-4: - Nernst Distribution law,	Basic Radical, Grp. III, IV	Energy Resources
21.03.2025	Association & dissociation in Nernst law	Mixture analysis (Pr.) 2	Chapter-4: Biodiversity definition & types
22.03.2025	Viva of Viscosity Exp. (Pr.)	Basic Radical Group IV, V, VI	Endangered & endemic species.
24.03.2025	Determination of degree of hydrolysis.	Analysis of Acidic Radical.	Habitat loss, poaching, man-wildlife conflict.
25.03.2025	Hydrolysis constant of aniline. HCl.	Group - di. H_2SO_4 radical.	
26.03.2025	Test of Chemical Kinetics.	conc. H_2SO_4 gp. radical.	
27.03.2025	Chapter-5: Nomenclature of Alkanes.	Independent Radical.	biological Invasions, conservation.
28.03.2025	Classification of carbon Isomerism.	Mixture Analysis 3 (Pr.)	Ecosystem & biodiversity.
29.03.2025	Specific Refrac. (Pr.) - viva Exp.	Combination Radical.	Test of Chapter-3
31.03.2025	Id-ul-Fitr		
01.04.2025	Preparation - Wurtz Rx., Kolbe Rx.	Theory of precipitation, coprecipitation	Chapter
02.04.2025	Coxe-House Synthesis decarboxylation.	Post precipitation	
03.04.2025	Physical properties, Mech. of free radical	Purification of precipitates.	Chapter-5: Definitions & types of pollution & pollutant
04.04.2025	Reactivity & selectivity of alkanes.	Test of Basic Radical.	Air Pollution.
05.04.2025	Specific Refractivity Exp. (Pr.)	Mixture Analysis 4 (Pr.)	Water Pollution.
07.04.2025	Nomenclature of cycloalkanes.	Chapter-IV First law of Thermodynamics	
08.04.2025	Test of Wurtz Rx, Coxe-House & Kolbe's	Concept of Internal energy & enthalpy.	
09.04.2025	Bayen Strain Theory.	Heat capacity & variation with constant volume & pressure	

10.04.2025	Mahavir Jayanti		
11.04.2025	Theory of strain - less Rings.	Joule Thomson Coefficient ideal gas.	Soil Pollution
12.04.2025	Chapter-6 - Nomenclature of alkenes.	Joule Thomson Coefficient real gas.	Noise Pollution.
14.04.2025	Dr. B.R. Ambedkar Jayanti		
15.04.2025	Test of alkanes.	Inversion Temp - erature.	
16.04.2025	Preparation - dehy - dation of alcohol.	Calculation of $W, g, du \& dH$.	
17.04.2025	dehydrohalogenation of alkyl halides.	$W, g, du \& dH$ for adiabatic condition.	Solid Waste Management
18.04.2025	Hoffmann elimi - nation.	Mixture Analysis 5(Pt).	Climate Change, global warming, Ozone layer.
19.04.2025	TLC Exp (Pr)	Second law of thermo dynamics.	Ozone layer depletion, Acid Rain.
21.04.2025	Saytzeff Rule & stabilities of alkenes.	Carnot cycles.	
22.04.2025	Electrophilic & Rxn.	concept of entropy & func. of $V \& T$.	
23.04.2025	Addition of halo - gens.	Entropy as function of $P \& T$.	
24.04.2025	Addition of halo - gen acids.	Test of Chapter-4	Chapter-6 - Environ - ment Laws.
25.04.2025	Hydroboration & Oxidation.	Chapter-5 - Equilibrium constant.	Environment Protection law 1986, Air Pollution law 1987.
26.04.2025	Paper Chromato - (Pr) - graphy of cations.	Temperature depen - dence of Eq. constant.	Water Prevention Act - 1974.
28.04.2025	Oxymelcuration - reduction.	Clausius - Clapeyron Eq.	
29.04.2025	Parshu Ram Jayanti		
30.04.2025	Akshay Tritiya		
01.05.2025	Ozonolysis & Hydration.	Application of Clausius-Clapeyron.	Chapter-7 - Human population Impact on environment.
02.05.2025	Markownikoff's Rule.	Chapter-6. Nomenclature of Monohydric alcohol.	human health & Welfare.
03.05.2025	Test of Viscosity Exp (Pr)	Preparation of reduction of aldehyde, ketones.	Resettlement & rehabilita - tion of project affected person.
05.05.2025	Test of Preparation of alkenes.	Reduction of carbox - ylic acid & ester.	
06.05.2025	Chapter-7 Definition of H-bonding, type.	H-bonding, Acidic nature of alcohol.	
07.05.2025	Effects & Applica - tion of H-bonding.	Chemical Rx. of alcohol.	
08.05.2025	Vander Waal's. Posces.	Chemical Rx. of alcohol.	Test of Chapter-5.
09.05.2025	Chapter-8. Metallic Bond.	Viva of Prepara - tion.	Disaster Management, flood, Earthquake.
10.05.2025	Paper Chromato - graphy of anions. (Pr)	Chapter-7. Nomenclature structure & bonding in Phenol.	Cyclones, Landslides, & drought

16

12.05.2025	Test of H-bonding.	Preparation of Phenol.	
13.05.2025	Ideal of Valence Bond & Band theory.	Acidic character of Phenol.	
14.05.2025	Conductors, Insulators & Semi-conductors.	Chemical Rx. of Phenol.	
15.05.2025	Semi-conductors & types.	Chemical Rx of Phenol	Role of Indian Religion in Environment protection
16.05.2025	Application of Semi-conductors.	Mixture Analysis (I.I.) s/s - 6.	"
17.05.2025	Complexometric titrations (I.I.)	Chapter 8. Nomenclature & structure	"
19.05.2025	Test of Chemical properties of Alkenes	Preparation of aldehyde & ketone	
20.05.2025	Application of Semi-conductors	Nucleophilic addition Rx. of $>C=O$ gp.	
21.05.2025	Numericals of First order Rx.	Nucleophilic Rx. of $>C=O$ gp.	
22.05.2025	Test of Semi-conductors	Condensation, Oxidation. Rx.	Test of Chapter 7. Human Population.
23.05.2025	Revision.	Revision (I.I.)	Revision.
24.05.2025	Viva. (Revision)	Reduction of aldehydes & ketone	Revision.
26.05.2025	Revision	Revision	
27.05.2025	Revision	Revision	
28.05.2025	Revision.	Revision	
29.05.2025	Maharana Pratap Jayanti		
30.05.2025	Revision.	Viva. Revision (I.I.)	Revision
31.05.2025	Viva (Revision)	Revision	Revision
01.06.2025	Examination Onwards		

A4

Dayanand Mahila Mahavidyalaya, Kurukshetra
Lesson Plan (UG & PG Final Year - Even Semester)

Session 2024-25 (01.01.2025 to 30.04.2025)

Name of teacher: - Mrs. Asha

Subject... Organic Chemistry

Date	Class... <u>B.Sc. VI</u>	Class.....	Class.....
	Semester... <u>VI</u>	Semester.....	Semester.....
01.01.2025	Chapter-4 - Introduction, Types of Polymer Free Radical, Ionic, Chain growth.		
02.01.2025	Ziegler-Natta & Vinyl Polymers.		
03.01.2025			
04.01.2025			
06.01.2025	Guru Gobind Singh Ji Jayanti		
07.01.2025			
08.01.2025	Condensation polymers, Polyester Poly- amides, phenol formaldehyde resins		
09.01.2025	Natural & Synthetic Rubber.		
10.01.2025			
11.01.2025			
13.01.2025			
14.01.2025			
15.01.2025	Chapter-3 - Acidity of α -hydrogen, alkyla- tion of malonic ester.		
16.01.2025	Alkylation of ethyl acetoacetate, its synthesis.		
17.01.2025			
18.01.2025			
20.01.2025			
21.01.2025			
22.01.2025	Claisen Condensation, Ketoenol taut- omerism of ethyl acetoacetate.		
23.01.2025	Test of Chapter - Polymer.		
24.01.2025			
25.01.2025			

Ashu

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
27.01.2025			
28.01.2025			
29.01.2025	Heterocyclic Compounds - Molecular Orbital picture & aromatic character of pyrrole, furan, thiophene & pyridine.		
30.01.2025	Synthesis & chemical properties of pyrrole		
31.01.2025			
01.02.2025			
03.02.2025			
04.02.2025			
05.02.2025	Synthesis & chemical properties of furan,		
06.02.2025	Synthesis & chemical properties of thiophene.		
07.02.2025			
08.02.2025			
10.02.2025			
11.02.2025			
12.02.2025	Guru Ravidass Jayanti		
13.02.2025	Synthesis & properties of pyridine & mechanism of nucleophilic sub. rxn.		
14.02.2025			
15.02.2025			
17.02.2025			
18.02.2025			
19.02.2025	Test of Organic Synthesis via enolates		
20.02.2025	Comparison of basicity of pyridine, piperidine & pyrrole.		
21.02.2025			
22.02.2025			
24.02.2025			
25.02.2025			
26.02.2025	Maha Shivratri		

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
27.02.2025	Preparation of Indole		
28.02.2025			
01.03.2025			
03.03.2025			
04.03.2025			
05.03.2025	Preparation of quinoline, isoquinoline.		
06.03.2025	Test of pyrrole, furan, thiophene & pyridine (topics)		
07.03.2025			
08.03.2025			
09.03.2025 to 16.03.2025		Holi Vacations	
17.03.2025			
18.03.2025			
19.03.2025	Mechanism of electrophilic substitution rxn of quinoline & isoquinoline		
20.03.2025			
21.03.2025			
22.03.2025			
24.03.2025			
25.03.2025			
26.03.2025	Amino Acids, Peptides & Proteins - Classification Acid-Base behaviour, iso electric point.		
27.03.2025	Electrophoresis, Preparation of α -amino acids.		
28.03.2025			
29.03.2025			
31.03.2025	Id-ul-Fitr		
01.04.2025			
02.04.2025	Structure, nomenclature of peptides & proteins; classification of proteins		
03.04.2025	Peptide structure determination, end-group analysis, hydrolysis & classical peptide synthesis.		
04.04.2025			

14

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
05.04.2025			
07.04.2025			
08.04.2025			
09.04.2025	Solid phase peptide synthesis..		
10.04.2025	Mahavir Jayanti		
11.04.2025			
12.04.2025			
14.04.2025	Dr. B.R. Ambedkar Jayanti		
15.04.2025			
16.04.2025	Structure of peptides & proteins.		
17.04.2025	Primary & Secondary structure of proteins.		
18.04.2025			
19.04.2025			
21.04.2025			
22.04.2025			
23.04.2025	Revision		
24.04.2025	Revision.		
25.04.2025			
26.04.2025			
28.04.2025			
29.04.2025	Parshu Ram Jayanti		
30.04.2025	Akshay Tritiya		
01.05.2025	Examination Onwards		

Ag

Dayanand Mahila Mahavidyalaya, Kurukshetra
Lesson Plan (UG -NEP Second & Fourth Semester - Even Semester)

Session 2024-25 (08.02.2025 to 31.05.2025)

Name of teacher: Mrs Rajwant Kaur

Subject: Environmental Studies

Date	Class B.A.-I. (GP-2) B.Com (G), SFS, Voc, BTM Semester. 2nd....	Class B.A.-I. (GP-3) B.Com (G), BBA Semester. 2nd....	Class..... Semester.....
08.02.2025	Definition and Concept of Environment		
10.02.2025		Definition and Concept of environment	
11.02.2025		multidisciplinary nature of environment studies	
12.02.2025	Guru Ravidass Jayanti		
13.02.2025	Multidisciplinary nature of environment studies		
14.02.2025	Scope of Environmental Studies		
15.02.2025	Sustainable Development		
17.02.2025		Scope of Environmental Studies	
18.02.2025		Sustainable Development	
19.02.2025		Need for Public awareness Initiatives of Environment	
20.02.2025	Ecosystem, Ecology characteristics of Ecosystem		
21.02.2025	Classification of Ecosystem		
22.02.2025	Str components of an Ecosystem		
24.02.2025		Ecosystem Ecology characteristics of Ecosystem	
25.02.2025		Classification of Ecosystem	
26.02.2025	Maha Shivratri		
27.02.2025	Energy flow in the ecosystem		
28.02.2025	Function of an Ecosystem		
01.03.2025		Str components of an Ecosystem	
03.03.2025		Energy flow in the ecosystem	
04.03.2025		Function of an ecosystem	
05.03.2025		Food chain, Food web	

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
06.03.2025	Food chain, Food web		
07.03.2025	Ecological Succession		
08.03.2025	Major types of Ecosystem		
09.03.2025 to 16.03.2025		Holi Vacations	
17.03.2025		Ecological Succession	
18.03.2025		Major types of Ecosystem	
19.03.2025		Grassland Ecosystem	
20.03.2025	Grassland Ecosystem		
21.03.2025	Desert Ecosystem		
22.03.2025	Introduction Natural resources		
24.03.2025		Desert Ecosystem	
25.03.2025		Introduction Natural resources	
26.03.2025		Natural Resources	
27.03.2025	Nature resources and associated Problem		
28.03.2025	Land Resources		
29.03.2025	Forest Resources and test		
31.03.2025	Id-ul-Fitr		
01.04.2025		Dams, Land Resources	
02.04.2025		Forest Resources	
03.04.2025	Sustainable water management		
04.04.2025	Energy Resources		
05.04.2025	types of Energy Resources		
07.04.2025		Sustainable water management	
08.04.2025		Energy Resources	
09.04.2025		types of Energy Resources	
10.04.2025	Mahavir Jayanti		
11.04.2025	Introduction Biodiversity and its conservation		

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
12.04.2025	levels of Biodiversity		
14.04.2025	Dr. B.R. Ambedkar Jayanti		
15.04.2025		Introduction Biodiversity and its conservation	
16.04.2025		Levels of Biodiversity	
17.04.2025	Value of Biodiversity		
18.04.2025	threats to Biodiversity		
19.04.2025	Biological Invasion		
21.04.2025		Value of Biodiversity	
22.04.2025		Threats to Biodiversity	
23.04.2025		Biological Invasion	
24.04.2025	Introduction of Environmental Pollution		
25.04.2025	Pollutants, types		
26.04.2025	Air, water, thermal soil Pollution		
28.04.2025		Introduction of Environmental Pollution	
29.04.2025	Parshu Ram Jayanti		
30.04.2025	Akshay Tritiya		
01.05.2025	Noise, Marine, Nuclear Hazards Pollution		
02.05.2025	Solid waste management		
03.05.2025	types, classification Discarding wastes		
05.05.2025		Pollutants, types	
06.05.2025		Air, water, thermal soil Pollution	
07.05.2025		Noise, marine, Nuclear Hazards Pollution	
08.05.2025	Introduction climate change and Global warming		
09.05.2025	Climate, Global warming		
10.05.2025	Acid Rain		
12.05.2025		Solid waste management	
13.05.2025		types, classification Discarding wastes	

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
14.05.2025		Introduction climate change and global warming	
15.05.2025	Ozone layer Depletion		
16.05.2025	Impacts of Human communities		
17.05.2025	Nuclear Accidents		
19.05.2025	Waste Land Reclamation		
20.05.2025		Climate, Global warming	
21.05.2025		Acid Rain, test	
22.05.2025		Solid waste management types, classification, Discards waste	
23.05.2025		Ozone layer Depletion	
24.05.2025		Impact of Human Communities	
26.05.2025	Introduction of Environment Policies and Practices		
27.05.2025	Air, Environmental protection		
28.05.2025	Population and Environment		
29.05.2025		Nuclear Accidents waste land Reclamation	
30.05.2025		Introduction of Environment Policies and Practices	
31.05.2025		Air protection, Population, Resettlement and Rehabilitation, Disaster management	
01.06.2025		Maharana Pratap Jayanti	
	Resettlement and Rehabilitation		
	Disaster management		
	Examination Onwards		

Rajwant Kaur

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (UG -NEP Second & Fourth Semester - Even Semester)

Session 2024-25 (08.02.2025 to 31.05.2025)

Name of teacher: Mrs Rajwant Kaur

Subject: Chemistry minor, Chem (Voc)

Date	Class.B.Sc.-1 st (C.S) Chem (minor)	Class.B.Sc.-3 rd Sem (N.M) Chem (Voc)	Class.....
	Semester...2 nd ...	Semester...3 rd	Semester.....
08.02.2025	Introduction of periodic table and atomic properties	Introduction Unit I	
10.02.2025	Atomic and ionic radii		
11.02.2025		Plants as Producers Photosynthesis	
12.02.2025	Guru Ravidass Jayanti		
13.02.2025		Pesticides, herbicides Insecticide, fungicide	
14.02.2025		Storage and preservation of agriculture produce	
15.02.2025	Ionisation energy, electron affinity, electronegativity definition	food processing	
17.02.2025			
18.02.2025		chemical from agriculture waste	
19.02.2025	trend in periodic table, effective nuclear	Use of Polymers in charge agriculture	
20.02.2025		Introduction Soil fertility and productivity	
21.02.2025		urea cycle, organic and inorganic nitrogen	
22.02.2025	Slater's rules	Haber Bosch Process	
24.02.2025	Introduction ionic solids	nutrients - functions and deficiency symptoms	
25.02.2025	Stoichiometric and non - stoichiometric defects	micronutrients → critical limits	
26.02.2025	Maha Shivratri		
27.02.2025		Plants and factors affecting their availability	
28.02.2025		correction of their deficiencies in plants	
01.03.2025	Stoichiometric and non - stoichiometric defects	Role of chelates in nutrients availability	
03.03.2025	Lattice energy and Born Haber cycle		
04.03.2025		Revision and test	
05.03.2025	Solvation energy and its relationship with solubility of Ionic Solids	Introduction Unit -III	

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
06.03.2025		chemical composition of the earth's crust and soils	
07.03.2025		chemistry of acid active and potential acidity	
08.03.2025	Polarizing power and Polarizability of ions	lime potential	
09.03.2025 to 16.03.2025		Holi Vacations	
17.03.2025	Fajan's rule		
18.03.2025		test and Revision	
19.03.2025	Introduction Structure and Bonding in organics	chemistry of acid soils	
20.03.2025		Sub-soil acidity	
21.03.2025		chemistry of salt affected soils	
22.03.2025	Localized and delocalized chemical bond	Soils, amendment	
24.03.2025	Van der waal's interactions		
25.03.2025		Soil PH, Pce, Esp SAR	
26.03.2025	Resonance, conditions and resonance effect.	Important relations	
27.03.2025		Soil management	
28.03.2025		amendment	
29.03.2025	Hyperconjugation, Inductive effect	test	
31.03.2025	Id-ul-Fitr		
01.04.2025		Introduction - Unit IV	
02.04.2025	Electromeric effect & their comparison	Nature and sources of pollutants acid rains	
03.04.2025		oil spills etc	
04.04.2025		air, water and soil pollutants	
05.04.2025	Introduction gaseous state	their CPC standards	
07.04.2025	Kinetic theory of gases		
08.04.2025		effect on plants animals and human beings	
09.04.2025	Calculation of Root mean square velocity	sewage and industrial effluents - their composition	
10.04.2025		Mahavir Jayanti	
11.04.2025		effect on soil properties	

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
12.04.2025	average velocity and most probable velocity	health and plant growth and human beings	
14.04.2025		Dr. B.R. Ambedkar Jayanti	
15.04.2025		soil as sink for	waste disposal
16.04.2025	collision diameter	Revision	
17.04.2025	collision number	test	
18.04.2025		Revision	
19.04.2025	collision frequency and mean free path	Revision	
21.04.2025	test	test	
22.04.2025		test	
23.04.2025	revision	Revision	
24.04.2025		Revision	
25.04.2025		Revision of Unit-I	
26.04.2025	test	Revision	
28.04.2025	revision		
29.04.2025		Parshu Ram Jayanti	
30.04.2025		Akshay Tritiya	
01.05.2025		Revision of Unit-I	
02.05.2025		test	
03.05.2025	Revision	test	
05.05.2025	test		
06.05.2025		Revision	
07.05.2025	Revision	test	
08.05.2025		Revision of Unit-II	
09.05.2025		Revision	
10.05.2025	Revision	test	
12.05.2025	test	Revision	
13.05.2025		test	

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
14.05.2025	Revision		
15.05.2025		test	
16.05.2025		Revision	
17.05.2025	test	Revision	
19.05.2025	Revision	Revision	
20.05.2025		Revision	
21.05.2025	Revision	Revision	
22.05.2025			
23.05.2025		Revision	
24.05.2025	Revision	test	
26.05.2025	Revision	test	
27.05.2025		test	
28.05.2025	Revision	Revision	
29.05.2025	Maharana Pratap Jayanti		
30.05.2025		Revision	
31.05.2025	Revision	Revision	
01.06.2025	Examination Onwards		

Rajwant Kaur

Dayanand Mahila Mahavidyalaya, Kurukshetra
Lesson Plan (UG & PG Final Year - Even Semester)
Session 2024-25 (01.01.2025 to 30.04.2025)

Name of teacher: Mrs Rajwant Kaur
 Subject.....Inorganic, Physical chemistry

Date	Class.....B.Sc.-III	Class.....	Class.....
	Semester...VI th	Semester.....	Semester.....
01.01.2025			
02.01.2025			
03.01.2025	Introduction to statistical mechanics		
04.01.2025	thermodynamic probability		
06.01.2025	Guru Gobind Singh Ji Jayanti		
07.01.2025	Introduction of organometallic chemistry		
08.01.2025			
09.01.2025			
10.01.2025	Maxwell-Boltzmann distribution statistics		
11.01.2025	Born-oppenheimer approximation, partition function and its physical significance		
13.01.2025	Definition, nomenclature and classification of organometallic compounds		
14.01.2025	Preparation, properties and bonding of alkyls of Li		
15.01.2025			
16.01.2025			
17.01.2025	Factorization of partition function		
18.01.2025	Revision		
20.01.2025	bonding of Al, Hg and Sn		
21.01.2025	A - brief account of metal-ethylene complexes		
22.01.2025			
23.01.2025			
24.01.2025	Introduction photochemistry Interaction of radiation with matter		
25.01.2025	difference b/w thermal and photochemical processes		

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
27.01.2025	mononuclear carbonyls and the nature of bonding in metal carbonyls		
28.01.2025	test		
29.01.2025			
30.01.2025			
31.01.2025	Laws of photochemistry		
01.02.2025	Jablonski diagram depicting various processes occurring in excited state		
03.02.2025	Revision of organometallic compounds		
04.02.2025	Introduction of Acids and bases, HSAB concept.		
05.02.2025			
06.02.2025			
07.02.2025	qualitative description of fluorescence, phosphorescence		
08.02.2025	non-radiative processes, quantum yield.		
10.02.2025	Arrhenius, Bronsted-Lowry, the Lux-Flood.		
11.02.2025	Solvent system.		
12.02.2025	Guru Ravidass Jayanti		
13.02.2025			
14.02.2025	photosensitized reaction-energy transfer processes		
15.02.2025	test.		
17.02.2025	Lewis concepts of acids and bases		
18.02.2025	relative strength of acids and bases		
19.02.2025			
20.02.2025			
21.02.2025	Introduction solution, Dilute solutions and colligative properties		
22.02.2025	Ideal and non-ideal solution, methods of expressing conc of soln.		
24.02.2025	concept of Hard and soft acids & Bases		
25.02.2025	Revision		
26.02.2025	Maha Shivratri		

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
27.02.2025			
28.02.2025	Dilute sol ⁿ , Raoult's law, colligative properties		
01.03.2025	ci) relative lowering of vapour pressure		
03.03.2025	Elevation in boiling point, depression in freezing point		
04.03.2025	osmotic pressure test		
05.03.2025	Introduction of Bioinorganic chemistry		
06.03.2025	Essential and trace elements in biological processes		
07.03.2025			
08.03.2025	Thermodynamic derivation of relation b/w amount of solute and elevation in boiling point and depression in freezing Pt		
09.03.2025 to 16.03.2025	Application in calculating molar masses of normal		
09.03.2025 to 16.03.2025		Holi Vacations	
17.03.2025	metalloprophyrins with special reference to haemoglobin		
18.03.2025	myoglobin.		
19.03.2025	Revision		
20.03.2025			
21.03.2025	dissociated and associated solutes in solution.		
22.03.2025	test.		
24.03.2025	Biological role of alkali and alkaline earth metal ion		
25.03.2025	Special reference to Ca ²⁺		
26.03.2025			
27.03.2025			
28.03.2025	Introduction of phase Equilibrium		
29.03.2025	statement and meaning of the terms -Phase		
31.03.2025	Id-ul-Fitr		
01.04.2025	Nitrogen fixation.		
02.04.2025			
03.04.2025			
04.04.2025	Component and degree of freedom		

Date	Class.....	Class.....	Class.....
	Semester.....	Semester.....	Semester.....
05.04.2025	thermodynamic derivation of Gibbs phase rule Phase equilibria of one component system example - water system		
07.04.2025	Introduction of Silicones and phosphazenes as examples of inorganic polymers.		
08.04.2025	Nature of bonding in triphosphazenes		
09.04.2025			
10.04.2025	Mahavir Jayanti		
11.04.2025	phase equilibria of	two Component system	Solid-liquid
12.04.2025	equilibria. Simple eutectic example Pb-Ag system		
14.04.2025	Dr. B.R. Ambedkar Jayanti		
15.04.2025	Revision		
16.04.2025			
17.04.2025			
18.04.2025	desilverisation of lead		
19.04.2025	Revision		
21.04.2025	test		
22.04.2025	Revision		
23.04.2025			
24.04.2025			
25.04.2025	Revision		
26.04.2025	test		
28.04.2025	Revision		
29.04.2025	Parshu Ram Jayanti		
30.04.2025	Akshay Tritiya		
01.05.2025	Examination Onwards		

Rajwant Kaur