

Dayanand Mahila Mahavidyalaya, Kurukshetra**Lesson Plan (Even Semester)**

Session 2023-24 (01.01.2024 to 30.04.2024)

Name of Teacher: Mrs.Asha Malik

Subject : Chemistry

Day	Date	Class : B.Sc. III (N.M.)	Class : B.Sc. III (N.M.)
		Semester : VI(Organic Chemistry)	Semester : VI (Inorganic Chemistry)
Monday	01.01.2024		Chapter - Bio inorganic Chemistry - Essential and traces elements in biological processes
Tuesday	02.01.2024		
Wednesday	03.01.2024	Chapter - Heterocyclic Compounds: Introduction, Pyrrole- molecular orbital, aromatic character, methods of formation, Chemical reactions	
Thursday	04.01.2024	Furan - molecular orbital, aromatic character, methods of formation, Chemical reactions	
Friday	05.01.2024		
Saturday	06.01.2024		
Monday	08.01.2024		metalloporphyrins with special reference to myoglobin and haemoglobin
Tuesday	09.01.2024		
Wednesday	10.01.2024	Thiophene- molecular orbital, aromatic character, methods of formation, Chemical reactions	
Thursday	11.01.2024	Pyridine molecular orbital, aromatic character, methods of formation, Chemical reactions	
Friday	12.01.2024		
Saturday	13.01.2024		
Monday	15.01.2024		sodium potassium pump, calcium pump
Tuesday	16.01.2024		
Wednesday	17.01.2024	Shri Guru Gobind Singh Ji Jayanti	
Thursday	18.01.2024	comparison of basicity of pyridine, piperidine and pyrrole , introduction to condensed five and six members heterocycles	
Friday	19.01.2024		
Saturday	20.01.2024		
Monday	22.01.2024		Role of alkali and alkaline earth metal , nitrogen fixation
Tuesday	23.01.2024		
Wednesday	24.01.2024	preparation of indole, quinoline, isoquinoline	
Thursday	25.01.2024	chemical reaction of condensed rings	
Friday	26.01.2024	Republic Day	
Saturday	27.01.2024		
Monday	29.01.2024		nitrogen fixation
Tuesday	30.01.2024		
Wednesday	31.01.2024	mechanism of electrophilic substitution of quinoline and isoquinoline.	

Day	Date	Class : B.Sc. III (N.M.)	Class : B.Sc. III (N.M.)
		Semester : VI(Organic Chemistry)	Semester : VI (Inorganic Chemistry)
Thursday	01.02.2024	Chapter 3 acidity of hydrogen, alkylation of malonate and assignment	
Friday	02.02.2024		
Saturday	03.02.2024		
Monday	05.02.2024		Chapter - Acids , Bases, HSAB concept- Arrhenius,Bronsted - lowry,Lux - Flod
Tuesday	06.02.2024		
Wednesday	07.02.2024	test of mono heterocyclic comounds	
Thursday	08.02.2024	alkylation of ethyl acetoacetate, synthesis of ethyl acetoacetate	
Friday	09.02.2024		
Saturday	10.02.2024		
Monday	12.02.2024		Solvent System and lewis concept of acids and bases
Tuesday	13.02.2024		
Wednesday	14.02.2024	Basant Panchmi/Sir Chhotu Ram Jayanti	
Thursday	15.02.2024	claisen condensation	
Friday	16.02.2024		
Saturday	17.02.2024		
Monday	19.02.2024		Relative strength of acids and bases, concept of hard and soft acids and bases
Tuesday	20.02.2024		
Wednesday	21.02.2024	keto - enol tautomerism of ethyl acetoacetate	
Thursday	22.02.2024	Chapter - 4 Introduction, classification of amino acids, acid base behaviour, isoelectric point, electrophoresis	
Friday	23.02.2024		
Saturday	24.02.2024	Guru Ravidas Jayanti	
Monday	26.02.2024		test of Chapter bioinorganic chemistry
Tuesday	27.02.2024		
Wednesday	28.02.2024	preparation of amino acids, structure and nomenclature of peptides and proteins	
Thursday	29.02.2024	classification of protein, peptide structure determination, end group analysis	
Friday	01.03.2024		
Saturday	02.03.2024		
Monday	04.03.2024		Symbiosis, electronegativity,hardness and softness
Tuesday	05.03.2024		
Wednesday	06.03.2024	test of organic synthesis via enolates	
Thursday	07.03.2024	hydrolysis of peptides, classical peptide synthesis, solid phase peptide synthesis	
Friday	08.03.2024	Maha Shivratri	
Saturday	09.03.2024		
Monday	11.03.2024		Chapter - Silicones and Phosphazenes - Silicones , nomenclature,prepration

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		Semester : VI(Organic Chemistry)	Semester : VI (Inorganic Chemistry)
Tuesday	12.03.2024		
Wednesday	13.03.2024	Assignment and test of heterocyclic compounds	
Thursday	14.03.2024	structure of peptides and proteins : primary and secondary structure	
Friday	15.03.2024		
Saturday	16.03.2024		
Monday	18.03.2024		properties of silicones,uses
Tuesday	19.03.2024		
Wednesday	20.03.2024	Revision of proteins and peptides	
Thursday	21.03.2024	Chapter 5 Addition growth polymerisation, free radical vinyl polymerisation	
Friday	22.03.2024		
23.03.2024 to 31.03.2024		Holi Vacations	
Monday	01.04.2024		Phosphazenes - preparation
Tuesday	02.04.2024		
Wednesday	03.04.2024	test of amino acids	
Thursday	04.04.2024	ionic vinyl polymerisation, Ziegler natta polymerisation and vinyl polymers	
Friday	05.04.2024		
Saturday	06.04.2024		
Monday	08.04.2024		properties and structure of phosphazines
Tuesday	09.04.2024		
Wednesday	10.04.2024	condensation polymerisation, polyesters, polyamides,	
Thursday	11.04.2024	Id-ul-Fitr	
Friday	12.04.2024		
Saturday	13.04.2024	Vaisakhi/Chhath Puja	
Monday	15.04.2024		test of Chapter acids and bases
Tuesday	16.04.2024		
Wednesday	17.04.2024	Ram Navami	
Thursday	18.04.2024	phenol formaldehyde resins, urea formaldehyde resins, epoxy resins	
Friday	19.04.2024		
Saturday	20.04.2024		
Monday	22.04.2024		revision
Tuesday	23.04.2024		
Wednesday	24.04.2024	polyurethane, natural and synthetic rubbers	
Thursday	25.04.2024	Revision	
Friday	26.04.2024		
Saturday	27.04.2024		
Monday	29.04.2024		revision
Tuesday	30.04.2024		

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Even Semester)

Session 2023-24 (01.01.2024 to 30.04.2024)

Name of Teacher: Mrs. Rajwant kaur.....

Subject organic,physical, inorganic chemistry.....

Day	Date	Class...B.sc 2nd year 4th semester.....	Class B.sc 3rd year 6th semester 6th.....
		Semester 4th.....	Semester 6th.....
Monday	01.01.2024	university examination	
Tuesday	02.01.2024	introduction of infra red spectroscopy	
Wednesday	03.01.2024	hook law intensity and position of ir band	
Thursday	04.01.2024	measurement of ir spectrum	
Friday	05.01.2024		introduction to statistical machanises need for statistical thermodynamics probability
Saturday	06.01.2024		Maxwell boltzmann distribution statistics
Monday	08.01.2024	fingerprint region, characteristic absorption of various functions group	
Tuesday	09.01.2024	interpretation of spectra of simple compound	
Wednesday	10.01.2024	applications of IR spectroscopy	
Thursday	11.01.2024	test	
Friday	12.01.2024		born Oppenheimer approximation partition function and its physical significance factrization of partition function
Saturday	13.01.2024		introduction of photochemistry of radiation with matter difference between thermal and photochemical processes
Monday	15.01.2024	introduction of Amines	
Tuesday	16.01.2024	structure and nomenclature of amines	
Wednesday	17.01.2024	Shri Guru Gobind Singh Ji Jayanti	
Thursday	18.01.2024	separation of mixture of primary secondary and tertiaryamines	
Friday	19.01.2024		laws of photochemistry grotthus drapper law, stark einstein law
Saturday	20.01.2024		jablonski diagram depicting various processes occurring in excited state
Monday	22.01.2024	structure feature affecting basic of amines	
Tuesday	23.01.2024	preparation of alkyl amines amination of aldehydic and ketonic compounds	
Wednesday	24.01.2024	gabriel phthalimide reaction	
Thursday	25.01.2024	hofmann bromamide reaction	
Friday	26.01.2024	Republic Day	
Saturday	27.01.2024		qualitative description of fluorescence, phosphorescence

Day	Date	Class...B.sc 2nd year 4th semester.....	Class B.sc 3rd year 6th semester 6th.....
		Semester 4th.....	Semester 6th.....
Monday	29.01.2024	electrophilic aromatic substitution reaction	
Tuesday	30.01.2024	test	
Wednesday	31.01.2024	diazonium salts mechanism and structure of benzene diazonium chloride	
Thursday	01.02.2024	reduction of diazonium salt to hydrazines	
Friday	02.02.2024		non radiative processes, quantum yield, photosensitized reaction
Saturday	03.02.2024		introduction of solutions and colligative properties
Monday	05.02.2024	Coupling reaction and its synthetic application	
Tuesday	06.02.2024	introduction of aldehydes and ketones	
Wednesday	07.02.2024	nomenclature and structure of carbonyl group	
Thursday	08.02.2024	synthesis of aldehydes and ketones with particular reference to the particular reference to synthesis of aldehyde from	
Friday	09.02.2024		ideal non ideal solution methods of expressing concentration of solution
Saturday	10.02.2024		dilute solution raoul law colligative properties relative lowering of vapour pressure elevation in boiling point
Monday	12.02.2024	pcc and pyridine dichromate physical properties	
Tuesday	13.02.2024	mechanism of nucleophilic addition to comparison of reactivities of aldehydes and ketone	
Wednesday	14.02.2024	Basant Panchmi/Sir Chhotu Ram Jayanti	
Thursday	15.02.2024	reaction benzoin, aldol, perkin and knoevenagel condensations	
Friday	16.02.2024	witting reaction, mannich reaction, oxidation of aldehyde	
Saturday	17.02.2024		
Monday	19.02.2024	witting reaction, mannich reaction, oxidation of aldehyde	
Tuesday	20.02.2024	baeyer villiger oxidation of ketones	
Wednesday	21.02.2024	cannizzaro reaction, MPV, clemmensen	
Thursday	22.02.2024	wolff kishner, LiAlH ₄ and NaBH ₄ red.	
Friday	23.02.2024		depression in freezing point osmotic pressure
Saturday	24.02.2024	Guru Ravidas Jayanti	
Monday	26.02.2024	introduction of thermodynamics need for the law different statements of the law	

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		Semester 4th.....	Semester 6th.....
Tuesday	27.02.2024	carnot cycle and its efficiency carnot theorem thermodynamics scale of temperature	
Wednesday	28.02.2024	concept of entropy entropy as a state, entropy as a function of v and t	
Thursday	29.02.2024	entropy as a function of p and t, change in physical change	
Friday	01.03.2024		thermodynamics derivation of relation between amount of solute and elevation in boiling and depression in freezing point
Saturday	02.03.2024		application in calculation molar masses of normal
Monday	04.03.2024	introduction of electrochemistry, electrolytic and galvanic cells, conventional representation of cells	
Tuesday	05.03.2024	calculation of thermodynamic quantity, types of reversible electrodes	
Wednesday	06.03.2024	nerst equations, derivation of cells emf and single electrode potential	
Thursday	07.03.2024	standard hydrogen electrode, reference electrodes, standard electrode, sign conventions	
Friday	08.03.2024		
Saturday	09.03.2024		introduction of phase equilibrium
Monday	11.03.2024	concentration cells with and without transference, liquid junction potential and its measurement	
Tuesday	12.03.2024	application of emf measurement and potentiometric titration using glass electrode	
Wednesday	13.03.2024	introduction of f block elements, electronic structure, oxidation states, magnetic properties, complex formation and colour	
Thursday	14.03.2024	ionic radii, lanthanide contraction, occurrence, separation of lanthanide, lanthanide compounds	
Friday	15.03.2024		statement and meaning of the term phase, component and degree of freedom
Saturday	16.03.2024		thermodynamics derivation of gibbs phase rule. phase equilibrium of one component system
Monday	18.03.2024	introduction of actinides, general characteristics, chemistry of separation of Np, Pu, and Am from uranium	

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		Semester 4th.....	Semester 6th.....
Tuesday	19.03.2024	transuranic elements, comparison of lanthanides and actinides with transition elements	
Wednesday	20.03.2024	introduction of chemistry of analysis of various groups of basic and acidic radical, chemistry of identification of acid radical	
Thursday	21.03.2024	chemistry of interference of acid radical in analysis of basic radicals, common ion effect, solubility product	
Friday	22.03.2024		phase equilibria of two component systems solid liquid equilibria
23.03.2024 to 31.03.2024 Holi Vacations			
Monday	01.04.2024	theory of precipitation, co-precipitation, post precipitation, purification of precipitates	
Tuesday	02.04.2024	revision	
Wednesday	03.04.2024	test	
Thursday	04.04.2024	revision	
Friday	05.04.2024		simple eutectic example Pb-Ag system, desilverisation of lead
Saturday	06.04.2024		introduction of organometallic chemistry, nomenclature and classification of organometallic compounds
Monday	08.04.2024	test	
Tuesday	09.04.2024	revision	
Wednesday	10.04.2024	test	
Thursday	11.04.2024	Id-Ul-Fitr	
Friday	12.04.2024		preparation, properties and bonding of alkyls of Li, Al, Hg and Sn
Saturday	13.04.2024	Vaisakhi/Chhath Puja	
Monday	15.04.2024	revision	
Tuesday	16.04.2024	test	
Wednesday	17.04.2024	Ram Navami	
Thursday	18.04.2024	revision	
Friday	19.04.2024		a brief account of metal-ethylenic complexes
Saturday	20.04.2024		mononuclear carbonyls and nature of bonding in metal carbonyls
Monday	22.04.2024	test	
Tuesday	23.04.2024	revision	
Wednesday	24.04.2024	test	
Thursday	25.04.2024	revision	
Friday	26.04.2024		revision
Saturday	27.04.2024		test
Monday	29.04.2024	test	
Tuesday	30.04.2024	test	