

MAHARANA PRATAP MAHAVIDYALAYA, JUNGLE DHUSAN, GORAKHPUR

Chemistry Department

Class : B. Sc. III Semester LESSON PLAN (Theory) : 2025-26 Subject : Chemistry

Course Code : CHE-201F

Course Title : Chemical Dynamics, Organic & Coordination Chemistry

DATE	LECTURE	TEACHER'S NAME	CHAPTER	TOPIC
16/07/2025	1	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	Coordinate bonding, double and complex salts
17/07/2025	2	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Rate of a reaction
18/07/2025	3	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Aromaticity
19/07/2025	4	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Classification and nomenclature of alcohols
21/07/2025	5	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Molecularity and order of reaction
22/07/2025	CT	Mrs. Divya Dubey	CT	Class Teaching
23/07/2025	6	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	Werner's theory of coordination complexes
24/07/2025	7	Mrs. Divya Dubey	Unit-V, Chemistry of Transition Elements	Chemistry of elements of first transition series- Characteristic properties of d-block elements
25/07/2025	8	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Aromatic, Antiaromatic and Non-aromatic compounds
26/07/2025	9	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Monohydric alcohols, nomenclature
28/07/2025	10	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Concentration dependence of rates
29/07/2025	ME	Mrs. Divya Dubey	ME	Monthly Evaluation
30/07/2025	11	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	Classification of ligands
31/07/2025	12	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Mathematical characteristic of simple chemical reactions
01/08/2025	13	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Nomenclature of benzene derivatives
02/08/2025	14	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Methods of formation by reduction of aldehydes, ketones, carboxylic acids and esters
04/08/2025	15	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Zero order, first order
05/08/2025	CT	Mrs. Divya Dubey	CT	Class Teaching
06/08/2025	16	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	Ambidentate ligands, chelates
07/08/2025	17	Mrs. Divya Dubey	Unit-V, Chemistry of Transition Elements	Binary compounds (hydrides, carbides and oxides) of the elements of the first transition series
08/08/2025	18	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Molecular orbital (MO) picture of benzene
11/08/2025	19	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Second order, pseudo order
12/08/2025	20	Mrs. Divya Dubey	Unit-V, Chemistry of Transition Elements	Complexes with respect to relative stability of their oxidation states, magnetic behaviour, spectral properties and stereochemistry
13/08/2025	CT	Mrs. Namrata Mishra	CT	Class Teaching
14/08/2025	21	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Half life and mean life

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18/08/2025	22	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Determination of order of reaction: differential method, method of integration
19/08/2025	23	Mrs. Divya Dubey	Unit-V, Chemistry of Transition Elements	Complexes with respect to relative stability of their oxidation states, magnetic behaviour, spectral properties and stereochemistry
20/08/2025	24	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	Coordination numbers
21/08/2025	25	Mrs. Divya Dubey	Unit-V, Chemistry of Transition Elements	Chemistry of elements of second and third transition series- General characteristics
22/08/2025	CT	Dr. S. K. Vernwal	CT	Class Teaching
23/08/2025	26	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Methods of formation by reduction of Aldehydes, Ketones, Carboxylic acids and Esters
25/08/2025	27	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Half life method and isolation method
26/08/2025	28	Mrs. Divya Dubey	Unit-V, Chemistry of Transition Elements	Comparative treatment of Zr/Hf, Nb/Ta, Mo/W in respect of ionic radii, oxidation states, magnetic behaviour, spectral properties and stereochemistry
27/08/2025	29	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	IUPAC nomenclature of coordination complexes (up to two metal centres)
28/08/2025	30	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Theories of chemical kinetics: Effect of temperature on rate of reaction
29/08/2025	ME	Dr. S. K. Vernwal	ME	Monthly Evaluation
30/08/2025	31	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Hydrogen bonding, Acidic nature
01/09/2025	32	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Arrhenius equation, concept of activation energy
02/09/2025	33	Mrs. Divya Dubey	Unit-V, Chemistry of Transition Elements	Comparative treatment of Zr/Hf, Nb/Ta, Mo/W in respect of ionic radii, oxidation states, magnetic behaviour, spectral properties and stereochemistry
03/09/2025	34	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	IUPAC nomenclature of coordination complexes (up to two metal centres)
04/09/2025	35	Mrs. Divya Dubey	Unit-V, Chemistry of Transition Elements	Comparative treatment of Zr/Hf, Nb/Ta, Mo/W in respect of ionic radii, oxidation states, magnetic behaviour, spectral properties and stereochemistry
06/09/2025	CT	Mrs. Priyanka Mishra	CT	Class Teaching
08/09/2025	36	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Simple collision theory based on hard sphere model
09/09/2025	37	Mrs. Divya Dubey	Unit-VII, Theories of Coordination Chemistry	Metal-ligand bonding in transition metal complexes
10/09/2025	38	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	Isomerism in coordination compounds
11/09/2025	39	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Transition state theory (equilibrium hypothesis)
12/09/2025	40	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Character of arenes
13/09/2025	CT	Mrs. Priyanka Mishra	CT	Class Teaching
15/09/2025	41	Dr. Ram Sahay	Unit-I, Chemical Kinetics	Expression for the rate constant based on equilibrium constant and thermodynamic aspects (no derivation)
16/09/2025	42	Mrs. Divya Dubey	Unit-VII, Theories of Coordination Chemistry	Limitations of valence bond theory
17/09/2025	43	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Differentiation among 1°, 2° and 3° alcohols
18/09/2025	44	Mrs. Divya Dubey	Unit-VII, Theories of Coordination Chemistry	An elementary idea of crystal field theory
19/09/2025	45	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of	Cyclic carbocations/carbanions

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			Arenes	
20/09/2025	CT	Mrs. Priyanka Mishra	CT	Class Teaching
22/09/2025	46	Dr. Ram Sahay	Unit-II, Phase Equilibrium	Statement and meaning of the terms – phase, component and degree of freedom
23/09/2025	47	Mrs. Divya Dubey	Unit-VII, Theories of Coordination Chemistry	Crystal field splitting in octahedral complexes
24/09/2025	48	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	Constitutional and stereoisomerism
25/09/2025	49	Dr. Ram Sahay	Unit-II, Phase Equilibrium	Derivation of Gibb's phase rule
26/09/2025	50	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Electrophilic aromatic substitution
27/09/2025	ME	Mrs. Priyanka Mishra	ME	Monthly Evaluation
29/09/2025	51	Dr. Ram Sahay	Unit-II, Phase Equilibrium	Phase equilibria of one component system : water
30/09/2025	52	Mrs. Divya Dubey	Unit-VII, Theories of Coordination Chemistry	Crystal field splitting in tetrahedral complexes
03/10/2025	53	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Mechanism of halogenation
04/10/2025	54	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Dihydric alcohols, Trihydric alcohols – nomenclature, methods of formation
06/10/2025	55	Dr. Ram Sahay	Unit-II, Phase Equilibrium	Phase equilibria of one component system : S, He
07/10/2025	CT	Mrs. Divya Dubey	CT	Class Teaching
08/10/2025	56	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	Geometrical and optical isomerism in square planar complexes
09/10/2025	57	Mrs. Divya Dubey	Unit-VII, Theories of Coordination Chemistry	Crystal field splitting in square planar complexes
10/10/2025	58	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Mechanism of nitration
11/10/2025	59	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Dihydric alcohols, Trihydric alcohols – nomenclature, methods of formation
24/10/2025	60	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Mechanism of sulphonation
25/10/2025	ME	Mrs. Priyanka Mishra	ME	Monthly Evaluation
27/10/2025	61	Dr. Ram Sahay	Unit-II, Phase Equilibrium	
29/10/2025	62	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	Geometrical and optical isomerism in square planar complexes
30/10/2025	63	Dr. Ram Sahay	Unit-II, Phase Equilibrium	Diamond and graphite
31/10/2025	64	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Friedel-Craft's alkylation and acylation
01/11/2025	65	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Methods of formation of glycerol
03/11/2025	CT	Dr. Ram Sahay	CT	Class Teaching
04/11/2025	66	Mrs. Divya Dubey	Unit-VII, Theories of Coordination Chemistry	Factors affecting the crystal field parameters
06/11/2025	67	Mrs. Divya Dubey	Unit-VII, Theories of Coordination Chemistry	Factors affecting the crystal field parameters

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07/11/2025	68	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Directing effects of the groups
08/11/2025	69	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Chemical reactions of glycerol
10/11/2025	70	Dr. Ram Sahay	Unit-II, Phase Equilibrium	Phase equilibria of two component systems, Solid-liquid equilibria, simple eutectic
11/11/2025	ME	Mrs. Divya Dubey	ME	Monthly Evaluation
12/11/2025	71	Mrs. Namrata Mishra	Unit-VI, Coordination Chemistry	Geometrical and optical isomerism in octahedral complexes
13/11/2025	72	Dr. Ram Sahay	Unit-II, Phase Equilibrium	Pb-Ag systems
14/11/2025	73	Dr. S. K. Vernwal	Unit-III, Aromaticity and Chemistry of Arenes	Directing effects of the groups
15/11/2025	74	Mrs. Priyanka Mishra	Unit-IV, Chemistry of Alcohols	Chemical reactions of glycerol
