

MAHARANA PRATAP MAHAVIDYALAYA, JUNGLE DHUSAN, GORAKHPUR
Chemistry Department

Class: B. Sc. I Semester LESSON PLAN (Theory) : 2025-26 Subject : Chemistry
Course Code : CHE101F
Course Title : Fundamentals of Chemistry

DATE	LECTURE	TEACHER'S NAME	CHAPTER	TOPIC
16/07/2025	1	Mrs. Divya Dubey	CHE-101F, Unit-I, Atomic Structure	Quantum numbers
17/07/2025	2	Dr. S. K. Vernwal	CHE-101F, Unit-V, Recapitulation of Basics of Organic Chemistry	Hybridization
18/07/2025	3	Dr. R. Sahay	CHE-101F, Unit-III, Periodic Properties of Atoms	Brief discussion of periodic properties of atoms
19/07/2025	4	Mrs. Divya Dubey	CHE-101F, Unit-I, Atomic Structure	Shapes of s, p and d orbitals, Aufbau principle
21/07/2025	5	Dr. S. K. Vernwal	CHE-101F, Unit-V, Recapitulation of Basics of Organic Chemistry	Bond lengths, bond angles and bond energy
22/07/2025	CT	Mrs. Priyanka Mishra	Minor--Class Teaching	
23/07/2025	6	Mrs. Divya Dubey	CHE-101F, Unit-I, Atomic Structure	Pauli's exclusion principle. Hund's rule of maximum multiplicity
24/07/2025	7	Mrs. Priyanka Mishra	CHE-101F, Unit-VI, Mechanism of Organic Reactions	Curved arrow notation, drawing electron movements with arrows, half-headed & double-headed arrows
25/07/2025	8	Dr. R. Sahay	CHE-101F, Unit-III, Periodic Properties of Atoms	Factors affecting and variation trends of periodic properties in groups and periods.
26/07/2025	9	Dr. R. Sahay	CHE-101F, Unit-III, Periodic Properties of Atoms	Effective nuclear charge, shielding or screening effect
28/07/2025	10	Dr. S. K. Vernwal	CHE-101F, Unit-V, Recapitulation of Basics of Organic Chemistry	Localized and delocalized chemical bonding
29/07/2025	ME	Mrs. Priyanka Mishra	Monthly Evaluation	
30/07/2025	11	Mrs. Divya Dubey	CHE-101F, Unit-I, Atomic Structure	Variation of orbital energies with atomic number and energy level diagram
31/07/2025	12	Dr. S. K. Vernwal	CHE-101F, Unit-V, Recapitulation of Basics of Organic Chemistry	Electronic Displacements: Inductive effect
01/08/2025	13	Dr. R. Sahay	CHE-101F, Unit-III, Periodic Properties of Atoms	Slater rules
02/08/2025	14	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	The valence bond theory (VBT) and its limitations
04/08/2025	15	Dr. S. K. Vernwal	CHE-101F, Unit-V, Recapitulation of Basics of Organic Chemistry	Electromeric effect
05/08/2025	CT	Mrs. Priyanka Mishra	Minor--Class Teaching	
06/08/2025	16	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Concept of hybridization
07/08/2025	17	Mrs. Priyanka Mishra	CHE-101F, Unit-VI, Mechanism of Organic Reactions	Homolytic and heterolytic bond fission
08/08/2025	18	Dr. R. Sahay	CHE-101F, Unit-III, Periodic Properties of Atoms	Atomic and ionic radii

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11/08/2025	19	Dr. S. K. Vernwal	CHE-101F, Unit-V, Recapitulation of Basics of Organic Chemistry	Rresonance, mesomeric effects and their applications
12/08/2025	20	Mrs. Priyanka Mishra	CHE-101F, Unit-VI, Mechanism of Organic Reactions	Types of reagents, electrophiles and nucleophiles
13/08/2025	CT	Mrs. Divya Dubey	Minor--Class Teaching	
14/08/2025	21	Dr. S. K. Vernwal	CHE-101F, Unit-V, Recapitulation of Basics of Organic Chemistry	Rresonance, mesomeric effects and their applications
18/08/2025	22	Dr. S. K. Vernwal	CHE-101F, Unit-V, Recapitulation of Basics of Organic Chemistry	Hyperconjugation
19/08/2025	23	Mrs. Priyanka Mishra	CHE-101F, Unit-VI, Mechanism of Organic Reactions	Types of organic reactions, Energy considerations
20/08/2025	24	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Hybridorbitals and molecular geometry, Bents rule
21/08/2025	25	Mrs. Priyanka Mishra	CHE-101F, Unit-VI, Mechanism of Organic Reactions	Types of organic reactions, Energy considerations
22/08/2025	CT	Dr. R. Sahay	Minor--Class Teaching	
23/08/2025	26	Dr. R. Sahay	CHE-101F, Unit-III, Periodic Properties of Atoms	Electronegativity, Pauling's/Allred-Rochow's scales
25/08/2025	27	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Classification of carbon atom in alkanes
26/08/2025	28	Mrs. Priyanka Mishra	CHE-101F, Unit-VI, Mechanism of Organic Reactions	Reactive intermediates: Carbocations, carbanions, free radicals
27/08/2025	29	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Valence shell electron pair repulsion theory (VSEPR)
28/08/2025	30	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	General methods of preparation of alkanes
29/08/2025	ME	Dr. R. Sahay	Monthly Evaluation	
30/08/2025	31	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Shapes of simple molecules and ions
01/09/2025	32	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	General methods of preparation of alkanes
02/09/2025	33	Mrs. Priyanka Mishra	CHE-101F, Unit-VI, Mechanism of Organic Reactions	Reactive intermediates: Carbocations, carbanions, free radicals
03/09/2025	34	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Molecular orbital theory(MOT)
04/09/2025	35	Mrs. Priyanka Mishra	CHE-101F, Unit-VI, Mechanism of Organic Reactions	Assigning formal charges on intermediates and other ionic species
06/09/2025	CT	Dr. R. Sahay	Minor--Class Teaching	
08/09/2025	36	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	General methods of preparation of alkanes
09/09/2025	37	Mrs. Priyanka Mishra	CHE-101F, Unit-VII (B), Chemistry of Cycloalkanes	Nomenclature of cycloalkanes

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10/09/2025	38	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Molecular orbital diagrams
11/09/2025	39	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Physical and chemical properties of alkanes
12/09/2025	40	Dr. R. Sahay	CHE-101F, Unit-III, Periodic Properties of Atoms	Ionization enthalpy, electron gain enthalpy
13/09/2025	CT	Mrs. Divya Dubey	Minor--Class Teaching	
15/09/2025	41	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Physical and chemical properties of alkanes
16/09/2025	42	Mrs. Priyanka Mishra	CHE-101F, Unit-VII (B), Chemistry of Cycloalkanes	D & L systems of nomenclature
17/09/2025	45	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Bond orders of homonuclear and heteronuclear diatomic molecules and ions
18/09/2025	46	Mrs. Priyanka Mishra	CHE-101F, Unit-VII (B), Chemistry of Cycloalkanes	Methods of formation of cycloalkanes
19/09/2025	47	Dr. R. Sahay	CHE-101F, Unit-IV, Kinetic theories of gases Gaseous State	Postulates of kinetic theory of gases, deviation from ideal behavior
20/09/2025	CT	Dr. R. Sahay	Minor--Class Teaching	
22/09/2025	48	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Wurtz reaction, Wurtz-Fittig reactions
23/09/2025	49	Mrs. Priyanka Mishra	CHE-101F, Unit-VII (B), Chemistry of Cycloalkanes	Chemical reactions of cycloalkanes
24/09/2025	50	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	bond orders of homonuclear and heteronuclear diatomic molecules and ions
25/09/2025	51	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Free radical substitutions: Halogenation
26/09/2025	52	Dr. R. Sahay	CHE-101F, Unit-IV, Kinetic theories of gases Gaseous State	Van der Waals equation of state.
27/09/2025	ME	Mrs. Divya Dubey	Monthly Evaluation	
29/09/2025	53	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Relative reactivity and selectivity
30/09/2025	54	Mrs. Priyanka Mishra	CHE-101F, Unit-VII (B), Chemistry of Cycloalkanes	Baeyer's strain theory and its limitations
03/10/2025	55	Dr. R. Sahay	CHE-101F, Unit-IV, Critical phenomena	PV isotherms of real gases, continuity of states
04/10/2025	56	Dr. R. Sahay	CHE-101F, Unit-VIII, Environmental Chemistry	Group wise discussion of s-block element with respect to electronic configuration, ionisation potential, electron affinity, electronegativity, atomic and ionic radii and their oxidation states.
06/10/2025	57	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Relative reactivity and selectivity
07/10/2025	CT	Mrs. Priyanka Mishra	Minor--Class Teaching	
08/10/2025	58	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Bond orders of homonuclear and heteronuclear diatomic molecules and ions
09/10/2025	59	Mrs. Priyanka Mishra	CHE-101F, Unit-VII (B), Chemistry of Cycloalkanes	Chair, Boat and Twist boat forms of cyclohexane with energy diagrams

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10/10/2025	60	Dr. R. Sahay	CHE-101F, Unit-IV, Critical phenomena	The isotherms of Van der Waals equation
11/10/2025	61	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Bond orders of homonuclear and heteronuclear diatomic molecules and ions
24/10/2025	62	Dr. R. Sahay	CHE-101F, Unit-IV, Critical phenomena	Relationship between critical constants and Van der Waals constants
25/10/2025	CT	Dr. R. Sahay	Minor--Class Teaching	
27/10/2025	63	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Relative reactivity and selectivity
29/10/2025	64	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Bond orders of homonuclear and heteronuclear diatomic molecules and ions
30/10/2025	65	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Relative reactivity and selectivity
31/10/2025	66	Dr. R. Sahay	CHE-101F, Unit-IV, Critical phenomena	The law of corresponding states, reduced equation of state.
01/11/2025	67	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Bond orders of homonuclear and heteronuclear diatomic molecules and ions
03/11/2025	CT	Dr. S. K. Vernwal	Minor--Class Teaching	
04/11/2025	68	Mrs. Priyanka Mishra	CHE-101F, Unit-VII (B), Chemistry of Cycloalkanes	Theory of strain less rings. The case of cyclopropane ring.
06/11/2025	69	Mrs. Priyanka Mishra	CHE-101F, Unit-VII (B), Chemistry of Cycloalkanes	Banana bonds
07/11/2025	70	Dr. R. Sahay	CHE-101F, Unit-IV, Critical phenomena	The law of corresponding states, reduced equation of state.
08/11/2025	71	Dr. R. Sahay	CHE-101F, Unit-IV, Critical phenomena	The law of corresponding states, reduced equation of state.
10/11/2025	72	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Relative reactivity and selectivity
11/11/2025	ME	Mrs. Priyanka Mishra	Monthly Evaluation	
12/11/2025	73	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Bond orders of homonuclear and heteronuclear diatomic molecules and ions
13/11/2025	74	Dr. S. K. Vernwal	CHE-101F, Unit-VII (A), Chemistry of Alkanes	Relative reactivity and selectivity
14/11/2025	75	Dr. R. Sahay	CHE-101F, Unit-IV, Critical phenomena	The law of corresponding states, reduced equation of state.
15/11/2025	76	Mrs. Divya Dubey	CHE-101F, Unit-II, Simple Bonding Theories of Molecules	Bond orders of homonuclear and heteronuclear diatomic molecules and ions
