KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

N Name of the Teacher – Dr. Priyanka
Class- B.Sc 2nd semester
Subject- Chemistry (Major)
Paper-B23-CHE-201

3rd Week **12 Jan – 17 Jan**	Valence bond theory approach, valence shell electron pair repulsion (VSEPR) theory shapes of simple inorganic molecules and ions based on valence shell electron pair repulsion (VSEPR) theory and hybridization.
18 Jan, 2026	**Sunday**
4th Week **19 Jan – 24 Jan**	Revision and practice of shapes of simple inorganic molecules and ions based on VSEPR theory and hybridization Molecular orbital theory of homonuclear (N_2, O_2) and heteronuclear (CO and NO) diatomic molecules
23 Jan, 2026 **25 Jan, 2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ Basant Panchmi** **Sunday** **Republic Day**
5th Week **27 Jan – 31 Jan**	Numerical practice, Dipole moment and percentage ionic character in covalent bond. Nomenclature, classification of carbon atoms in alkanes and its structure.

February, 2026 **1st Week** **1 Feb, 2026**	**Guru Ravidas Jayanti , Sunday**
2 Feb – 7 Feb	Isomerism in alkanes, sources. Methods of formation of alkanes: Wurtz reaction, Kolbe reaction, Corey-House reaction and decarboxylation of carboxylic acids, physical properties.
8 Feb, 2026	**Sunday**
2nd Week **9 Feb - 14 Feb**	Mechanism of free radical halogenation of alkanes: reactivity and selectivity Nomenclature of Cycloalkanes, Baeyer' s strain theory and its limitations, theory of strainless rings. Assignment-I
15 Feb, 2026	**Maha Shivratri , Sunday**
3rd Week **16 Feb - 21 Feb**	Hydrogen Bonding – Definition, types effects of hydrogen bonding on properties of substances, application Brief discussion of various types of Van der Waals forces. Metallic bond – Qualitative idea of valence bond
22 Feb, 2026	**Sunday**
4th Week **23 Feb - 28 Feb**	Band theories of metallic bond (conductors, semiconductors, insulators) Semiconductors – Introduction, types, and applications Concept of reaction rates, rate equation, factors influencing the rate of reaction

March, 2026 **1st Week** **1 March – 8 March**	**Holi Break**
2nd Week **9 March – 14 March**	Order and molecularity of a reaction, integrated rate expression for zero, first, Half-life period of a reaction Order and molecularity of a reaction, integrated rate expression for zero order reactionand first order reaction **Assignment-II**
15 March, 2026	**Sunday**
3rd Week **16 March – 20 March**	Arrhenius equation. Nernst distribution law – its thermodynamic derivation Nernst distribution law after association and dissociation of solute in one of the phases, of distribution law Determination of degree of hydrolysis and hydrolysis constant of aniline hydrochloride
21 March, 2026 **22 March, 2026** **23 March, 2026**	**Id-ul-Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4th Week **24 March – 28 March**	Numerical practice Ionic structures (NaCl, CsCl, ZnS (Zinc blende), CaF_2) size effects Radius ratio rule and its limitations, Concept of Lattice energy
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5th Week **30 March**	Born- Haber cycle, Solvation energy and its relationship with solubility of Ionic solids
31 March, 2026	**Mahavir Jayanti**

April, 2026 **1st Week** **1 April – 4 April**	Polarizing power and Polarisability of ions, Fajan's rule.
5 April, 2026	**Sunday**
2nd Week **6 April - 11 April**	**Sessional Exams**
12 April, 2026	**Sunday**
3rd Week **13 April - 18 April**	Nomenclature of alkenes and its structure. Methods of formation: dehydration of alcohols dehydrohalogenation of alkyl halide, Hofmann elimination and their mechanism.
14 April, 2026 **19 April, 2026**	**Dr. B.R.Ambedkar Jayanti/Vaisakhi** **Parshuram Jayanti /Akshay Tirtiya , Sunday**
4th Week **20 April - 25 April**	Saytzeff rule and relative stabilities of alkenes. Chemical reactions: electrophilic and free radical additions
26 April, 2026	**Sunday**
5th Week **27 April - 30 April**	Addition of halogens, halogen acids, hydroboration–oxidation, oxymercuration-reduction ozonolysis and hydration. Markownikoff's rule of addition.

May, 2026 **1st Week** **1 May – 2 May 2026**	Revision and Practice Numerical problems
3 May, 2026	**Sunday**
2nd Week **4 May- 5 May**	Revision tests
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester (January to May, 2026)

Name of the Teacher – Dr. Priyanka
Class- B.Sc 2nd semester
Subject- Chemistry (Minor)
Paper-B23-CHE-203

3rd Week **12 Jan – 17 Jan**	Atomic and ionic radii, Ionization energy trend in periodic table
18 Jan, 2026	**Sunday**
4th Week **19 Jan – 24 Jan**	Electron affinity and electronegativity trend in periodic table
23 Jan, 2026 **25 Jan, 2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ Basant Panchmi** **Sunday** **Republic Day**
5th Week **27 Jan – 31 Jan**	Effective nuclear charge and slater rules

February, 2026 **1st Week** **1 Feb, 2026**	**Guru Ravidas Jayanti , Sunday**
2 Feb – 7 Feb	Stoichiometric and non-stoichiometric defects in crystals.
8 Feb, 2026	**Sunday**
2nd Week **9 Feb - 14 Feb**	Lattice energy, Born- Haber cycle **Assignment-I**
15 Feb, 2026	**Maha Shivratri , Sunday**
3rd Week **16 Feb - 21 Feb**	Solvation energy and its relationship with solubility of Ionic solids
22 Feb, 2026	**Sunday**
4th Week **23 Feb - 28 Feb**	Polarizing power and Polarisability of ions, Fajan's rule.

March, 2026 **1st Week** **1 March – 8 March**	**Holi Break**
2nd Week **9 March – 14 March**	Localized and delocalized chemical bond, van der wall's interactions **Assignment-II**
15 March, 2026	**Sunday**
3rd Week **16 March – 20 March**	Resonance, resonance effect and hyperconjugation.
21 March, 2026 **22 March, 2026** **23 March, 2026**	**Id-ul-Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4th Week **24 March – 28 March**	-
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5th Week **30 March**	Inductive effect, electromeric effect and their comparison
31 March, 2026	**Mahavir Jayanti**

April, 2026 **1st Week** **1 April – 4 April**	Polarizing power and Polarisability of ions, Fajan's rule.
5 April, 2026	**Sunday**
2nd Week **6 April - 11 April**	**Sessional Exams**
12 April, 2026	**Sunday**
3rd Week **13 April - 18 April**	Kinetic theory of gases, calculation of root mean square velocity
14 April, 2026 **19 April, 2026**	**Dr. B.R.Ambedkar Jayanti/Vaisakhi** **Parshuram Jayanti /Akshay Tirtiya , Sunday**
4th Week **20 April - 25 April**	Calculation of average velocity and most probable velocity, collision diameter
26 April, 2026	**Sunday**
5th Week **27 April - 30 April**	Collision frequency and mean free path

May, 2026 **1st Week** **1 May – 2 May 2026**	Revision and Practice Numerical problems
3 May, 2026	**Sunday**
2nd Week **4 May- 5 May**	Revision tests
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester (January to May, 2026)

Name of the Teacher – Dr. Rimi (Inorganic & Organic) + Dr. Manju Singh (Physical)
Class – B. Sc. II (IV Semester)
Subject – Major Chemistry
Paper – B23-CHE-401

3rd Week **12 Jan – 17 Jan**	**Chemistry of d-Block elements** Definition of transition elements, General characteristic properties of d-Block elements, Comparison of ionic radii 3d, 4d and 5d series elements, magnetic properties, Stability of various oxidation states **Thermodynamics-I** First law of thermodynamics: statement, concepts of internal energy and enthalpy.
18 Jan, 2026	**Sunday**
4th Week **19 Jan – 24 Jan**	Latimer and Frost diagrams, Heat capacity, heat capacities at constant volume and pressure and their relationship.
23 Jan, 2026 **25 Jan, 2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ Basant Panchmi** **Sunday** **Republic Day**
5th Week **27 Jan – 31 Jan**	Structure of some compounds of transition elements- TiO_2, $VOCl_2$, $FeCl_3$, $CuCl_2$ and $Ni(CO)_4$.

February, 2026 **1st Week** **1 Feb, 2026**	**Guru Ravidas Jayanti , Sunday**
2 Feb – 7 Feb	**Chemistry of f-Block elements** Lanthanide contraction, oxidation states, magnetic properties, complex formation, colour and ionic radii. **Test of d-block elements**
8 Feb, 2026	**Sunday**
2nd Week **9 Feb - 14 Feb**	Actinides: General characteristics of actinides, Transuranic elements, comparison of properties of Lanthanides and actinides with transition elements. Assignment-I
15 Feb, 2026	**Maha Shivratri , Sunday**
3rd Week **16 Feb - 21 Feb**	**Theory of Qualitative and Quantitative Analysis** Chemistry of analysis of various groups of basic and acidic radicals, common ion effect,
22 Feb, 2026	**Sunday**
4th Week **23 Feb - 28 Feb**	solubility product, chemistry of identification of acid radicals in typical combination, theory of precipitation, co-precipitation, post precipitation, purification of precipitates. Joule– Thomson coefficient for ideal gas and real gas and inversion temperature

March, 2026 **1st Week** **1 March – 8 March**	**Holi Break**
2nd Week **9 March – 14 March**	Alcohols, Monohyric alcohols: nomenclature, methods of formation by reduction of aldehydes, ketones Assignment-II Calculation of w, q, dU & dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process.
15 March, 2026	**Sunday**
3rd Week **16 March – 20 March**	carboxylic acids, and esters. Hydrogen bonding, Acidic nature, Reactions of alcohols. Second law of thermodynamics, Test of first law of thermodynamics
21 March, 2026 **22 March, 2026** **23 March, 2026**	**Id-ul-Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4th Week **24 March – 28 March**	physical properties, and acidic character. Chemical Reactions: — electrophilic aromatic substitution, Mechanisms of Fries rearrangement, Claisen rearrangement, **Phenols** Nomenclature, structure, and bonding. Preparation: Cumene hydroperoxide method, from diazonium salts
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5th Week **30 March**	-
31 March, 2026	**Mahavir Jayanti**

April, 2026 **1st Week** **1 April – 4 April**	Reimer-Tiemann reaction, Kolbe's reaction. **Aldehydes and Ketones** Nomenclature and structure of the carbonyl group. Preparation: oxidation of alcohols, from acid chlorides and from nitriles Carnot cycles and its efficiency, Practice of Numerical problems.
5 April, 2026	**Sunday**
2nd Week **6 April - 11 April**	**Sessional Exams**
12 April, 2026	**Sunday**
3rd Week **13 April - 18 April**	Test of alcohol and phenols, Comparison of reactivities of aldehydes and ketones. Mechanism of nucleophilic additions to carbonyl group:
14 April, 2026 **19 April, 2026**	**Dr. B.R.Ambedkar Jayanti/Vaisakhi** **Parshuram Jayanti /Akshay Tirtiya , Sunday**
4th Week **20 April - 25 April**	benzoin, aldol, Perkin and Knoevenagel condensations. Wittig reaction. Mannich reaction, Baeyer–Villiger oxidation of ketones, Cannizzaro reaction, MPV. Concept of entropy, entropy as a function of V & T, entropy as a function of P &T.
26 April, 2026	**Sunday**
5th Week **27 April - 30 April**	**Chemical Equilibrium** Concept of Equilibrium constant, Temperature dependence of equilibrium constant,

May, 2026 **1st Week** **1 May – 2 May 2026**	Condensation with ammonia and its derivatives Clemmensen and Wolff- Kishner reductions. Clausius–Clapeyron equation and its applications. Practice Numerical problems
3 May, 2026	**Sunday**
2nd Week **4 May- 5 May**	-
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester (January to May, 2026)

Name of the Teacher – Dr. Rimi (Inorganic & Organic) + Dr. Manju Singh (Physical)
Class – B. Sc. III (VI Semester)
Subject – Minor Chemistry
Paper – B23-CHE-609

3rd Week **12 Jan – 17 Jan**	**Chemistry of d-Block elements** Definition of transition elements, General characteristic properties of d-Block elements, Comparison of ionic radii 3d, 4d and 5d series elements, **Photochemistry** Interaction of radiation with matter, difference between thermal and photochemical process,
18 Jan, 2026	**Sunday**
4th Week **19 Jan – 24 Jan**	magnetic properties, Stability of various oxidation states Latimer diagram, Law of photochemistry: Lambert-Beer Law, Grotthus-Drapper Law, .
23 Jan, 2026 **25 Jan, 2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ Basant Panchmi** **Sunday** **Republic Day**
5th Week **27 Jan – 31 Jan**	Frost Diagram, Structure of some compounds of transition elements- TiO_2, $VOCl_2$,

February, 2026 **1st Week** **1 Feb, 2026**	**Guru Ravidas Jayanti , Sunday**
2 Feb – 7 Feb	Structure of $FeCl_3$, $CuCl_2$ and $Ni(CO)_4$. **Test of d-block elements** Stark Einstein Law (Law of photochemical equivalence) **Numerical Problems**
8 Feb, 2026	**Sunday**
2nd Week **9 Feb - 14 Feb**	**Structure and Bonding** Localized and delocalized chemical bond, Van der Waals interactions. concept of singlet and triplet states, Jablonski diagram – depicting various process occurring in excited states including fluorescence , phosphorescence and non-radiative processes (internal conversion, intersystem crossing). Assignment-I
15 Feb, 2026	**Maha Shivratri , Sunday**
3rd Week **16 Feb - 21 Feb**	Concept of resonance and its applications, hyperconjugation, inductive effect hyperconjugation, inductive effect, Electromeric effect and their comparison.
22 Feb, 2026	**Sunday**
4th Week **23 Feb - 28 Feb**	**Benzene and its derivatives:** Nomenclature, Aromatic nucleus and side chain, Huckel's rule of aromaticity. Aromatic electrophilic substitution,

March, 2026 **1st Week** **1 March – 8 March**	**Holi Break**
2nd Week **9 March – 14 March**	mechanism of nitration, halogenation and Friedel- Crafts reaction. Energy profile diagrams. Activating and deactivating substituents.
15 March, 2026	**Sunday**
3rd Week **16 March – 20 March**	Test of Photochemistry **Biomolecules:** Definition, classification of biomolecules, importance of biomolecules in living organisms.
21 March, 2026 **22 March, 2026** **23 March, 2026**	**Id-ul-Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4th Week **24 March – 28 March**	**Carbohydrates:** Classification, structure and properties of monosaccharides,
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5th Week **30 March**	disaccharides structure and bonding (lactose and sucrose)
31 March, 2026	**Mahavir Jayanti**

April, 2026 **1st Week** **1 April – 4 April**	**Proteins:** Amino acids, structure
5 April, 2026	**Sunday**
2nd Week **6 April - 11 April**	**Sessional Exams**
12 April, 2026	**Sunday**
3rd Week **13 April - 18 April**	classification and properties, peptide bond
14 April, 2026 **19 April, 2026**	**Dr. B.R.Ambedkar Jayanti/Vaisakhi** **Parshuram Jayanti /Akshay Tirtiya , Sunday**
4th Week **20 April - 25 April**	and elementary idea of structure of proteins. Test of Structure and Bonding
26 April, 2026	**Sunday**
5th Week **27 April - 30 April**	Practice Numerical Problems Revision of Biomolecules

May, 2026 **1st Week** **1 May – 2 May 2026**	
3 May, 2026	**Sunday**
2nd Week **4 May- 5 May**	Test of Biomolecules
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester (January to May, 2026)

Name of the Teacher –Ms. Swati Bajaj (Inorganic & Organic) + Dr. Manju Singh (Physical)
Class – B. Sc. III (VI Semester)
Subject – Major Chemistry
Paper – B23-CHE-601

3rd Week **12 Jan – 17 Jan**	**NMR Spectroscopy** Principle of nuclear magnetic resonance, the PMR spectrum ,number of signals, peak areas, equivalent and nonequivalent protons positions of signals
18 Jan, 2026	**Sunday**
4th Week **19 Jan – 24 Jan**	Chemical shift, Shielding and Deshielding of protons, proton counting, splitting of signals
23 Jan, 2026 **25 Jan, 2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ Basant Panchmi** **Sunday** **Republic Day**
5th Week **27 Jan – 31 Jan**	Coupling constants, magnetic equivalence of protons. Discussion of PMR spectra of the molecules: ethyl bromide, n-propyl bromide.

February, 2026 **1st Week** **1 Feb, 2026**	**Guru Ravidas Jayanti , Sunday**
2 Feb – 7 Feb	Discussion of PMR spectra of the molecules. isopropyl bromide and 1,1-dibromoethane. **Photochemistry** Interaction of radiation with matter, difference between thermal and photochemical process
8 Feb, 2026	**Sunday**
2nd Week **9 Feb - 14 Feb**	**Amino acids , peptide** Amino acids, peptides, and their classification. alpha-Amino Acids-Synthesis. Ionic properties, and reactions. Zwitterions, PKa values. Assignment-I
15 Feb, 2026	**Maha Shivratri , Sunday**
3rd Week **16 Feb - 21 Feb**	Photochemistry-Law of photochemistry: Lambert-Beer Law. Grotthus-Drapper Law, Stark Einstein Law (Law of photochemical equivalence) Test of chapter no -4
22 Feb, 2026	**Sunday**
4th Week **23 Feb - 28 Feb**	Amino acids- Isoelectric point, and electrophoresis; Study of peptides: Synthesis of Peptides using N-protecting, C-protecting, and C- activating groups.

March, 2026 **1st Week** **1 March – 8 March**	**Holi Break**
2nd Week **9 March – 14 March**	**Carbohydrates** Occurrence, classification, and their biological importance Monosaccharides: Constitution and absolute configuration of glucose and fructose. Assignment-II
15 March, 2026	**Sunday**
3rd Week **16 March – 20 March**	Photochemistry-calculation of integrated absorption coefficient from electronic spectra oscillator strength, concept of singlet and triplet states.
21 March, 2026 **22 March, 2026** **23 March, 2026**	**Id-ul-Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4th Week **24 March – 28 March**	Jablonski diagram – depicting various process occurring in excited states including fluorescence , phosphorescence and non-radiative processes
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5th Week **30 March**	--
31 March, 2026	**Mahavir Jayanti**

April, 2026 **1st Week** **1 April – 4 April**	internal conversion, intersystem crossing. Calculation of lifetime of excited states. Quantum Yield, Photosensitized reaction- energy transfer process Haworth projection and conformational structures; Interconversion of aldoses and ketoses; Killiani-Fischer synthesis and Ruff degradation.
5 April, 2026	**Sunday**
2nd Week **6 April - 11 April**	**Sessional Exams**
12 April, 2026	**Sunday**
3rd Week **13 April - 18 April**	**IR Spectroscopy** Infrared (IR) absorption spectroscopy Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum. Carbohydrate- epimers and anomers, mutarotation, determination of ring size of glucose and fructose
14 April, 2026 **19 April, 2026**	**Dr. B.R.Ambedkar Jayanti/Vaisakhi** **Parshuram Jayanti /Akshay Tirtiya , Sunday**
4th Week **20 April - 25 April**	fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds.
26 April, 2026	**Sunday**
5th Week **27 April - 30 April**	**Bioinorganic chemistry** Metal ions present in biological system, classification based on action (essential, non-essential, trace, toxic).

May, 2026 **1st Week** **1 May – 2 May 2026**	Metalloporphyrins with special reference to haemoglobin and myoglobin.
3 May, 2026	**Sunday**
2nd Week **4 May- 5 May**	Biological role of Na^{+}, K^{+},Ca^{+2}, Mg^{+2}, Fe^{+2} ions . Cooperativity effect, Bohr effect.

6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester (January to May, 2026)

Name of the Teacher –Ms. Swati Bajaj
Class – B. Sc. III (VI Semester)
Subject – VOC (Green laboratory practices)
Paper – B23-VOC-321

3rd Week **12 Jan – 17 Jan**	Scheme for the traditional as well as green method for the synthesis of ibuprofen. Compare the amount and hazards of waste generated in both Green Methods in Chemistry.
18 Jan, 2026	**Sunday**
4th Week **19 Jan – 24 Jan**	Preparation of propene by two methods can be studied (I) Hoffman elimination (II) Dehydration of propanol
23 Jan, 2026 **25 Jan, 2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ Basant Panchmi** **Sunday** **Republic Day**
5th Week **27 Jan – 31 Jan**	Prevention/ minimization of hazardous/ toxic products reducing toxicity. Risk = (function) hazards exposure: (a) Nitration of salicylic acid using green method Ca(NO3)2

February, 2026 **1st Week** **1 Feb, 2026**	**Guru Ravidas Jayanti , Sunday**
2 Feb – 7 Feb	Prevention/ minimization of hazardous/ toxic products reducing toxicity. Risk = (function) hazards exposure (b) Preparation of dibenzalacetone by cross aldol condensation reaction using base catalysed green method (c) Acetylation of primary aromatic amine using the green method.
8 Feb, 2026	**Sunday**
2nd Week **9 Feb - 14 Feb**	Use of Green solvents and comparison of greenness of solvents: (a) Introduction to water as a solvent for chemical reactions. preparation of Manganese (III) acetylacetonate using green method Assignment-I
15 Feb, 2026	**Maha Shivratri , Sunday**
3rd Week **16 Feb - 21 Feb**	Use of Green solvents and comparison of greenness of solvents (b) Advantages and application of solventless processes in organic reactions.
22 Feb, 2026	**Sunday**
4th Week **23 Feb - 28 Feb**	Use of Green solvents and comparison of greenness of solvents (c) Benzil-Benzilic acid rearrangement in solid State under solvent-free Condition

March, 2026 **1st Week** **1 March – 8 March**	**Holi Break**
2nd Week **9 March – 14 March**	Energy requirements for reactions – alternative sources of energy Assignment-II
15 March, 2026	**Sunday**
3rd Week **16 March – 20 March**	use of microwaves and photochemical energy. (a) Photoreduction of benzophenone to benzopinacol in the presence of sunlight.
21 March, 2026 **22 March, 2026** **23 March, 2026**	**Id-ul-Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4th Week **24 March – 28 March**	b) Microwave assisted ammonium formate-mediated Knoevenagel reaction: p-anisaldehyde, ethyl cyanoacetate, ammonium formate.
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5th Week **30 March**	Importance of using catalytic reagents in preference to stoichiometric reagents; catalysis and green chemistry
31 March, 2026	**Mahavir Jayanti**

April, 2026 **1st Week** **1 April – 4 April**	-
5 April, 2026	**Sunday**
2nd Week **6 April - 11 April**	**Sessional Exams**
12 April, 2026	**Sunday**
3rd Week **13 April - 18 April**	comparison of heterogeneous and homogeneous catalysis, biocatalysis, asymmetric catalysis and photocatalysis. (a) Benzoin condensation using Thiamine Hydrochloride as a catalyst instead of cyanide
14 April, 2026 **19 April, 2026**	**Dr. B.R.Ambedkar Jayanti/Vaisakhi** **Parshuram Jayanti /Akshay Tirtiya , Sunday**
4th Week **20 April - 25 April**	(b) Rearrangement of diazoamino benzene to p-aminoazo benzene using K10 montmorillonite clay
26 April, 2026	**Sunday**
5th Week **27 April - 30 April**	Test

May, 2026 **1st Week** **1 May – 2 May 2026**	-
3 May, 2026	**Sunday**
2nd Week **4 May- 5 May**	Revision

6 May, 2026 Onwards	**University Examinations**