

KVA DAV College for Women, Karnal

Lesson plan for the Even semester (April, 2022 to June, 2022)

Name of the Teacher – Dr. Manju Singh

Paper- Physical Chemistry

Class- B.Sc-II (4th Sem)

Subject- Chemistry

April, 2022 2 nd Week 4 April -9 April	Thermodynamics Second law of thermodynamics, need for the law, different statements of the law, Carnot's cycles and its efficiency.
10 April, 2022	Sunday
3 rd Week 11 April-16 April	Carnot's theorem, Thermodynamics scale of temperature. Concept of entropy – entropy as a state function, entropy as a function of V & T, entropy as a function of P & T, entropy change in physical change, entropy as a criteria of spontaneity and equilibrium.
14 April, 2022 17 April, 2022	Vaisakhi Sunday
4 th Week 18 April- 23 April	Third law of thermodynamics: Nernst heat theorem, statement of concept of residual entropy, evaluation of absolute entropy from heat capacity data.
24 April, 2022	Sunday
5 th Week 25 April -30 April	Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities, G as criteria for thermodynamic equilibrium and spontaneity, its advantage over entropy change. Variation of G with P, V and T.
1 May, 2022	Sunday
May 2022 1 st Week 2 May -7 May	Assignment-1 Electrochemistry Electrolytic and Galvanic cells – reversible & irreversible cells, conventional representation of electrochemical cells.
3 May , 2022 8 May , 2022	Eid-ul-Fitr Sunday
2 nd Week 9 May -14 May	Calculation of thermodynamic quantities of cell reaction (ΔG , ΔH & K). Types of reversible electrodes – metal- metal ion, gas electrode, metal – insoluble salt- anion and redox electrodes. Electrode reactions.
15 May, 2022	Sunday
3 rd Week 16 May-21 May	Nernst equations, derivation of cell EMF and single electrode potential. Numericals

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Subject- Chemistry

22 May, 2022	Sunday
May, 2022 4 th Week 23 May--28 May	Assignment-2 Standard Hydrogen electrode, reference electrodes, standard electrode potential, sign conventions, Concentration cells with and without transference.
24 May,2022	Sessionals
29 May, 2022	Sunday
5 th Week 30 May -31 May	Liquid junction potential and its measurement. Applications of EMF measurement in solubility product
June 2022 1 st week 1 June - 4 June	Potentiometric titrations using glass electrode. Numericals
2 June, 2022 5 June, 2022	Maharana Pratap Jayanti Sunday
2 nd Week 6 June –11 June	Revision

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Lesson plan for the Even semester (April, 2022 to June, 2022)

Name of the Teacher – Dr. Manju Singh

Paper- Physical Chemistry

Class- B.Sc-III (6th Sem)

Subject- Chemistry

April, 2022 2 nd Week 4 April -9 April	Introduction to Statistical Mechanics Need for statistical thermodynamics, thermodynamic probability, Maxwell Boltzmann distribution statistics, Born -Oppenheimer approximation.
10 April, 2022	Sunday
3 rd Week 11 April-16 April	Partition function and its physical significance, Factorization of partition function.
14 April, 2022 17 April, 2022	Vaisakhi Sunday
4 th Week 18 April- 23 April	Photochemistry Interaction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry: Grothaus-Drapper law, StarkEinstein law (law of photochemical equivalence).
24 April, 2022	Sunday
5 th Week 25 April -30 April	Jablonski diagram depicting various processes occurring in the excited state, qualitative description of fluorescence, phosphorescence, non-radiative processes (internal conversion, intersystem crossing), quantum yield, photosensitized reactions-energy transfer processes (simple examples).
1 May, 2022	Sunday
May 2022 1 st Week 2 May -7 May	Assignment-1 Solutions, Dilute Solutions and Colligative Properties: Ideal and non-ideal solutions, methods of expressing concentrations of solutions, Dilute solutions, Raoult's law.
3 May , 2022 8 May , 2022	Eid-ul-Fitr Sunday
2 nd Week 9 May -14 May	Colligative properties: (i) relative lowering of vapour pressure (ii) Elevation in boiling point (iii) depression in freezing point (iv) osmotic pressure.
15 May, 2022	Sunday
3 rd Week 16 May-21 May	Thermodynamic derivation of relation between amount of solute and elevation in boiling point and depression in freezing point. Applications in calculating molar masses of normal , dissociated and associated solutes in solution.

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Name of the Teacher – Dr. Manju Singh

Paper- Physical Chemistry

Class- B.Sc-III (6th Sem)

Subject- Chemistry

22 May, 2022	Sunday
May, 2022 4 th Week 23 May--28 May	Assignment-2 Phase Equilibrium Statement and meaning of the terms – phase, component and degree of freedom, thermodynamic derivation of Gibbs phase rule,
24 May,2022	Sessionals
29 May, 2022	Sunday
5 th Week 30 May -31 May	Phase equilibria of one component system –Example – water system.
June 2022 1 st week 1 June - 4 June	Phase equilibria of two component systems solid-liquid equilibria, simple eutectic Example Pb-Ag system, desilverisation of lead.
2 June, 2022 5 June, 2022	Maharana Pratap Jayanti Sunday
2 nd Week 6 June –11 June	Revision

KVA DAV College for Women, Karnal

Lesson plan for the Even semester (April, 2022 to June, 2022)

Name of the Teacher – Mrs. Rajni

Paper- Organic Chemistry

Class- B.Sc. II (4th Sem)

Subject- Chemistry

April, 2022 2 nd Week 4 April -9 April	Infrared (IR) absorption spect roscopy Molecular vibrations, Hooke 's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region,
10 April, 2022	Sunday

3 rd Week 11 April-16 April	characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applications of IR spectroscopy in structure elucidation of simple organic compounds.
14 April, 2022 17 April, 2022	Vaisakhi Sunday
4 th Week 18 April- 23 April	Amines Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines.
24 April, 2022	Sunday
5 th Week 25 April -30 April	Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds). Gabriel - phthalimide reaction, Hofmann bromamide reaction.
1 May, 2022	Sunday
May 2022 1 st Week 2 May -7 May	Assignment-1 + Electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.
3 May , 2022 8 May , 2022	Eid-ul-Fitr Sunday
2 nd Week 9 May -14 May	Diazonium Salts Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H, OH, F, Cl, Br, I, NO ₂ and CN groups, reduction of diazonium salts to hydrazines, coupling reaction and its synthetic application.
15 May, 2022	Sunday
3 rd Week 16 May-21 May	Aldehydes and Ketones Nomenclature and structure of the carbonyl group. Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides, advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate

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Name of the Teacher – Ms. Rajni

Paper- Organic Chemistry

Class- B.Sc. II (4th Sem)

Subject- Chemistry

22 May, 2022	Sunday
May, 2022 4 th Week 23 May--28 May	Assignment-2 + Physical properties, Comparison of reactivities of aldehydes and ketones.
24 May, 2022	Sessionals
29 May, 2022	Sunday
5 th Week 30 May -31 May	Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol, Perkin and Knoevenagel condensations. Condensation with ammonia and its derivatives.
June 2022 1 st week 1 June - 4 June	Wittig reaction. Mannich reaction and Cannizzaro reaction. Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones, MPV, Clemmensen, Wolff-Kishner, LiAlH ₄ and NaBH ₄ reductions.
2 June, 2022 5 June, 2022	Maharana Pratap Jayanti Sunday
2 nd Week 6 June –11 June	Revision

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Lesson plan for the Even semester (April, 2022 to June, 2022)

Name of the Teacher – Ms. Rajni

Paper- Organic Chemistry

Class- B.Sc. III (6th Sem)

Subject- Chemistry

April, 2022 2 nd Week 4 April -9 April	Organic Synthesis via Enolates Acidity of α -hydrogens, alkylation of diethyl malonate and ethyl acetoacetate. Synthesis of ethyl acetoacetate: the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate.
10 April, 2022	Sunday
3 rd Week 11 April-16 April	Heterocyclic Compounds Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine. Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution.
14 April, 2022 17 April, 2022	Vaisakhi Sunday
4 th Week 18 April- 23 April	Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole. Introduction to condensed five and six- membered heterocycles.
24 April, 2022	Sunday
5 th Week 25 April -30 April	Preparation and reactions of indole, quinoline and isoquinoline with special reference to Fischer indole synthesis, Skraup synthesis and Bischler Napieralski synthesis.
1 May, 2022	Sunday
May 2022 1 st Week 2 May -7 May	Assignment-1 + Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline.
3 May , 2022 8 May , 2022	Eid-ul-Fitr Sunday
2 nd Week 9 May -14 May	Amino Acids, Peptides & Proteins Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis. Preparation of α -amino acids. Structure and nomenclature of peptides and proteins.
15 May, 2022	Sunday
3 rd Week 16 May-21 May	Classification of proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides.

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Name of the Teacher – Ms. Rajni

Paper- Organic Chemistry

Class- B.Sc. III (6th Sem)

Subject- Chemistry

22 May, 2022	Sunday
May, 2022 4 th Week 23 May--28 May	Assignment-2+ Classical peptide synthesis, solid-phase peptide synthesis. Structures of peptides and proteins : Primary & Secondary structure.
24 May, 2022	Sessionals
29 May, 2022	Sunday
5 th Week 30 May -31 May	Synthetic Polymers Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization, Ziegler – Natta polymerization and vinyl polymers.
June 2022 1 st week 1 June - 4 June	Condensation or step growth polymerization. Polyesters, polyamides, phenol formaldehyde resins. Natural and synthetic rubbers.
2 June, 2022 5 June, 2022	Maharana Pratap Jayanti Sunday
2 nd Week 6 June –11 June	Revision

KVA DAV College for Women, Karnal

Lesson plan for the Even semester (April, 2022 to June, 2022)

Name of the Teacher – Ms. Latika

Paper- Organic Chemistry

Class- B.Sc. I (2nd Sem)

Subject- Chemistry

April, 2022 2 nd Week 4 April -9 April	Alkenes Nomenclature of alkenes, mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halide. The Saytzeff rule, Hofmann elimination, physical properties and relative stabilities of alkenes.
10 April, 2022	Sunday
3 rd Week 11 April-16 April	Chemical reactions of alkenes • mechanisms involved in hydrogenation, electrophilic and free radical additions, Markownikoff's rule, hydroboration-oxidation, oxymercuration-reduction, ozonolysis, hydration, hydroxylation and oxidation with KMnO_4 .
14 April, 2022 17 April, 2022	Vaisakhi Sunday
4 th Week 18 April- 23 April	Arenes and Aromaticity Nomenclature of benzene derivatives : Aromatic nucleus and side chain. Aromaticity: the Huckel rule, aromatic ions, annulenes up to 10 carbon atoms, aromatic, anti-aromatic and non-aromatic compounds.
24 April, 2022	Sunday
5 th Week 25 April -30 April	Aromatic electrophilic substitution • general pattern of the mechanism, mechanism of nitration, halogenation, sulphonation, and Friedel-Crafts reaction.
1 May, 2022	Sunday
May 2022 1 st Week 2 May -7 May	Assignment-1 + Energy profile diagrams. Activating, deactivating substituents and orientation.
3 May , 2022 8 May , 2022	Eid-ul-Fitr Sunday
2 nd Week 9 May -14 May	Dienes and Alkynes Nomenclature and classification of dienes: isolated, conjugated and cumulated dienes. Structure of butadiene. Chemical reactions • 1,2 and 1,4 additions (Electrophilic & free radical mechanism), Diels-Alder reaction, Nomenclature, structure and bonding in alkynes. Methods of formation.
15 May, 2022	Sunday

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Lesson plan for the Even semester (April, 2022 to June, 2022)

Name of the Teacher – Ms. Latika

Paper- Organic Chemistry

Class- B.Sc.-I (2nd Sem)

Subject- Chemistry

3 rd Week 16 May-21 May	Chemical reactions of alkynes, acidity of alkynes. Mechanism of electrophilic and nucleophilic addition reactions, hydroboration-oxidation of alkynes.
22 May, 2022	Sunday
May, 2022 4 th Week 23 May--28 May	Assignment-2+ Alkyl and Aryl Halides Nomenclature and classes of alkyl halides, methods of formation, chemical reactions.
24 May, 2022	Sessionals
29 May, 2022	Sunday
5 th Week 30 May -31 May	Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides, S _N 2 and S _N 1 reactions with energy profile diagrams.
June 2022 1 st week 1 June - 4 June	Methods of formation and reactions of aryl halides The addition elimination and the elimination-addition mechanisms of nucleophilic aromatic substitution reactions. Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides.
2 June, 2022 5 June, 2022	Maharana Pratap Jayanti Sunday
2 nd Week 6 June –11 June	Revision

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Lesson plan for the Even semester (April, 2022 to June, 2022)

Name of the Teacher – Ms. Latika

Paper- Physical Chemistry

Class- B.Sc-I (2nd Sem)

Subject- Chemistry

April, 2022 2 nd Week 4 April -9 April	CHEMICAL KINETICS: Rate of reaction, rate equation, factors influencing the rate of a reaction-Concentration, temperature, pressure, solvent, light, catalyst.
10 April, 2022	Sunday
3 rd Week 11 April-16 April	Order of a reaction, integrated rate expression for zero order, first order, second order and third order reactions.
14 April, 2022 17 April, 2022	Vaisakhi Sunday
4 th Week 18 April- 23 April	Assignment-1 Half life period of a reaction, Methods of determination of order of reaction. Effect of temperature on the rate of reaction- Arrhenius equation
24 April, 2022	Sunday
5 th Week 25 April -30 April	Theories of reaction rate- Simple collision theory for unimolecular and bimolecular collision. Transition state theory of bimolecular reactions.
1 May, 2022	Sunday
May 2022 1 st Week 2 May -7 May	ELECTROCHEMISTRY: Electrolytic conduction, Factors affecting electrolytic conduction, molar conductance, equivalent conductance and relation among them, their variation with concentration.
3 May , 2022 8 May , 2022	Eid-ul-Fitr Sunday
2 nd Week 9 May -14 May	Arrhenius theory of ionization, Ostwald's Dilution Law, Debye-Huckel- Onsager's equation for strong electrolytes (elementary treatment only).
15 May, 2022	Sunday
3 rd Week 16 May-21 May	Assignment-2 Transport number, definition and determination by Hittorfs methods, Kohlrausch's law, Calculation of molar ionic conductance and effect of viscosity, temperature and pressure on it.

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Paper- Physical Chemistry

Class- B.Sc-I (2nd Sem)

Subject- Chemistry

22 May, 2022	Sunday
May, 2022 4 th Week 23 May--28 May	Applications of Kohlrausch's Law in calculation of conductance of weak electrolytes at infinite dilution + Numericals
24 May,2022	Sessionals
29 May, 2022	Sunday
5 th Week 30 May -31 May	Applications of conductivity measurements: determination of degree of dissociation, determination of K_a of acids, determination of solubility product of sparingly soluble salts, conductometric titrations.
June 2022 1 st week 1 June - 4 June	Definition of pH and pK_a , Buffer action, Henderson-Hassel equation, Buffer mechanism of buffer action
2 June, 2022 5 June, 2022	Maharana Pratap Jayanti Sunday
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Name of the Teacher – Ms. Manju

Paper- Inorganic Chemistry

Class- B.Sc-I (2nd Sem)

Subject- Chemistry

April, 2022 2 nd Week 4 April -9 April	Hydrogen Bonding and Van der Waals forces Hydrogen Bonding – Definition, types, effects of hydrogen bonding on properties of substances, application Brief discussion of various types of Van der Waals forces.
10 April, 2022	Sunday
3 rd Week 11 April-16 April	Metallic Bond and semiconductors Metallic bond – Qualitative idea of valence bond and Band theories of metallic bond (conductors, semiconductors, insulators). Semiconductors – Introduction, types and applications.
14 April, 2022 17 April, 2022	Vaisakhi Sunday
4 th Week 18 April- 23 April	s-Block elements Comparative study of the elements including diagonal relationship, Anomalous behaviour of Lithium and Beryllium compared to other elements in the same group, salient features of hydrides, oxides, halides, hydroxides (methods of preparation excluded), behaviour of solution in liquid NH ₃ .
24 April, 2022	Sunday
5 th Week 25 April -30 April	Chemistry of Noble Gases General physical properties, low chemical reactivity, chemistry of xenon, structure and bonding in fluorides, oxides and oxyfluorides of xenon
1 May, 2022	Sunday
May 2022 1 st Week 2 May -7 May	ASSINGMENT -1 p-Block elements: Electronic configuration, atomic and ionic size, metallic character, melting point, ionization energy, electron affinity, electronegativity, inert pair effect and diagonal relationship
3 May , 2022 8 May , 2022	Eid-ul-Fitr Sunday
2 nd Week 9 May -14 May	Boron family (13th group): Diborane: Preparation, properties and structure (as an example of electron deficient compound and multicenter bonding), Borazine chemical properties and structure, relative strength of Trihalide of Boron as lewis acids, structure of aluminium(III) chloride.
15 May, 2022	Sunday
3 rd Week 16 May-21 May	Carbon family and Nitrogen family (14th and 15th group): Catenation, Carbides, fluoro carbons, silicates (structural aspects). Oxides: Structure of oxides of nitrogen and phosphorus

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Paper- Inorganic Chemistry

Class- B.Sc-I (2nd Sem)

Subject- Chemistry

22 May, 2022	Sunday
May, 2022 4 th Week 23 May--28 May	ASSIGNMENT-2 Oxyacids : Structure and relative acid strength of oxy acids of nitrogen and phosphorus, structure of white and Red phosphorus
24 May,2022	Sessionals
29 May, 2022	Sunday
5 th Week 30 May -31 May	Oxygen family (16th group): Oxy acids of sulphur – structure and acidic strength, Hydrogen Peroxide – properties and uses.
June 2022 1 st week 1 June - 4 June	Halogen family (17th group): Interhalogen compounds (their properties and structures) Hydra and oxy acids of chlorine – structure and comparison of acid strength, cationic nature of Iodine.
2 June, 2022 5 June, 2022	Maharana Pratap JayantiSunday
2 nd Week 6 June –11 June	Revision

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Name of the Teacher – Ms. Manju

Paper- Inorganic Chemistry

Class- B.Sc-II (4th Sem)

Subject- Chemistry

April, 2022 2 nd Week 4 April -9 April	Basic Introduction OF F-BLOCK ELEMENTS
10 April, 2022	Sunday
3 rd Week 11 April-16 April	Chemistry of f-Block elements Lanthanides: Electronic structure, oxidation states, magnetic properties, complex formation,
14 April, 2022 17 April, 2022	Vaisakhi Sunday
4 th Week 18 April- 23 April	colour, ionic radii and lanthanide contraction, occurrence, separation of lanthanides, Lanthanide compounds.
24 April, 2022	Sunday
5 th Week 25 April -30 April	Actinides: General characteristics of actinides, chemistry of separation of Np, Pu and Am from uranium .
1 May, 2022	Sunday
May 2022 1 st Week 2 May -7 May	Transuranic elements, comparison of properties of Lanthanides and actinides with transition elements
3 May , 2022 8 May , 2022	Eid-ul-Fitr Sunday
2 nd Week 9 May -14 May	Theory of Qualitative and Quantitative Analysis Chemistry of analysis of various groups of basic and acidic radicals,
15 May, 2022	Sunday
3 rd Week 16 May-21 May	Chemistry of identification of acid radicals in typical combination,

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Class- B.Sc-II (4th Sem)

Subject- Chemistry

22 May, 2022	Sunday
May, 2022 4 th Week 23 May--28 May	chemistry of interference of acid radicals including their removal in the analysis of basic radicals.
24 May,2022	Sessionals
29 May, 2022	Sunday
5 th Week 30 May -31 May	ASSIGNMENT-2 Common Ion effect, solubility product
June 2022 1 st week 1 June - 4 June	Theory of precipitation, co-precipitation, post-precipitation, purification of precipitates.
2 June, 2022 5 June, 2022	Maharana Pratap Jayanti Sunday
2 nd Week 6 June –11 June	Revision

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Lesson plan for the Even semester (April, 2022 to June, 2022)

Name of the Teacher – Ms. Manju

Paper- Inorganic Chemistry

Class- B.Sc-III (6th Sem)

Subject- Chemistry

April, 2022 2 nd Week 4 April -9 April	Basic-Introduction OF Acids-Bases
10 April, 2022	Sunday
3 rd Week 11 April-16 April	Acids and Bases Arrhenius, Bronsted-lowry, Lux-flood, solvent system and Lewis concept of acids and bases, relative strength of acids and bases
14 April, 2022 17 April, 2022	Vaisakhi Sunday
4 th Week 18 April- 23 April	Levelling solvents, hard and soft acids and bases(HSAB), Applications of HSAB principle
24 April, 2022	Sunday
5 th Week 25 April -30 April	Preparation, properties and bonding of alkyls of Li, Al, Hg and Sn, concept of hapticity of organic ligand,
1 May, 2022	Sunday
May 2022 1 st Week 2 May -7 May	ASSIGNMENT-1 Structure and bonding in metal-ethylenic complexes, Structure of Ferrocene
3 May , 2022 8 May , 2022	Eid-ul-Fitr Sunday
2 nd Week 9 May -14 May	Classification in metal carbonyls, preparation, properties and bonding in mononuclear carbonyls.
15 May, 2022	Sunday
3 rd Week 16 May-21 May	Bio inorganic chemistry Metal ions present in biological system, classification on the basis of action (essential, non essential, trace, toxic)

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Paper- Inorganic Chemistry

Class- B.Sc-III (6th Sem)

Subject- Chemistry

22 May, 2022	Sunday
May, 2022 4 th Week 23 May--28 May	ASSIGNMENT-2 Metalloporphyrins with special reference to haemoglobin and myoglobin.
24 May, 2022	Sessionals Elastomers, polysiloxane copolymers,
29 May, 2022	Sunday
5 th Week 30 May -31 May	Biological role of Na ⁺ , K ⁺ , Ca ⁺² , Mg ⁺² , Fe ⁺² ions, Cooperative effect, Bohr effect.
June 2022 1 st week 1 June - 4 June	Poly phosphazenes and bonding in triphosphazene. Silicones and Phosphazenes Nomenclature, classification, preparation and uses of silicones
2 June, 2022 5 June, 2022	Maharana Pratap Jayanti Sunday
2 nd Week 6 June –11 June	Revision