

Lesson Plan (2021-22)-Even Semester

Name of the Assistant: Dr. Shri Bhagwan

Class and Section: B.Sc. 3rd (6th semester Non-Med)

Subject: Inorganic Chemistry

Week	Date	Topics
1	25.03.2022	Introduction of Unit-I Organometallic Chemistry
	26.03.2022	Preparation of alkyls of Lithium
2	01.04.2022	Preparation and Properties of alkyls of Lithium
	02.04.2022	Preparation and Properties of alkyls of Aluminum
3	08.04.2022	Preparation and Properties of alkyls of Mercury
	09.04.2022	Brief account of metal-ethylenic complexes
4	15.04.2022	Nature of bonding in metal carbonyls
	16.04.2022	Test-1 (Unit-I Organometallic Chemistry)
5	22.04.2022	Introduction of Unit-II Acids and Bases, HSAB Concept
	23.04.2022	Arrhenius & Bronsted, Lux – Flood, Solvent system, Lowry concepts & Lewis concept of acids & bases
6	29.04.2022	Relative strength of acids & bases, Concept of Hard and Soft Acids & Bases
	30.04.2022	Symbiosis & Electronegativity and hardness and softness
7	06.05.2022	Introduction of Unit-III Bioinorganic Chemistry (Essential and trace elements in biological processes)
	07.05.2022	Metalloporphyrins with special reference to hemoglobin & Myoglobin
8	13.05.2022	Biological role of alkali and alkaline earth metal ions
	14.05.2022	Na ⁺ - K ⁺ pump & Ca ²⁺ pump
9	20.05.2022	Nitrogen Fixation
	21.05.2022	Photosynthesis
10	27.05.2022	Problem Discussion of Unit-II & Unit-III
	28.05.2022	Introduction of Unit-III Silicones and Phosphazenes
11	03.06.2022	Preparation of Silicones
	04.06.2022	Properties of Silicones
12	10.06.2022	Structure of Silicones
	11.06.2022	Uses of Silicones
13	17.06.2022	Preparation of Phosphazenes
	18.06.2022	Properties of Phosphazenes
14	24.06.2022	Structure & uses of Phosphazenes
	25.06.2022	Uses of Phosphazenes
15	01.07.2022	Test-4 (Unit-IV Silicones and Phosphazenes)
	02.07.2022	Revision
16	08.07.2022	Revision
	09.07.2022	Revision
17		Even Semester Examination (11.07.2022 onwards)

Lesson Plan (2021-22)-Even Semester

Name of the Assistant: Dr. Shri Bhagwan

Class and Section: B.Sc. 3rd (6th semester Med)

Subject: Inorganic Chemistry

Week	Date	Topics
1	21.03.2022	Introduction of Unit-I Organometallic Chemistry
	22.03.2022	Preparation of alkyls of Lithium
2	28.03.2022	Preparation and Properties of alkyls of Lithium
	29.03.2022	Preparation and Properties of alkyls of Aluminum
3	04.04.2022	Preparation and Properties of alkyls of Mercury
	05.04.2022	Brief account of metal-ethylenic complexes
4	11.04.2022	Nature of bonding in metal carbonyls
	12.04.2022	Test-1 (Unit-I Organometallic Chemistry)
5	18.04.2022	Introduction of Unit-II Acids and Bases, HSAB Concept
	19.04.2022	Arrhenius & Bronsted, Lux – Flood, Solvent system, Lowry concepts & Lewis concept of acids & bases
6	25.04.2022	Relative strength of acids & bases, Concept of Hard and Soft Acids & Bases
	26.04.2022	Symbiosis & Electronegativity and hardness and softness
7	02.05.2022	Introduction of Unit-III Bioinorganic Chemistry (Essential and trace elements in biological processes)
	03.05.2022	Id-ul-Fitr/Parshuram Jayanti
8	09.05.2022	Biological role of alkali and alkaline earth metal ions
	10.05.2022	Na ⁺ - K ⁺ pump & Ca ²⁺ pump
9	16.05.2022	Nitrogen Fixation
	17.05.2022	Photosynthesis
10	23.05.2022	Problem Discussion of Unit-II & Unit-III
	24.05.2022	Introduction of Unit-III Silicones and Phosphazenes
11	30.05.2022	Preparation of Silicones
	31.05.2022	Properties of Silicones
12	06.06.2022	Structure of Silicones
	07.06.2022	Uses of Silicones
13	13.06.2022	Preparation of Phosphazenes
	14.06.2022	Sant Kabir Jayanti
14	20.06.2022	Structure & uses of Phosphazenes
	21.06.2022	Uses of Phosphazenes
15	27.06.2022	Test-4 (Unit-IV Silicones and Phosphazenes)
	28.06.2022	Revision
16	04.07.2022	Revision
	05.07.2022	Revision
17	11.07.2022	Even Semester Examination

Lesson Plan (2021-22)-Even Semester

Name of the Assistant Professor: PINKI YADAV

Class and Section: B.Sc-I (NM)

SEMESTER - II

Subject: Organic Chemistry

Week	Date	Topics
1	21.03.2022	ALKENES - NOMENCLATURE
	22.03.2022	Methods of Formation of alkenes
	23.03.2022	
	24.03.2022	
	25.03.2022	
	26.03.2022	
2	28.03.2022	Physical properties of alkenes
	29.03.2022	stabilities of alkenes
	30.03.2022	
	31.03.2022	
	01.04.2022	
	02.04.2022	
3	04.04.2022	chemical rxn's of alkenes
	05.04.2022	chemical rxn's of alkenes
	06.04.2022	
	07.04.2022	
	08.04.2022	
	09.04.2022	
4	11.04.2022	Test
	12.04.2022	Arenes and Aromaticity - Nomenclature
	13.04.2022	
	14.04.2022	
	15.04.2022	
	16.04.2022	
5	18.04.2022	Aromaticity - Huckel rule
	19.04.2022	ARSE Rxn's
	20.04.2022	
	21.04.2022	
	22.04.2022	

	23.04.2022	
6	25.04.2022	Energy profile diagram
	26.04.2022	Test
	27.04.2022	
	28.04.2022	
	29.04.2022	
	30.04.2022	
7	02.05.2022	Dienes and Alkynes - Nomenclature, classification
	03.05.2022	Parshuram Jayanti
	04.05.2022	
	05.05.2022	
	06.05.2022	
	07.05.2022	
8	09.05.2022	chemical Rxn's of dienes
	10.05.2022	Methods of formation of dienes
	11.05.2022	
	12.05.2022	
	13.05.2022	
	14.05.2022	
9	16.05.2022	chemical Rxn's of alkynes
	17.05.2022	Mechanisms of reactions
	18.05.2022	
	19.05.2022	
	20.05.2022	
	21.05.2022	
10	23.05.2022	Methods of formation of alkynes
	24.05.2022	Test
	25.05.2022	
	26.05.2022	
	27.05.2022	
	28.05.2022	
11	30.05.2022	ALKYL HALIDES - NOMENCLATURE AND CLASSIFICATION
	31.05.2022	Methods of formation of alkyl halides
	01.06.2022	
	02.06.2022	
	03.06.2022	

	04.06.2022	
12	06.06.2022	chemical reactions of alkyl halides
	07.06.2022	stereochemistry of alkyl halides
	08.06.2022	
	09.06.2022	
	10.06.2022	
	11.06.2022	
13	13.06.2022	Energy Profile diagram
	14.06.2022	Sant Kabir Jayanti
	15.06.2022	
	16.06.2022	
	17.06.2022	
	18.06.2022	
14	20.06.2022	Reactions of Aryl halides
	21.06.2022	ArSN ² Reactions
	22.06.2022	
	23.06.2022	
	24.06.2022	
	25.06.2022	
15	27.06.2022	Relative reactivities of halides
	28.06.2022	Test
	29.06.2022	
	30.06.2022	
	01.07.2022	
	02.07.2022	
16	04.07.2022	Revision
	05.07.2022	Revision
	06.07.2022	
	07.07.2022	
	08.07.2022	
	09.07.2022	
17	10.07.2022	

Lesson Plan (2021-22)-Even Semester

Name of the Assistant Professor: PINKI YADAV
Class and Section: B.Sc-II (N.M) SEMESTER - IV
Subject: Organic chemistry

Week	Date	Topics
1	21.03.2022	
	22.03.2022	
	23.03.2022	
	24.03.2022	
	25.03.2022	IR SPECTROSCOPY - HOOKE'S LAW, SELECTION RULES
	26.03.2022	POSITION AND MEASUREMENT OF IR SPECTRUM
2	28.03.2022	
	29.03.2022	
	30.03.2022	
	31.03.2022	
	01.04.2022	ABSORPTION OF FUNCTIONAL GROUPS
	02.04.2022	INTERPRETATION OF IR SPECTRA
3	04.04.2022	
	05.04.2022	
	06.04.2022	
	07.04.2022	
	08.04.2022	APPLICATION OF IR SPECTRA
	09.04.2022	TEST
4	11.04.2022	
	12.04.2022	
	13.04.2022	
	14.04.2022	
	15.04.2022	AMINES - STRUCTURE AND NOMENCLATURE
	16.04.2022	PHYSICAL PROPERTIES, SEPARATION OF AMINES
5	18.04.2022	
	19.04.2022	
	20.04.2022	
	21.04.2022	
	22.04.2022	BASICITY OF AMINES

	23.04.2022	PREPARATION OF AMINES
6	25.04.2022	
	26.04.2022	
	27.04.2022	
	28.04.2022	
	29.04.2022	AYSE IN ARYL AMINES
	30.04.2022	TEST
7	02.05.2022	
	03.05.2022	
	04.05.2022	
	05.05.2022	
	06.05.2022	DIAZONIUM SALTS - MECH. OF DIAZOTIZATION
	07.05.2022	REPLACEMENT OF DIAZO GROUP
8	09.05.2022	
	10.05.2022	
	11.05.2022	
	12.05.2022	
	13.05.2022	REDUCTION OF DIAZONIUM SALTS
	14.05.2022	COUPLING REACTIONS
9	16.05.2022	
	17.05.2022	
	18.05.2022	
	19.05.2022	
	20.05.2022	TEST
	21.05.2022	ALDEHYDES AND KETONES - NOMENCLATURE
10	23.05.2022	
	24.05.2022	
	25.05.2022	
	26.05.2022	
	27.05.2022	SYNTHESIS OF ALDEHYDES AND KETONES
	28.05.2022	PHYSICAL PROPERTIES
11	30.05.2022	
	31.05.2022	
	01.06.2022	
	02.06.2022	
	03.06.2022	COMPARISON OF REACTIVITY

	04.06.2022	MECH. OF NUCLEOPHILIC ADDITIONS TO CARBONYL GROUP
12	06.06.2022	
	07.06.2022	
	08.06.2022	
	09.06.2022	
	10.06.2022	NAME REACTIONS
	11.06.2022	
13	13.06.2022	
	14.06.2022	
	15.06.2022	
	16.06.2022	
	17.06.2022	TEST
	18.06.2022	REVISION
14	20.06.2022	
	21.06.2022	
	22.06.2022	
	23.06.2022	
	24.06.2022	REVISION
	25.06.2022	REVISION
15	27.06.2022	
	28.06.2022	
	29.06.2022	
	30.06.2022	
	01.07.2022	REVISION
	02.07.2022	TEST
16	04.07.2022	
	05.07.2022	
	06.07.2022	
	07.07.2022	
	08.07.2022	REVISION
	09.07.2022	REVISION
17	10.07.2022	

Lesson Plan (2021-22)-Even Semester

Name of the Assistant Professor: PINKI YADAV
Class and Section: B.Sc-III (N.M) SEMESTER - VI
Subject: Physical chemistry

Week	Date	Topics
1	21.03.2022	
	22.03.2022	
	23.03.2022	Sheedi diwas -
	24.03.2022	Electronic spectrum - Potential energy curves
	25.03.2022	
	26.03.2022	
2	28.03.2022	
	29.03.2022	
	30.03.2022	Selection rules and Frank-Condon principle
	31.03.2022	Qualitative description of Molecular orbitals
	01.04.2022	
	02.04.2022	
3	04.04.2022	
	05.04.2022	
	06.04.2022	Qualitative description of Molecular orbitals
	07.04.2022	Test
	08.04.2022	
	09.04.2022	
4	11.04.2022	
	12.04.2022	
	13.04.2022	Photochemistry - Thermal and Photochemical process
	14.04.2022	Dr. Ambedkar Jayanti
	15.04.2022	
	16.04.2022	
5	18.04.2022	
	19.04.2022	
	20.04.2022	Law of photochemistry
	21.04.2022	''
	22.04.2022	

	23.04.2022	
6	25.04.2022	
	26.04.2022	
	27.04.2022	Jablonski diagram
	28.04.2022	Description of Fluorescence and Phosphorescence
	29.04.2022	
	30.04.2022	
7	02.05.2022	
	03.05.2022	
	04.05.2022	Non-radiative processes
	05.05.2022	photosensitization Reaction
	06.05.2022	-
	07.05.2022	
8	09.05.2022	
	10.05.2022	
	11.05.2022	Test
	12.05.2022	Solutions - Ideal and Non-ideal Solutions
	13.05.2022	
	14.05.2022	
9	16.05.2022	
	17.05.2022	
	18.05.2022	Con. of solutions, Activity and Activity Coefficient
	19.05.2022	Colligative properties
	20.05.2022	
	21.05.2022	
10	23.05.2022	
	24.05.2022	
	25.05.2022	Colligative properties
	26.05.2022	1)
	27.05.2022	
	28.05.2022	
11	30.05.2022	
	31.05.2022	
	01.06.2022	Colligative properties
	02.06.2022	Maharaja Pratap Jayanti
	03.06.2022	

12	04.06.2022	
	06.06.2022	
	07.06.2022	
	08.06.2022	Abnormal molar mass, Degree of dissociation and association
	09.06.2022	
	10.06.2022	
13	11.06.2022	
	13.06.2022	
	14.06.2022	
	15.06.2022	Test
	16.06.2022	Phase equilibrium - Meaning of the terms
	17.06.2022	
18.06.2022		
14	20.06.2022	
	21.06.2022	
	22.06.2022	Phase Component, Degree of freedom Gibbs phase rule
	23.06.2022	
	24.06.2022	
	25.06.2022	
15	27.06.2022	
	28.06.2022	
	29.06.2022	Phase equilibria of one component system Phase equilibria of two component system
	30.06.2022	
	01.07.2022	
	02.07.2022	
16	04.07.2022	
	05.07.2022	
	06.07.2022	Test
	07.07.2022	Revision
	08.07.2022	
	09.07.2022	
17	10.07.2022	

Lesson Plan (2021-22)-Even Semester

Name of the Assistant Professor: DR. SUMAN KUMARI

Class and Section: B.SC IInd, SEC A + B. (N.M) -

Subject: Inorganic Chemistry

Week	Date	Topics
1	21.03.2022	
	22.03.2022	
	23.03.2022	Govt. Holiday
	24.03.2022	Introduction of "d and f" block elements
	25.03.2022	
	26.03.2022	
2	28.03.2022	
	29.03.2022	
	30.03.2022	Introduction of f-Block elements, Electronic structure
	31.03.2022	
	01.04.2022	
	02.04.2022	
3	04.04.2022	
	05.04.2022	
	06.04.2022	Complex formation, ionic radii
	07.04.2022	
	08.04.2022	
	09.04.2022	
4	11.04.2022	
	12.04.2022	
	13.04.2022	occurrence, Separation of lanthanides
	14.04.2022	
	15.04.2022	
	16.04.2022	
5	18.04.2022	
	19.04.2022	
	20.04.2022	Lanthanide Compounds
	21.04.2022	
	22.04.2022	

	23.04.2022	
6	25.04.2022	
	26.04.2022	
	27.04.2022	Introduction of Actinides: Gen. ch. of actinides, Chemistry of sep ⁿ of NP, Pu and Am from U.
	28.04.2022	
	29.04.2022	
	30.04.2022	
7	02.05.2022	
	03.05.2022	
	04.05.2022	Transuranic Elements. Difference b/w Lanthanides and actinides
	05.05.2022	
	06.05.2022	
	07.05.2022	
8	09.05.2022	
	10.05.2022	
	11.05.2022	Comp ⁿ of Prop. of Lanthanides and actinides
	12.05.2022	
	13.05.2022	Comp ⁿ of Prop. of Ln and AC with T. Elements.
	14.05.2022	
9	16.05.2022	
	17.05.2022	
	18.05.2022	Intro: Theory of Qualitative and Quantitative analysis. Chemistry of analysis of various groups.
	19.05.2022	
	20.05.2022	
	21.05.2022	
10	23.05.2022	
	24.05.2022	
	25.05.2022	Identification of acid radicals in typical comb ⁿ Chemistry of interference of acid radicals
	26.05.2022	
	27.05.2022	
	28.05.2022	
11	30.05.2022	
	31.05.2022	
	01.06.2022	Removal of acid radicals in the analysis of B.A. Govt. Holiday
	02.06.2022	
	03.06.2022	

12	04.06.2022	
	06.06.2022	
	07.06.2022	
	08.06.2022	Common ion effect, Solubility Product
	09.06.2022	
	10.06.2022	
	11.06.2022	
13	13.06.2022	
	14.06.2022	
	15.06.2022	Theory of Precipitation. Co-Precipitation.
	16.06.2022	
	17.06.2022	
	18.06.2022	
14	20.06.2022	
	21.06.2022	
	22.06.2022	Post Precipitation Purification of Precipitates
	23.06.2022	
	24.06.2022	
	25.06.2022	
15	27.06.2022	
	28.06.2022	
	29.06.2022	Problem discussion of III ^{III} rd chapter Test of Lanthanides elements.
	30.06.2022	
	01.07.2022	
	02.07.2022	
16	04.07.2022	
	05.07.2022	
	06.07.2022	Test of Actinides. Test of III ^{III} rd chapter.
	07.07.2022	
	08.07.2022	
	09.07.2022	
17	10.07.2022	

Lesson Plan (2021-22)-Even Semester

Name of the Assistant Professor: DR. SUMAN KUMARI

Class and Section: B.Sc IIIrd Sec. A+B (N.M)

Subject: Organic Chemistry

Week	Date	Topics
1	21.03.2022	Introduction: Heterocyclic comp ^d , Mol. orbital Picture
	22.03.2022	Aromatic characteristics of Pyrrole and furan.
	23.03.2022	
	24.03.2022	
	25.03.2022	
	26.03.2022	
2	28.03.2022	Aromatic characteristics of thiophene and Pyridine
	29.03.2022	Methods of synthesis and chemical reactions.
	30.03.2022	
	31.03.2022	
	01.04.2022	
	02.04.2022	
3	04.04.2022	Mechanism of electrophilic and Nucleophilic sub st
	05.04.2022	Comp ⁿ of Basicity of Pyridine with Pyrrole.
	06.04.2022	
	07.04.2022	
	08.04.2022	
	09.04.2022	
4	11.04.2022	Comp ⁿ of Basicity of Pyridine and Piperidine
	12.04.2022	Introduction: to Condensed five and six memb. Hetero
	13.04.2022	
	14.04.2022	
	15.04.2022	
	16.04.2022	
5	18.04.2022	Preparation and Reactions of Indole.
	19.04.2022	Preparation and Rx ⁿ of quinaline and Isoquinoline
	20.04.2022	
	21.04.2022	
	22.04.2022	

	23.04.2022	
6	25.04.2022	Fisher Indole Synthesis.
	26.04.2022	Skraup Synthesis and Problem discussion.
	27.04.2022	
	28.04.2022	
	29.04.2022	
	30.04.2022	
7	02.05.2022	Maharana Pratap Tyarti.
	03.05.2022	Bischler-Napieralski Synthesis
	04.05.2022	
	05.05.2022	
	06.05.2022	
	07.05.2022	
8	09.05.2022	Mech. of electrophilic sub ⁿ Rx ⁿ of quinoline
	10.05.2022	Mech. of electrophilic sub ⁿ Rx ⁿ of Isoquinoline
	11.05.2022	
	12.05.2022	
	13.05.2022	
	14.05.2022	
9	16.05.2022	Nomenclature, structural features of o.s. Comp ^d .
	17.05.2022	Methods of form ⁿ and Chemical Rx ⁿ of thiols
	18.05.2022	
	19.05.2022	
	20.05.2022	
	21.05.2022	
10	23.05.2022	Chemical Rx ⁿ of thioethers and Sulphonic acid.
	24.05.2022	Chem. Rx ⁿ of Sulphonamides and Sulphaguanidine
	25.05.2022	
	26.05.2022	
	27.05.2022	
	28.05.2022	
11	30.05.2022	Synthetic detergents alkyl and aryl Sulphonates
	31.05.2022	Acidity of α -Hydrogen, alkylation of diethylmalone
	01.06.2022	
	02.06.2022	
	03.06.2022	

	04.06.2022	
12	06.06.2022	Synthesis of ethyl acetoacetate, C.C and keto-enol T. Addition or chain-growth polymerization.
	07.06.2022	
	08.06.2022	
	09.06.2022	
	10.06.2022	
	11.06.2022	
13	13.06.2022	Free rad. Vinyl poly ⁿ ionic vinyl Poly ⁿ , Z. Natta P.
	14.06.2022	
	15.06.2022	
	16.06.2022	
	17.06.2022	
	18.06.2022	
14	20.06.2022	Step-growth Poly ⁿ , polyesters, Polyamides, P.F.R. urea formaldehyde resins, epoxy resins. N.S.R.
	21.06.2022	
	22.06.2022	
	23.06.2022	
	24.06.2022	
	25.06.2022	
15	27.06.2022	Classification of amino acids, Acid-base behavior. St. and Nomen. of Peptides and Proteins. Peptide st.
	28.06.2022	
	29.06.2022	
	30.06.2022	
	01.07.2022	
	02.07.2022	
16	04.07.2022	end grp analysis, selective hydrolysis of Peptides Solid-phase peptide Syn. Proteins. Primary and sec.
	05.07.2022	
	06.07.2022	
	07.07.2022	
	08.07.2022	
	09.07.2022	
17	10.07.2022	

Lesson Plan (2021-22)-Even Semester

Name of the Assistant Professor: Mr. Vipin

Class and Section: B.Sc.1st (2nd semester) Medical

Subject: Physical Chemistry

Week	Date	Topics
1	21.03.2022	Basic introduction about the syllabus
	22.03.2022	Hydrogen Bonding – Definition, Types
	23.03.2022	Shaheedi Diwas
	24.03.2022	
	25.03.2022	
	26.03.2022	
2	28.03.2022	Effects of hydrogen bonding on properties of substances, application
	29.03.2022	Brief discussion of various types of Vander Waals Forces
	30.03.2022	
	31.03.2022	
	01.04.2022	
	02.04.2022	
3	04.04.2022	Metallic Bond- Brief introduction to metallic bond
	05.04.2022	band theory of metallic bond
	06.04.2022	
	07.04.2022	
	08.04.2022	
	09.04.2022	
4	11.04.2022	Semiconductors- Introduction, types and applications
	12.04.2022	Comparative study of the elements including , diagonal relationships, salient features of hydrides (methods of preparation excluded)
	13.04.2022	
	14.04.2022	Dr. B R Ambedkar Jayanti
	15.04.2022	
	16.04.2022	
5	18.04.2022	Solvation and complexation tendencies including their function in biosystems.
	19.04.2022	Chemical properties of the noble gases with emphasis on their low chemical reactivity, chemistry of xenon,
	20.04.2022	

	21.04.2022	
	22.04.2022	
	23.04.2022	
6	25.04.2022	Structure and bonding of fluorides, oxides & oxyfluorides of xenon.
	26.04.2022	Test-1 (Section A and B)
	27.04.2022	
	28.04.2022	
	29.04.2022	
	30.04.2022	
7	02.05.2022	Id-ul-Fitr
	03.05.2022	Emphasis on comparative study of properties of p-block elements (including diagonal relationship and excluding methods of preparation).
	04.05.2022	
	05.05.2022	
	06.05.2022	
	07.05.2022	
8	09.05.2022	Diborane – properties and structure (as an example of electron – deficient compound and multicentre bonding)
	10.05.2022	Borazene – chemical properties and structure Trihalides of Boron
	11.05.2022	
	12.05.2022	
	13.05.2022	
	14.05.2022	
9	16.05.2022	Trends in Lewis acid character structure of aluminium (III) chloride.
	17.05.2022	Catenation, $p\pi - d\pi$ bonding (an idea), carbides
	18.05.2022	
	19.05.2022	
	20.05.2022	
	21.05.2022	
10	23.05.2022	Fluorocarbons, silicates (structural aspects)
	24.05.2022	Silicons – general methods of preparations, properties and uses.
	25.05.2022	
	26.05.2022	
	27.05.2022	
	28.05.2022	
11	30.05.2022	Oxides – structures of oxides of N,P

	31.05.2022	Oxyacids – structure and relative acid strengths of oxyacids of Nitrogen and phosphorus.
	01.06.2022	
	02.06.2022	Maharana Pratap Jayanti
	03.06.2022	
	04.06.2022	
12	06.06.2022	Oxyacids – structure and relative acid strengths of oxyacids of Nitrogen and phosphorus.
	07.06.2022	Oxyacids – structure and relative acid strengths of oxyacids of Nitrogen and phosphorus.
	08.06.2022	
	09.06.2022	
	10.06.2022	
	11.06.2022	
13	13.06.2022	Structure of white, yellow and red phosphorus
	14.06.2022	Sant Kabir Jayanti
	15.06.2022	
	16.06.2022	
	17.06.2022	
	18.06.2022	
14	20.06.2022	Oxyacids of sulphur – structures and acidic strength
	21.06.2022	H ₂ O ₂ – structure, properties and uses
	22.06.2022	
	23.06.2022	
	24.06.2022	
	25.06.2022	
15	27.06.2022	Basic properties of halogen and interhalogen compounds
	28.06.2022	Hydro and oxyacids of chlorine – structure and comparison of acid strength
	29.06.2022	
	30.06.2022	
	01.07.2022	
	02.07.2022	
16	04.07.2022	Test-2 (Section C and D)
	05.07.2022	Problem Discussion
	06.07.2022	
	07.07.2022	
	08.07.2022	
	09.07.2022	
17	10.07.2022	Revision

Lesson Plan (2021-22)-Even Semester

Name of the Assistant Professor: Mr. Vipin

Class and Section: B.Sc.2nd (4th semester) NM and A&B

Subject: Physical Chemistry

Week	Date	Topics
1	21.03.2022	Basic introduction about the syllabus
	22.03.2022	Introduction of Thermodynamics
	23.03.2022	Shaheedi Diwas
	24.03.2022	
	25.03.2022	
	26.03.2022	
2	28.03.2022	Second law of thermodynamics
	29.03.2022	Need of 2 nd law, different statements of the 2 nd law
	30.03.2022	
	31.03.2022	
	01.04.2022	
	02.04.2022	
3	04.04.2022	Carnot's cycles and its efficiency, Carnot's theorem
	05.04.2022	Thermodynamics scale of temperature, Concept of entropy – entropy as a state function
	06.04.2022	
	07.04.2022	
	08.04.2022	
	09.04.2022	
4	11.04.2022	Entropy as a function of V & T, entropy as a function of P & T
	12.04.2022	Entropy change in physical change, entropy as a criteria of spontaneity and equilibrium
	13.04.2022	
	14.04.2022	Dr. B R Ambedkar Jayanti
	15.04.2022	
	16.04.2022	
5	18.04.2022	Entropy change in ideal gases and mixing of gases
	19.04.2022	Third law of thermodynamics: Nernst heat theorem
	20.04.2022	

	21.04.2022	
	22.04.2022	
	23.04.2022	
6	25.04.2022	Statement of concept of residual entropy, evaluation of absolute entropy from heat capacity data
	26.04.2022	Gibbs and Helmholtz functions; Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities
	27.04.2022	
	28.04.2022	
	29.04.2022	
	30.04.2022	
7	02.05.2022	Id-ul-Fitr
	03.05.2022	A & G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change
	04.05.2022	
	05.05.2022	
	06.05.2022	
	07.05.2022	
8	09.05.2022	Variation of G and A with P, V and T
	10.05.2022	Test-1 (Unit I and II)
	11.05.2022	
	12.05.2022	
	13.05.2022	
	14.05.2022	
9	16.05.2022	Electrolytic and Galvanic cells – reversible & Irreversible cells, conventional representation of electrochemical cells
	17.05.2022	EMF of cell and its measurement, Weston standard cell, activity and activity coefficients.
	18.05.2022	
	19.05.2022	
	20.05.2022	
	21.05.2022	
10	23.05.2022	Calculation of thermodynamic quantities of cell reaction (ΔG , ΔH & K)
	24.05.2022	Types of reversible electrodes – metal- metal ion gas electrode, metal – insoluble salt- anion and redox electrodes
	25.05.2022	
	26.05.2022	
	27.05.2022	

	28.05.2022	
11	30.05.2022	Electrode reactions, Nernst equations, derivation of cell EMF and single electrode potential
	31.05.2022	Standard Hydrogen electrode, reference electrodes, standard electrodes potential
	01.06.2022	
	02.06.2022	Maharana Pratap Jayanti
	03.06.2022	
	04.06.2022	
12	06.06.2022	Sign conventions, electrochemical series and its applications
	07.06.2022	Concentration cells with and without transference
	08.06.2022	
	09.06.2022	
	10.06.2022	
	11.06.2022	
13	13.06.2022	Liquid junction potential
	14.06.2022	Sant Kabir Jayanti
	15.06.2022	
	16.06.2022	
	17.06.2022	
	18.06.2022	
14	20.06.2022	Application of EMF measurement i.e. valency of ions
	21.06.2022	Solubility product activity coefficient
	22.06.2022	
	23.06.2022	
	24.06.2022	
	25.06.2022	
15	27.06.2022	Potentiometric titration (acid- base and redox)
	28.06.2022	Determination of pH using Hydrogen electrode,
	29.06.2022	
	30.06.2022	
	01.07.2022	
	02.07.2022	
16	04.07.2022	Quinhydrone electrode and glass electrode by potentiometric methods
	05.07.2022	Test-2 (Unit III & IV)
	06.07.2022	
	07.07.2022	
	08.07.2022	
	09.07.2022	
17	10.07.2022	Problem Discussion

Lesson Plan (2021-22)-Even Semester

Name of the Assistant Professor: Mr. Vipin

Class and Section: B.Sc.2rd (4th semester) Medical

Subject: Physical Chemistry

Week	Date	Topics
1	21.03.2022	
	22.03.2022	
	23.03.2022	Shaheedi Diwas
	24.03.2022	
	25.03.2022	Basic introduction about the syllabus
	26.03.2022	Introduction of Thermodynamics
2	28.03.2022	
	29.03.2022	
	30.03.2022	
	31.03.2022	
	01.04.2022	Second law of thermodynamics
	02.04.2022	Need of 2 nd law, different statements of the 2 nd law
3	04.04.2022	
	05.04.2022	
	06.04.2022	
	07.04.2022	
	08.04.2022	Carnot's cycles and its efficiency, Carnot's theorem
	09.04.2022	Thermodynamics scale of temperature, Concept of entropy – entropy as a state function
4	11.04.2022	
	12.04.2022	
	13.04.2022	
	14.04.2022	Dr. B R Ambedkar Jayanti
	15.04.2022	Entropy as a function of V & T, entropy as a function of P & T
	16.04.2022	Entropy change in physical change, entropy as a criteria of spontaneity and equilibrium
5	18.04.2022	
	19.04.2022	
	20.04.2022	

	21.04.2022	
	22.04.2022	Entropy change in ideal gases and mixing of gases
	23.04.2022	Third law of thermodynamics: Nernst heat theorem
6	25.04.2022	
	26.04.2022	
	27.04.2022	
	28.04.2022	
	29.04.2022	Statement of concept of residual entropy, evaluation of absolute entropy from heat capacity data
	30.04.2022	Gibbs and Helmholtz functions; Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities
7	02.05.2022	Id-ul-Fitr
	03.05.2022	
	04.05.2022	
	05.05.2022	
	06.05.2022	A & G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change
	07.05.2022	Variation of G and A with P, V and T
8	09.05.2022	
	10.05.2022	
	11.05.2022	
	12.05.2022	
	13.05.2022	Test-1 (Unit I and II)
	14.05.2022	Problem Discussion
9	16.05.2022	
	17.05.2022	
	18.05.2022	
	19.05.2022	
	20.05.2022	Electrolytic and Galvanic cells – reversible & Irreversible cells, conventional representation of electrochemical cells
	21.05.2022	EMF of cell and its measurement, Weston standard cell, activity and activity coefficients.
10	23.05.2022	
	24.05.2022	
	25.05.2022	
	26.05.2022	
	27.05.2022	Calculation of thermodynamic quantities of cell reaction (ΔG , ΔH & K)
	28.05.2022	Types of reversible electrodes – metal- metal ion gas electrode, metal –

		insoluble salt- anion and redox electrodes
11	30.05.2022	
	31.05.2022	
	01.06.2022	
	02.06.2022	Maharana Pratap Jayanti
	03.06.2022	Electrode reactions, Nernst equations, derivation of cell EMF and single electrode potential
	04.06.2022	Standard Hydrogen electrode, reference electrodes, standard electrodes potential
12	06.06.2022	
	07.06.2022	
	08.06.2022	
	09.06.2022	
	10.06.2022	Sign conventions, electrochemical series and its applications
	11.06.2022	Concentration cells with and without transference
13	13.06.2022	
	14.06.2022	Sant Kabir Jayanti
	15.06.2022	
	16.06.2022	
	17.06.2022	Liquid junction potential
	18.06.2022	Application of EMF measurement i.e. valency of ions
14	20.06.2022	
	21.06.2022	
	22.06.2022	
	23.06.2022	
	24.06.2022	Solubility product activity coefficient
	25.06.2022	Potentiometric titration (acid- base and redox)
15	27.06.2022	
	28.06.2022	
	29.06.2022	
	30.06.2022	
	01.07.2022	Determination of pH using Hydrogen electrode,
	02.07.2022	Quinhydrone electrode and glass electrode by potentiometric methods
16	04.07.2022	
	05.07.2022	
	06.07.2022	
	07.07.2022	
	08.07.2022	Test-2 (Unit III & IV)
	09.07.2022	Problem Discussion
17	10.07.2022	