Name of Assistant/Associate Professor: Reena Kumari ,Rajeev Kumar

Class and section: B.Sc III N.M & Med. . (Sem -6th))

Physical Chemistry - (From Jan 2024 to April 2024)

Chapte	er 1 Photochemistry	Dates
0	Interaction of radiation with matter, difference	Jan, Week3rd
	between thermal and	
0	photochemical processes. Laws of photochemistry:	Jan Week 3rd
0	Grotthus-Drapper law, StarkEinstein law (law of photochemical equivalence),	Jan , Week 4 th
0	Jablonski diagram depiciting various processes occurring in the excited state,	Jan, Week 4 th
0	qualitative description of fluorescence,	Feb, Week Ist
0	phosphorescence, quantum yield,	Feb Week Ist
0	phosphorescence, quantum yield,	
0	non-radiative processes (internal conversion, intersystem crossing),	Feb, Week 2 nd
0	photosensitized reactions-energy transfer processes (simple examples)	Feb, Week 2 nd
Chapt	ter 2 Solutions, Dilute Solutions and	
•	Colligative Properties	
0	Ideal and non-ideal solutions, methods of	Feb, Week 3rd
0	expressing concentrations of solutions,	Feb, Week 3rd
0	Dilute solutions, Raoult's law.	Feb, Week 4th
0	Colligative properties: (i) relative lowering of vapour pressure (ii) Elevation in boiling point	March, Week Ist
0	(iii)) depression in freezing point (iv) osmotic pressure.	March, Week Ist
0	Thermodynamic derivation of relation between amount of solute and elevation in boiling point and depression in freezing point	March,Week 2 nd
0	Applications in calculating molar masses of normal, dissociated and associated solutes in solution.	March, Week 2 nd
Chapt	ter 3 Phase Equillibrium	
0	Statement and meaning of the terms – phase,	April, Week 1rd
0	component and degree of freedom,	April, Week 1st
0	thermodynamic derivation of Gibbs phase rule,	April Week 2nd
0	phase equilibria of one component system – Example – water system	April, Week 2nd
0	Phase equilibria of two component systems solid- liquid equilibria,	
	simple eutectic Example Pb-Ag system,	April, Week 3rd

0	desilverisation of lead.	April, Week 3rd
0		
Chap	ter 3: Introduction to statistical mechanics	
0	Need for statistical thermodynamics,	April, Week 4th
0	thermodynamic probability, Maxwell Boltzmann distribution statistics, Born oppenheimer approximation,	April, Week 4th

Name of Assistasnt/Associate Professor: Anjali

Class &Section: B. Sc III, N.M. & Med., (Sem -6th)

Inorganic Chemistry: (From Jan 2024 to April 2024)

Chapter 1 Organometallic Chemistry	Dates
1.1 Definition 1.2 Nomenclature and classification of Organo metallic compounds	Jan , Week3rd
1.3 Preparation , properties and bonding of alkyls of lithium	Jan, Week 3rd
1.4 Preparation , properties and bonding of alkyls of Aluminium	Jan, Week 4th
1.5 Preparation, properties and bonding of alkyls of Mercury	Jan, Week 4th
1.6 Preparation, properties and bonding of alkyls of Sn 1.7 Nature of bonding in Metal Carbonyls	Feb ,Week Ist
1.8 A brief account of metal Ethylenic complexes 1.9 Mononuclear Carbonyls	Feb ,Week Ist
Chapter 2 Acid & Bases , HSAB Concept	
2.1 Arrhenius concept of Acid & Bases 2.2 Advantages & Limitations of Arrhenius concept	Feb, Week 2 nd
2.3 Bronsted Lowry concept of Acid and Bases 2.4 Lux - flood concept of Acid and Bases	Feb, Week 2nd
2.5 Solvent system concept of Acid and Bases 2.6 Lewis system concept of Acid and Bases	Feb,Week 3 rd
2.7 Relative strength of Acid and Bases 2.8 Concept of Hard and soft Acids and Bases	Feb,Week 3 rd
Problems from chapter 1	Feb, Week 4th
Problems from chapter 2 and test Problems from chapter 2	March,Week Ist
Test of chapter 2	March, Week Ist
Week 9 Chapter 3 Bio Inorganic Chemistry	March, Week 2nd
3.1 Essential and Trace elements in biological processes 3.2 Metallopophyrins with special reference to haemoglobin and myoglobin	March, Week 2nd
3.5 Biological role of alkali & alkalis earth metals lons	March, Week 3rd

with special reference to Ca2+	
3.6 Nitrogen Fixation Metalloproteins	March,Week 4th
,Problems of Chapter - 3	March, Week 4th
Assignment I	March, Week I st
Chapter -4Silicons & Phosphazenes	
4.1 Silicons as an examble of Inorganic polymers	April , Week Ist
4.2Silicons fluids & oils , siliconselastoma	April, Week 2 nd
4.3 Silicon Resins , Polysiloxane copolymers	April ,Week 2 nd
4.4 Introduction to Phosphazene0,s method of preparation of phosphazenes	April, Week 3 rd
4.5 Structure and bonding in Phosphazenes	April , Week 3 rd
4.6 Bonding in Triphosphazenes	April Week 3 rd
4.7 Uses of Phosphazenes	
Assignment - II	April , Week 3 rd

Name of Assistant/Associate Professor: Reena Kumari, Bhawna

Class and section: B.Sc III N.M & Med. (Sem -6th)

Organic Chemistry: Week (From Jan, 2024 to April, 2024)

Chapte	er 1 Organosulphur Compound	Dates
0	Nomenclature Structural feature, M.O.P	Jan , Week3rd
0	Chemical rxn of thiols, thioether, sulphonic acid,	Jan, Week 3rd
0	Sulphonamides &sulphaguanidine	Jan , Week 4th
0	Synthetic detergents ,alkyl & aryl sulphonates	Jan, Week 4th
Chapte	er 2: Heterocyclic compound	
0	Molecular orbital str ,Aromatic characterstics of pyrrole,furan	Feb, Week Ist
0	Aromatic characterstics of thiophene & pyridine	Feb, Week Ist
0	M.O.P ,& Chemical Rxn with mechanism of electrophilic substitution	
0	Mech. Of Nucleophilic substitution Reaction in Pyridine derivatives Comparison of basicity of pyridine piperidine & pyrrole	Feb, Week 2 nd
0	Introduction of condensed 5-6 membered heterocycles	Feb, Week 2 nd
0	Preparation & reaction of indole	Feb, Week 3rd
0	Rxn of quinolone & isoquinoline	Feb, Week 3rd
0	Fischer Indole synthesis & skraup synthesis	Feb, Week 4th
0	Bischler napieralski synthesis, Mech. of Electrophilic substitution of indole	March,Week Ist
0	Mech. Of electrophilic substitution Rxn. Of Quinoline & Isoquinoline	March, Week Ist
CHAPT	ER-3 Organic synthesis via enolates	
0	Acidity of hydrogen, alkylation of diethylmalonate &Ethyl acetoacetate	
0	Synthesis of Ethylacetoacetate, claisen condensation Keto-enol tautomerism of ethyl acetoacetate	March ,Week 2nd
0	Alkylation of 1-3 dithianes	March West and
0	Acylation of Enamines	March, Week 3rd
CHA	PTER-4 Amino Acids, proteins & Nucleic Acids	
0	Classification, structure & stereochemistry of amino acids, Acid-base behavior	March ,Week 4th
0	Isoelectric point & electrophoresis, Prp & reaction	March,Week 4 th

of Amino acids	
Structure & Nomenclature of peptides & proteins,	April, Week Ist
 Peptide structure determination ,End group analysis, selective Hydrolysis of peptides 	April , Week I st
 Classical peptide synthesis ,Solid phase peptide synthesis 	April , Week 2 nd
 Structure of peptides & proteins, levels of proteins structure 	April Week 2 nd
 Problem of chapter heterocyclic compounds 	April, Week 3rd
o Test of Chapter 2	
o Denaturation/Renaturation	
 nucleic acids introduction, constituents of nucleic acids 	April , Week 3 rd
 Ribonucleosides , ribonucleotides ,double helical structure of D.N.A 	April , Week 3 rd
Revision And Practical	April , Week 3rd

Name of Assistant/Associate Professor: Pardeep Agarwal i

Class and section: B.Sc II N.M & Med. Sem 4th (PHYSICAL CHEMISTRY)

Chemistry Lesson Plan: Week (From Jan 2024 to April 2024)

apt	er 1: Thermodynamics II	Dates
0	1.1 Introduction –Need for second Law of thermodynamics and	
	Statement	Jan, Week3rd
0	1.2 Carnot Cycle And its efficiency	lon W. I 2 I
0	1.3 Carnot Theorem	Jan, Week 3rd
0	1.4 Thermodynamics scale of temperature	Was
0	1.5 Entropy	Jan, Week 4th
0	1.6 Entropy Change in Reversible Processes	Jan , Week 4th
0	1.7 Entropy Change in irreversible Processes	Juli, Week 4
0	1.8 Clausius inequality	Feb, Week Ist
0	1.9 Entropy change of universe	reb, week i
0	1.10 Entropy change for ideal gas with change in P,V & T	Feb, Week Ist
0	Entropy Change during Physical changes	reb, weeki
0	1.11 Entropy Change on mixing of ideal gas	Feb, Week 2 nd
0	1.12 Physical Significance of Entropy	
0	1.13 Measure of Disorder	
apt	er 2:Electrchemistry	
0.	2.1 What is Electrochemical cell or Galvanic cell	Fals XX Lord
0	2.2 What is Electrolytic Cell	Feb, Week 2 nd
0	2.3 Representation of Electrochemical Cell	Feb, Week 3rd
0	2.4 Electrode Potential	
0	2.5 EMF of the Cell And its Measurement	Feb, Week 3rd
0	2.6 Standard cell	
0	2.7 Reversible and Irreversible Cell	Fob Week 4th
0	2.8 Reversible electrodes	Feb, Week 4 th
0	2.9 Relationship between Chemical and Electrical Energy	March, Week Ist
0	2.10 Calculation of Thermodynamics Quantity of the Cell reaction	
0	2.11 Standard Hydrogen Electrode and Measurement of	
	Electrode Potential	March W L.L.
0	2.12 Other Reference Electrode and Measurement of Electrode	March, Week Ist
	Potential	
0	Assignment-I	March, Week 2nd
0	2.13 Electrochemical Series	March West and
0	2.14 Application of Electrochemical Series	March, Week 2nd
0	2.15 Activity and Activity coefficient of the electrolyte	March Wast 2rd
0	2.16 Standard State	March, Week 3rd
0	2.17 Nernst Equation for EMF of Cell	March, Week 3rd
0	2.18 Nernst Equation for Electrode Potential	ivial Cit, week 5."
0	2.19 Calculation of Equilibrium Constant of Cell reaction	March, Week 4th

2.20 Polarization	
2.21 Decomposition Voltage/Potential Deposition	
2.22 Discharge of Potential	
2.23 Overvoltage or Over Potential	March ,Week 4th
2.24 Hydrogen Overvoltage	IVIai CIT , Week 4"
2.25 Anodic Overvoltage and Oxygen Overvoltage	April Week IN
2.26 Application of Overvoltage	April, Week Ist
Test	April, Week Ist
2.27 Concentration Cell	A
2.28 Types of Concentration Cell	April, Week 2 nd
Assignment-II	April , Week 2 nd
2.29 EMF of Concentration Cell	April , Week 3rd
2.30 Review of Various Types of Electrochemical Cells	April, Week 3rd
2.31 Liquid Junction Potential	April, Week 3rd
2.32 Determination of Activities and Activity Coefficient from	April , Week 3rd
EMF Measurements	
2.33 Application of EMF Measurement	

LESSON PLAN

Name of Assistant/Associate Professor: Anjali Sharma

Class and section: B.Sc II Med. & Non med. Sem 4th (INORGANIC CHEMISRY)

Chemistry Lesson Plan: 15 Week (From Jan 2024- April 2024)

Chapter 1: Chemistry of Lanthanides	Dates
• 1.1 Introduction	
1.2 Electronic structure	Jan, Week3rd
1.3 Physical properties of lanthanides	30 344415 1173 38311 1175 1 755 F415
• 1.4 oxidation states	lan Waak 2rd
1.5 magnetic properties	Jan, Week 3rd
1.6 ionic radii and lanthanide contraction	Jan, Week 4th
• 1.7 complex formation	3317, 77 3212.7
1.8 occurrence and isolation	Jan, Week 4th
1.9 lanthanide compounds	Jan, week 4
Chapter 2: Chemistry of Actinides	Feb, Week Ist
 2.1 General features and chemistry of actinides 	Feb, Week Ist
 2.2 chemistry of separation of Np, Pu and Am from U 	reb, weeki
 2.3 Comparison of properties of lanthanides and actinides 	Feb, Week 2 nd
and with transition elements	
problems from chapter 1 & 2	
test of chapter 2	Feb, Week 2nd
Chapter 3: Theory of qualitative and quantative inorganic analysis-1	
3.1 Introduction	Feb, Week 3rd
 3.2 Basic Principles of Inorganic qualitative analysis 	
	Feb, Week 3rd
 3.3 Chemistry of analysis of various acidic radicals 	
3.4 chemistry of identification of acidic radicals in typical	
combinations	
3.5 chemistry of interference of acid radicals including	Feb, Week 4 th
their removal in the analysis of basic radicals	reb, week 4
problems of chapter 3	March ,Week Ist
Chapter 4: Theory of quanlitative and quantative inorganic	
analysis - II	
3.1 systematic analysis of basic radicals	March Week Ist
3.2 chemistry of various reaction	Trial off Treek Ist
a 2.2 identification of entions of ground	
3.3 identification of cations of group II A and constation of	March, Week 2nd
 3.4identification of cations of group II A and separation of 	
group II B	
Assignment I	March, Week 2 nd

3.8 test of Ni ²⁺ in the presence of Co ²⁺	March, Week 4 th
3.8 test of Ni ²⁺ in the presence of Co ²⁺	
2.0 gravimetry of gravemetric analysis	
 3.9 gravimetry of gravemetric analysis 	March Week 4th
3.10 theory of precipitation	
3.11 factors affecting solubility of precipitates	April, Week Ist
3.12 particle size of the precipitates	April , Week Ist
3.13 formation of precipitates	
 3.14 desirable properties and contamination of 	April, Week 2nd
precipitates	
3.15 treatment of the precipitates	April, Week 2nd
3.16 fractional precipitation	
Problems from Chapter 3	April, Week 3rd
Test	April, Week 3rd

LESSON PLAN

Name of Assistant/Associate Professor: Reena Kumari

Class and section: B.Sc II Med. & Non med. Sem 4th (ORGANIC CHEMISRY)

Chemistry Lesson Plan: Week (From Jan 2024 - April 2024)

0	r 1: Infrared Absorption Spectroscopy	Dates
0	1.1 Molecular Vibration	
0	1.2 Hooke's Law	Jan, Week3rd
0	1.3 Selection Rule	
0	1.4 Intensity and Position of IR Bands	lon Wash 2-1
0	1.5 Measurement of IR Spectrum	Jan, Week 3rd
0	1.6 Fingerprint Reason	
0	1.7 Characteristics Absorption of Various Functional Groups	Jan, Week 4th
0	1.8 Interpretation of IR Spectra	Jan , Week 4th
0	1.9 Application of IR Spectroscopy	
Chapte	r 2: Amines	Feb, Week Ist
0	2.1 Structure of Amines	Feb. Week Ist
0	2.2 Nomenclature of Amines	TOD, WEEK I
0	2.3 Separation of Primary, Secondary and Tertiary Amines	Feb, Week 2 nd
0	2.4 Physical Properties	
0	2.5 Basic Character	Feb. Week 2nd
0	2.6 Factor effecting the Basic Character	Teb, Week 2
0	2.7 Preparation of Alkyl Amine	Feb , Week 3rd
0	2.8 Preparation of Aryl Amine	
0	2.9 Gabriel Phthalimide Reaction	Feb , Week 3rd
0	2.10 Hofmann Bromamide Reaction	
0	2.11 Electrophilic Substitution of Aryl Amine	Feb, Week 4th
0	2.12 Reaction of Amine with Nitrous Acid	
	Problems from Chapter 1 and 2	Feb, Week 4th
0	T 1 (C) 1 (1) (1) (1) (1)	
0	lest of Chapter 1 (Infrared Absorption Spectroscopy)	March, Week Ist
0	Test of Chapter 1 (Infrared Absorption Spectroscopy) r 3: Diazonium Salts	March, Week Ist
0		
o Chapte	r 3: Diazonium Salts	March,Week Ist March,Week Ist
○ Chapte	r 3: Diazonium Salts 3.1 Mechanism of Diazotization	March,Week Ist
Chapte	3.1 Mechanism of Diazotization 3.2 Structure of Benzene Diazonium Chloride 3.3 Various Reaction of Diazonium Salts	
Chapte	3.1 Mechanism of Diazotization 3.2 Structure of Benzene Diazonium Chloride 3.3 Various Reaction of Diazonium Salts 3.4 Reduction of Diazonium Salts to Hydrazine	March,Week Ist March,Week 2 nd
Chapte	3.1 Mechanism of Diazotization 3.2 Structure of Benzene Diazonium Chloride 3.3 Various Reaction of Diazonium Salts 3.4 Reduction of Diazonium Salts to Hydrazine 3.5 Coupling Reactions	March,Week Ist
Chapte	3.1 Mechanism of Diazotization 3.2 Structure of Benzene Diazonium Chloride 3.3 Various Reaction of Diazonium Salts 3.4 Reduction of Diazonium Salts to Hydrazine 3.5 Coupling Reactions 3.6 Synthesis Application of Diazonium Salts	March, Week Ist March, Week 2nd March, Week 2nd
Chapte	3.1 Mechanism of Diazotization 3.2 Structure of Benzene Diazonium Chloride 3.3 Various Reaction of Diazonium Salts 3.4 Reduction of Diazonium Salts to Hydrazine 3.5 Coupling Reactions 3.6 Synthesis Application of Diazonium Salts r 4: Nitro Compounds	March,Week Ist March,Week 2nd
Chapte	3.1 Mechanism of Diazotization 3.2 Structure of Benzene Diazonium Chloride 3.3 Various Reaction of Diazonium Salts 3.4 Reduction of Diazonium Salts to Hydrazine 3.5 Coupling Reactions 3.6 Synthesis Application of Diazonium Salts 7 4: Nitro Compounds 4.1 Preparation of Nitro Alkane	March, Week Ist March, Week 2 nd March, Week 2 nd
Chapte	3.1 Mechanism of Diazotization 3.2 Structure of Benzene Diazonium Chloride 3.3 Various Reaction of Diazonium Salts 3.4 Reduction of Diazonium Salts to Hydrazine 3.5 Coupling Reactions 3.6 Synthesis Application of Diazonium Salts 7 4: Nitro Compounds 4.1 Preparation of Nitro Alkane 4.2 Preparation of Nitro Arenes	March, Week Ist March, Week 2nd March, Week 2nd March, Week 3nd
Chapte	3.1 Mechanism of Diazotization 3.2 Structure of Benzene Diazonium Chloride 3.3 Various Reaction of Diazonium Salts 3.4 Reduction of Diazonium Salts to Hydrazine 3.5 Coupling Reactions 3.6 Synthesis Application of Diazonium Salts 7 4: Nitro Compounds 4.1 Preparation of Nitro Alkane	March, Week Ist March, Week 2 nd March, Week 2 nd

0	4.6 Problem of Nitro Compounds	
Chapte	er 5: Aldehyde and Ketone	
0	5.1 Nomenclature of Carbonyl Group	
0	5.2 Structure of Carbonyl Group	March Week 4th
0	5.3 Synthesis of Aldehyde and Ketone	April Week III
0	5.4 Synthesis of Aldehyde from Acid Chloride	April, Week Ist
0	5.5 Advantage of Control Oxidation of Alcohol	Charles and a second of the second
0	5.6 Physical Property	April, Week Ist
0	5.7 Comparison of Reactivity of Aldehyde and Ketone	
0	5.8 Mechanism of Nucleophilic Addition of Carbonyl Group	
0	5.9 Mechanism of Aldol Reaction	April Week 200
0	5.10 Mechanism of Perkin Reaction	April, Week 2nd
0	5.11 Mechanism of Knoevenagel Reaction	
0	5.12 Condensation with Ammonia and its Derivatives	April, Week 2nd
0	5.13 Waiting Reaction	and the state of t
0	5.14 Mannich Reaction	
0	5.15 Oxidation of Aldehyde	April, Week 3rd
0	5.16 Baeyer Villiger Oxidation	
0	5.17 Cannizzaro Reaction	
0	5.18 Clemmensen Reduction	April , Week 3rd
0	5.19 Wolf kishner Reduction	
0	5.20 LiAlH ₄ and NaBH ₄ Reduction	
0	Problem of Aldehyde & ketone	April, Week 3rd
0	Revision and Practical	April , Week 3rd

LESSON PLAN

Name of Assistant/ Associate Professor : PRADEEP AGARWAL

Class and section: B.Sc I Med. & Non Med.

Chemistry Lesson Plan: 18 Week From JAN 2024 to May 2024)

Chapter 1: Alkenes	
 1.1 Nomenclature of alkenes 1.2 mechanisms of dehydration of alcohol 	Jan, Week 3rd
 1.3 mechanisms of dehydrohalogenation of alkyl halides 1.4 saytzeff rule, Hoffmann elimination 	Jan, Week 3rd
 1.5 physical properties and relative stabilities of alkenes 1.6 chemical reactions of alkenes – mechanisms involved in hydrogenation 	Jan, Week 4th
1.7 electrophilic and free radical addition	Feb, Week 1st
• 1.10 oxymercuration reduction • 1.11 ozonolysis	Feb, Week 2nd
 1.12 hydration 1.13 hydroxylation and oxidation with KMnO₄ 	Feb,Week2nd
Chapter 2: Arenes and Aromaticity	
 2.1 Nomenclature of benzene derivatives : Aromatic nucleus and side chain 	Feb, Week 3rd
2.2 Aromaticity: Huckel rule	Feb, Week 3rd
 2.3 aromatic ions, annulenes upto 10 carbon atoms 2.4 aromatic, anti- aromatic and non – aromatic compounds 	Feb, Week 3rd
2.5 aromatic electrophilic substitution	Feb, Week 4th
 2.6 mechanism of nitration. Halogenationand sulphonation 	Feb, Week 4th
 2.7 Friedal – craft reaction 2.8 energy profile diagram 	Feb, Week 4 th
2.9 activating, deactivating substituents and orientations	Marchl, Week Ist
• problems of chapter 1& 2	March, Week 2nd
• test	March, Week 2nd
Chapter 3: Dienes and Alkynes	
 3.1 Nomenclature and classification of dienes 3.2 Structure of butadiene 	March Week 3rd
 3.3 chemical reactions – 1,2 &1,4 additions 3.4 Diels – alder reaction 	March Week 3rd
 3.5 nomenclature, structure and bonding in alkynes 3.6 methods of formation & chemical reaction of alkynes, acidity of alkynes 	March, Week 4th
 3.7 mechanism of electrophilic and nucleophilic addition reactons 3.8 hydroboration – oxidation of alkynes 	April Week Ist
problem of chapter 3	APRIL, Week Ist
Chapter 4: Alkyl and aryl halides	
 4.1 Nomenclature and classes of alkyl halides 4.2 methods of formation, chemical reactions 	April, Week 2 nd
 4.3 Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl 	Aprily, Week
halides • 4.4 S _N ¹ & S _N ² reactions with energy profile diagrams	2 nd
4.4 3N & 3N Teactions with energy prome diagrams 4.5 methods of formation & chemical reactions of aryl halides, 4.6	May, Week 2nd
addition elimination and the elimination addition mechanisms of nucleophilic aromatic	Iviay, vvcck Znd
substitutions reactions	
4.7 relative reactivities of alkyl halides vs allyl, vinyl and aryl halides	May, Week 3rd

Name of Assistant/Associate Professor: RAJIV ASIWAL

Class and section: B.Sc I Med & Non Med.

Mechanism of buffer action

Chemistry Lesson Plan: Week(From JAN 2024 to May 2024)

pte	r 1 KINETICS 1	
0	Rate of reaction, rate equation	Jan, Week3rd
0	Factor effecting the rate of reaction, order of reaction	Jan, Week 3rd
	Integrated rate equation of zero and first order reaction	Jan, Week 4th
Inte	egrated rate equation of second and third order reaction	Jan, Week 4th
0	Method of determination of order of reaction	Feb, Week Ist
pte	r 2 Kinetics	
0	Arrhenius equation and effect of temperature	Feb Week Ist
0	Simple collision theory of reaction rate, Bimolecular collision theory of reaction rate	Feb, Week 2 nd
0	Transition state theory of bimolecular reaction	Feb, Week 2 nd
0	Problem of chapter of 1 & 2	Feb, Week 2 nd
0	Assignment I	
0	Test of chapter 1	Feb, Week 3 rd
pte	r 3 Electrochemistry 1	
0	Electrolytic conduction and factor effecting	Feb, Week 3 rd
cific	conductance, equivalent conductance, molar conductance	Feb Week 4th
0	Relation between different conductance	March, Week Ist
0	Effect of concentration on various conductance	March, Week 2nd
0	Arrhenius theory of ionization, Ostwald dilution law	March, Week 2nd
0	Debye-Huckel -Onsager equation, transpot number	March, Week 3rd
10000		March, Week 3rd
50754		March, Week 3rd
		Water, Week 3rd
		April Week 1st
		April Week 1st
0	temperature	April, Week 2nd
0	Application of Kohlrausch law in calculation of weak	April, Week 3rd
0		
0	Determination of degree of dissociation	April, Week 4th
0	Determination of pH, Ka and pKa	May, Week 1st
0	Determination of solubility product and numerical based on it	May Week 2 nd
	Conductometric titration, Henderson-Hazelbalch equation, Buffer	May, Week 3rd
	o Interpretation of the presentation of the pr	Rate of reaction, rate equation Factor effecting the rate of reaction, order of reaction Integrated rate equation of zero and first order reaction Method of determination of order of reaction Method of determination of order of reaction Pressure a substituting a substitution

Name of Assistant/Associate Professor: PRADEEP

AGARWAL Class and section: B.Sc I

Chemistry Lesson Plan: Week (From JAN 2024 to May 2024)

0	er 1 Hydrogen –Bonding &Vander Waal's Forces Hydrogen Bonding –Definition	
0	Types of Hydrogen Bonding	JAN, Week3rd
0	Effect of Hydrogen Bonding on Properties of Substance	JAIV, WEEKSIG
	miconductors-Introduction	
	pes & Applications	JAN, Week 4th
	er 2: S-Block Elements	
0	Comparative study of the element including diagonal	
	Relationship	
0	Anomalous Behaviour of Li & Bi compared to other Elements in	FEB Week Ist
	Same Group	I L B Week I
0	Salient feature of hydrides, Oxides	
0	Salient Feature of Halide And Hydroxide	
0	Behaviour of Solution in liquid NH ₃	FEB, Week Ist
0	Solvation	FEB, Week 2nd
0	Complexation tendencies including their function in Bio system	
Chapte	er 3: Chemistry of Noble Gases	
0	Chemical properties of the noble gases	
0	Emphasis on their low chemical properties	FEB, Week 2 nd
0	Chemistry of xenon	FEB, Week 2nd
0	Structure &bonding of fluoride, oxides & oxyfluorides of xenon	
Chapte	er 4: p-Block Elements	191. 395
0	Electronic Configuration	FEB, Week 3rd
0	Atomic size & Ionic size	
0	Metallic Character	
0	Melting Point	
0	Ionization Energy	FEB, Week 3rd
0	Electron Affinity	
0	Electronegativity	
0	Inert Pair Effect	EED1 W1- 4th
0	Diagonal Relationship	FEBl, Week 4th
0	Test of Chapter 1 And 2	
0	Diborane	
0	Properties & Structure of Diborane	
0	Borazine & its structure	MARCH, Week Ist
0	Chemical properties of Borazine	and a state of the
0	Trihalides of Boron	MARCH Week 2 nd
	PERCENTENCE OF THE PROPERTY OF	

0	Relative Strength of Trihalides of Boron as Lewis Acid	
0	Structure of Aluminium (III) Chloride	
0	Catenation	JOSE DE REPROSE MANGELES DESERVICIONES DE L'ANGELES MANGELES DE L'ANGELES DE L'ANGE
0	Carbides	MARCH, Week 2 nd
0	Fluoro Carbons	
0	Silicates	MARCH Week 2nd
0	Types and Structure of Silicates	
0	Silicones –General methods of preparations	MARCH, Week 2nd
0	Properties & its uses	WARCH, WEEK ZHU
0	Oxides-structure of oxides of N & P	APRIL Week 1st
0	Oxoacids –Structure & relative acid Strength of Oxoacids of N & P	AI KIL WEEK I
0	Structure of white ,yellow & Red phosphorous	
0	Oxoacids of Sulphur	APRIL Week 2nd
0	Structure & Acid strength	AT KIL WEEK ZIIG
0	H_2O_2	APRIL, Week2nd
0	Properties and Uses	AFRIL, Weekziid
0	Basic Properties of Halogens	APRIL, Week 3rd
0	Interhalogen Compound	APRIL, Week 4th
0	Their Types and Structure	
0	Hydra and Oxy Acids of Chlorine	May, Week 1st
0	Structure and Acidic Strength	
0	Cationic Nature of Iodine	May, Week 2nd
0	Problems From S-block and P-block Elements	May, Week 3rd
0	Revision	