LESSON PLAN

Name of Assistant/Associate Professor: SEENU KUMARI

Class:B.A (2ndSem) Introduction Chemistry II Lesson Plan :Week (FromJAN 2025toApr2025)

Month	Day & Date	Торіс
Jan	03 Jan 25	Introduction of Renowned Indian Scientists
	Friday	
	04 Jan 25	Brief Biography of renowned Indian Scientist (Hargobind Khurana, Dr P.C. Ray)
	Saturday	
	10 Jan 25	Brief Biography of renowned Indian Scientist (Sir CV Raman, Dr APJ Abdul
	Friday	Kalam)
	11 Jan 25	CN Rao
	Saturday	
	17 Jan 25	Dr Vikram Sara Bhai
	Friday	
	18 Jan 25	Dr Homi Jahangir Bhaba
	Saturday	
	24 Jan 25	Dr JC Bose
	Friday	
	25 Jan 25	Dr SN Bose
	Saturday	
	31 Jan 25	Revision of Whole Chapter
	Friday	
Feb	01 Feb 25	Introduction of Metal and Non-Metal
	Saturday	
	07 Feb 25	Periodic table
	Friday	
ľ	08 Feb 25	Classification of Elements
	Saturday	
t	14 Feb 25	Physical and Chemical Aspects of metals and Non-Metals
	Friday	
F	15 Feb 25	Ore and Mineral of Irons
	Saturday	
	21 Feb 25	Ore and Mineral of Copper
	Friday	ore and winterar or copper
	22 Feb 25	Ore and Mineral of Aluminum & Alloys
	Saturday	ore and Mineral of Aluminum & Alloys
	28 Feb 25	Devialen
	a subscription of the second	Revision
	Friday	
ALC: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01 Mar 25	Introduction of Physical properties of Matter
and the second	Saturday	
and the second sec	07 Mar 25 Friday	Classification Matters
	08 Mar 25	Properties, Uses and Ideal Equations

	Saturday		
	21 Mar 25 Friday	Real Gas Equation Of Matter	
	22 Mar 25 Saturday	Important Compounds Like Baking Soda, Washing Soda	ntar medicin nets (as introdu
	28 Mar 25 Friday	Plaster of Paris, Gypsum, Glass	2017 (2017) 2018 (2017) (2017) (2017)
	29 Mar 25 Saturday	Revision	
Apr	04 Apr 25 Friday	Introduction of soil and Fertilizers	upadar etheriter a / data disconte
	05 Apr 25 Saturday	Green revolution	
	11 Apr 25 Friday	Soil: Types of soil and their components for fertility	
	12 Apr 25 Saturday	Grow Condition, pH	
	18 Apr 25 Friday	Irrigation, Bio Fertilizers	
	19 Apr 25 Saturday	Chemical fertilizers and their uses	
	25 Apr 25 Friday	Acid Rain	
	26 Apr 25 Saturday	Revision	

Jeeru Seenu Kumari

Seenu Kumari Extension Lect. Chemistry

LessonPlan

Name of Assistant/Associate Professor: SeenuKumari

Class:B.Sc (2ndSem) Physical science Chemistry Lesson Plan: FromJAN 2025toApr2025

		Circinistry Lesson Fidment of the Lesson Fidment
Ath	Date & Day	Topic Name
	1- 2 Jan	Introduction of Covalent Bond, VSEPR throry and hybridization with suitable examples of Linear, trigonal planar, square planar, tetrahedral, trigonal bipyramidal and octahedral
		arrangements. Moleculear orbital theory of homonuclear N_2 , O_2 and heteronuclear (CO & NO) diatomic moleculear orbital theory of homonuclear N_2 , O_2 and heteronuclear (CO & NO) diatomic
	15-16 Jan	molecules, dipole moment and percentage ionic enaity
	20-23 Jan	Introduction of Ionic solids Ionic structures (NaCl, CsCl, ZnS, CaF ₂) size effects, radius ratio rule and its limitation.
	27-30 Jan	Concept of Lattice energy, Born – Haber Cycle, Solvation energy and Solv
Feb	3-6 Feb	Introduction of Chemical Kinetics, Concept of Presentation. influencing the rate of reaction. Order and molecularity of a reaction. Integration rate expression for zero, first, Half-life period of a reaction, Arrhenius equation.
	10-13 Feb	Integration rate expression for zero, first, Hall-life period of a real termodynamic derivation,
	17-20 Feb	Introduction of Distribution Law, Nernst distribution law – its thermodynamic derivation, Nernst distribution law after association and dissociation of solute in one of the phases. Of distribution law.
	24-27 Feb	distribution law. Determination of degree of hydrolysis constant of aniline hydrochloride.
Mar	3-6 Mar	Introduction of Alkalnes and Cycloalkanes Nomenclature, Classification of carbon atoms in alkanes and it structure, Isomerism in alkanes, sources. Methods of formation: Wurtz reaction, Kolbe reaction, Corey – House reaction and decarboxylation of carboxylic acids. Physical properties, Mechanism of free radical halogenation of alkanes: reactivity and selectivity.
		radical halogenation of alkanes. Feactivity and screentry. Nomenclature of Cycloalkanes, Baeyer's strain theory and its limitations, theory of strain less rings.
	17-20 Mar	Introduction of Alkenes Nomenclature of alkenes and its structure. Methods of formation: dehydration of alcohols, dehydrohalogenation of alkyl halide, Hofmann elimination and their mechanism.
	24-27 Mar	The Saytzeff rule and relative stabilities of alkenes, Chemical reactions: electrophilic and free radical additions, addition of halogens, halogen acids, hydroboration- oxidation, oxymercuration –reduction, ozonolysis and hydration. Markownikoff's rule of addition.
Apr	1-3 Apr	Introduction of Hydrogen Bonding and Van der Waals forces Hydrogen Bonding – Definition, types, effects of hydrogen bonding on properties of substances, application.
	7-10 Apr	Brief discussion of various types of Van der Waals forces.
	14-17 Apr	Introduction to Metallic Bond and Semiconductors. Metallic bond – Qualitative idea of valence bond and Band theories of metallic bond (conductors, semiconductors, insulators).
	21-24 Apr	Semiconductors – Introduction, types and application.
	28-30 Apr	Revision.
A State State		1 1 W T W W W W W W W W W W W W W W W W

SeenuKumari Extension Lecturer Chemistry

Keen