

LESSON PLAN

Discipline / All Branches		Semester-1st	Name of the teaching faculty:- Sri Kishan Kumar Agrawal
Subject:- Applied Chemistry	Unit/Chapter	No. of days/per week- 04	Semester from date : 04.02.2025 to 17.05.2025 No. of weeks :- 14 (excluding puja vacation)
Week		Class day	Theory
1st	Unit-1	1st	Fundamental particles (electron, proton & neutron)
		2nd	Isotopes, isobars and isotones
		3rd	Rutherford's & Bohr's Atomic model, Bohr-Bury scheme
		4th	Aufbau's principle, Hund's rule, Electronic configuration
2nd	Unit-1	1st	Chemical Bonding : Definition
		2nd	Electrovalent, Covalent and Coordinate bond
		3rd	Formation of different Compounds
		4th	Questions discussion with doubt clearing
3rd	Unit-1	1st	Discussion on Atomic wt., Molecular wt., Equivalent wt.
		2nd	Molarity , Normality & Molality (with numericals)
		3rd	ppm, mass percentage, volume percentage and mole fraction

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		4th	Question answer discussion
4th	Unit-2	1st	Graphical presentation of water distribution on Earth (pie or bar diagram)
		2nd	Classification of soft and hard water on the basis of different types of test
		3rd	Promblems arises due to use of hard water and quantitative analysis of hardness of water
		4th	Water Softening Technique, Municipal water treatment
5th	Unit-3	1st	Discussion on Ores And Minerals(Fe, Al & Cu)
		2nd	Principle of metallurgy
		3rd	General methods of extraction of metal(Iron)
		4th	General methods of extraction of metal(Aluminium)
6th	Unit-3	1st	Definition and Types of alloys
		2nd	Composition and uses of Alloys
		3rd	Introduction of Polymer

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		4th	Preparation and application of thermosetting and thermoplastic plastics with examples, rubber and
7th	Unit-4	1st	Definition and classification of fuel
		2nd	Calorific value of fuel, Dulong's formula
		3rd	Composition and uses of different Fuels
		4th	Elementary idea about LPG, CNG and coal gas
8th	Unit-4	1st	Definition and Types of lubricant
		2nd	Lubrication Mechanisim
		3rd	Physical and chemical properties of lubricants
		4th	Problem discussion
9th	Unit-5	1st	Electronic Concept of oxidation, reduction and redox reactions
		2nd	Question practice
		3rd	Definition and types of Electrolytes

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		4th	Electrolysis (Principle & process) with example
10th	Unit-5	1st	Faraday's 1st and 2nd law of Electrolysis
		2nd	Simple Numerical Problems of Faradays law
		3rd	Industrial application of Electrolysis
		4th	Applications of redox reactions in electrochemical cells
11th	Unit-5	1st	Different types of cells
		2nd	Definition and Types of Corrosion
		3rd	H ₂ liberation and O ₂ absorption mechanism of electrochemical corrosion
		4th	Factors affecting rate of corrosion
12th	Unit-5	1st	Discussion on internal corrosion
		2nd	Preventive measures for internal corrosion
		3rd	Discussion on external corrosion

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		4th	Preventive measures for external corrosion
13th	Unit-5	1st	Introduction of organic inhibitors
		2nd	Simple Numerical Problems
		3rd	Assignment
		4th	Answer discussion
14th	All	1st	Doubt Clearing on Unit-1
		2nd	Doubt Clearing on Unit-2
		3rd	Doubt Clearing on Unit-3
		4th	Doubt Clearing on Unit-4