

**PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF
ENGINEERING & TECHNOLOGY, BARGARH**



LESSON PLAN
Session-2022-2023

Discipline: Elect/CSE/ Mett. Engg.

Semester: 2nd

Subject: Engg. Chemistry

Name of the Teaching Faculty: Dr. Biswajit Acharya

Subject: Engg. Chemistry No. of Days/per week class allotted 03

Semester From Date: 20/3/23 To Date: 15/04/23 No. of Weeks: 04


Week	Class Day	Theory / Practical Topics
1	01	Definition & Classification of fuel
	02	Calorific value & choice of a good fuel
	03	Composition & Uses of Diesel, Petrol & kerosene
2	04	Gaseous fuels; Water gas & Producer gas
	05	Elementary idea of LPG & CNG
	06	Definition of Polymer & monomers
3	07	Homo polymer, Copolymer & Degree of polymerization
	08	Thermosetting & Thermoplastic Polymer, PVC, Polythene & Bakelite
	09	Elastomer; Natural & Vulcanized Rubber
4	10	Pesticides; Insecticides with Example
	11	Herbicides, fungicides with Example
	12	Definition, Example & Uses of Bio-fertilizers


Signature of the Faculty

Subject: Engg. Chemistry No. of Days/per week class allotted 03

Semester From Date: 16/04/23 To Date: 20/05/23 No. of Weeks: 05


Week	Class Day	Theory / Practical Topics
5	13	Oxidation; Calcination & Roasting
	14	Reduction; Smelting and gangue / Example of flux, slag
	15	Refining of Metal (Electrorefining, Distillation)
6	16	Definition of Alloy & its types
	17	Ferro, Non-ferro & Amalgam
	18	Composition & uses of Brass, Bronze, Alnico, Duralumin
7	19	Definition of Saturated & Unsaturated Hydrocarbons with example
	20	Huckel's Rule; Aliphatic & Aromatic Hydrocarbon
	21	Difference between Aliphatic & Aromatic Hydrocarbon
8	22	IUPAC System & Nomenclature of Organic Compound
	23	Alkane & Alkene with Example
	24	Alkyl & Alkyl Halides with Example


Signature of the Faculty

Subject: Engg. Chemistry No. of Days/per week class allotted 03

Semester From Date: 21/05/23 To Date: 24/06/23 No. of Weeks: 04

Week	Class Day	Theory / Practical Topics
9	25	Alcohols with Example & Bond Line notation
	26	Use of Aromatic Compounds; Benzene, Toluene
	27	DHE, phenol & Napthalene
10	28	Anthracene & Benzoic acid
	29	Sources of water; Soft & Hard Water
	30	Hardness of water & its types
11	31	Removal of hardness; Cold lime - Soda process
	32	Removal of hardness; Hot Lime - Soda process
	33	Advantages of Hot process over Cold process
12	34	Lubricants & its types (Lubricants Solid, Liquid & Semi-Solid)
	35	Examples of various types lubricants
	36	Uses of Lubricants; Graphite, Oils, Grease


Signature of the Faculty