PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH

PROGRESS REGISTER

Session-2022-2023

Discipline: Civil & Mechanical Engg.

Semester: 1st Subject: Engg. Chemistry

Name of the Teaching Faculty: Dr. Seikh Abed Hussain

Subject: Engg. Chemistry

No. of Days/per week class allotted: 04

Semester From Date :26-10-2022 To Date :20-02-2023

No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
26-10-22	Fundamental Particles: electron, proton, neutron	Fundamental Particles: electron, proton, neutron	Fundamental Particles: electron, proton, neutron	
27-10-23	Rutherford Atomic Model	Rutherford Atomic Model	Rutherford Atomic Model	
29-10-23	Atomic mass & number	Atomic mass & number	Atomic mass & number	
31-10-23	Isotopes, Isobars & isotones	Isotopes, Isobars & isotones	Isotopes, Isobars & isotones	
01-11-22	Bhor's Atomic Model	Bhor's Atomic Model	Bhor's Atomic Model	
03-11-22	Bohr-Bury Scheme	Bohr-Bury Scheme	Bohr-Bury Scheme	
05-11-22	Autbasis Principle, Hunds Rule	Autbasis Principle, Hunds Rule	Autbasis Principle, Hunds Rule	
07-11-22	Electronic configuration	Electronic configuration	Electronic configuration	
10-11-22	Electronic configuration	Electronic configuration	Electronic configuration	
12-11-22	Types of chemical bonds & their definition	Types of chemical bonds & their definition	Types of chemical bonds & their definition	
14-11-22	Electrovalent bond with Example- Nacl, $MgCl_2$	Electrovalent bond with Example- Nacl, $MgCl_2$	Electrovalent bond with Example- Nacl, $MgCl_2$	
15-11-22	Covalent bond, Example- H_2, Cl_2, O_2, N_2	Covalent bond, Example- H_2, Cl_2, O_2, N_2	Covalent bond, Example- H_2, Cl_2, O_2, N_2	
17-11-22	Covalent bond: Example- H_2O, CH_4, NH_3	Covalent bond: Example- H_2O, CH_4, NH_3	Covalent bond: Example- H_2O, CH_4, NH_3	
21-11-22	Co-ordinate bond: Example- NH_4^+, SO_2	Co-ordinate bond: Example- NH_4^+, SO_2	Co-ordinate bond: Example- NH_4^+, SO_2	
22-11-22	Definition of Salts & its types	Definition of Salts & its types	Definition of Salts & its types	

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24-11-22	Normal, Acidic salts with example	Normal, Acidic salts with example	Normal, Acidic salts with example	
25/11/22	Basic salt with example	Basic salt with example	Basic salt with example	
26-11-22	Double salt with example	Double salt with example	Double salt with example	
28/11-22	Complex & Mixed salts with example	Complex & Mixed salts with example	Complex & Mixed salts with example	
29-11-22	Atomic weight and its determination	Atomic weight and its determination	Atomic weight and its determination	
30-11-22	Molecular weight and its determination with example	Molecular weight and its determination with example	Molecular weight and its determination with example	
01-12-22	Equivalent weight definition and its determination	Equivalent weight definition and its determination	Equivalent weight definition and its determination	
02-12-22	Determination of Atomic weight, Molecular weight of Acid, Base & Salts	Determination of Atomic weight, Molecular weight of Acid, Base & Salts	Determination of Atomic weight, Molecular weight of Acid, Base & Salts	
05-12-22	Equivalent weight of Acid, Base & Salts	Equivalent weight of Acid, Base & Salts	Equivalent weight of Acid, Base & Salts	
7-12-22	Expression of Concn : Normality with example	Expression of Concn : Normality with example	Expression of Concn : Normality with example	
8-12-22	Expression of Concn : Molarity with example	Expression of Concn : Molarity with example	Expression of Concn : Molarity with example	
10-12-22	Expression of Concn : Molarity with example	Expression of Concn : Molarity with example	Expression of Concn : Molarity with example	
12-12-22	Definition of PH, its numerical & application	Definition of PH, its numerical & application	Definition of PH, its numerical & application	
13-12-22	Electrolysis, strong & weak Electrolysis	Electrolysis, strong & weak Electrolysis	Electrolysis, strong & weak Electrolysis	
14-12-22	Faraday's 1st law of Electrolysis with example.	Faraday's 1st law of Electrolysis with example.	Faraday's 1st law of Electrolysis with example.	
15-12-22	Faraday's 2nd law of Electrolysis with example. Electroplating	Faraday's 2nd law of Electrolysis with example. Electroplating	Faraday's 2nd law of Electrolysis with example. Electroplating	

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16-12-22	Defination & types of corrosion	Defination & types of corrosion	Defination & types of corrosion	
17-22-22	Rusting & Protection	Rusting & Protection	Rusting & Protection	
19-22-22	Alloy, Galvanization	Alloy, Galvanization	Alloy, Galvanization	
20-12-22	Defination of Mineral, ore & gauge	Defination of Mineral, ore & gauge	Defination of Mineral, ore & gauge	
21-12-22	Dressing & Conc^n of ore	Dressing & Conc^n of ore	Dressing & Conc^n of ore	
22-12-22	Defination & classification of fuel.	Defination & classification of fuel.	Defination & classification of fuel.	
02-01-23	Calorific value & choice of a good fuel	Calorific value & choice of a good fuel	Calorific value & choice of a good fuel	
04-1-23	Composition & uses of Diesel, Petrol & Kerosene	Composition & uses of Diesel, Petrol & Kerosene	Composition & uses of Diesel, Petrol & Kerosene	
5-01-23	Gaseous Fuels, water gas & Producer gas	Gaseous Fuels, water gas & Producer gas	Gaseous Fuels, water gas & Producer gas	
10-1-23	Elementary idea of LPG & CNG	Elementary idea of LPG & CNG	Elementary idea of LPG & CNG	
12-01-23	Defination of Polymer & Monomer	Defination of Polymer & Monomer	Defination of Polymer & Monomer	
19-1-23	Homo polymer, Copolymer & Degree of Polymerization	Homo polymer, Copolymer & Degree of Polymerization	Homo polymer, Copolymer & Degree of Polymerization	
20-1-23	Thermosetting & Thermoplastic Polymer, PVC, Polythene & Bakelite	Thermosetting & Thermoplastic Polymer, PVC, Polythene & Bakelite	Thermosetting & Thermoplastic Polymer, PVC, Polythene & Bakelite	
25-1-23	Eastover, Natural & Vulcanised Rubber	Eastover, Natural & Vulcanised Rubber	Eastover, Natural & Vulcanised Rubber	
28-1-23	Hardness of water & its types	Hardness of water & its types	Hardness of water & its types	

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30-1-23	Removal of Hardness, Cold lime-soda process	Removal of Hardness, Cold lime-soda process	Removal of Hardness, Cold lime-soda process	
31-01-23	Removal of Hardness, Hot lime-soda process	Removal of Hardness, Hot lime-soda process	Removal of Hardness, Hot lime-soda process	
04-02-23	Advantages of Hot Process over cold process	Advantages of Hot Process over cold process	Advantages of Hot Process over cold process	
06-02-23	Lubricants & its types (solid, liquid & semi solid)	Lubricants & its types (solid, liquid & semi solid)	Lubricants & its types (solid, liquid & semi solid)	
07-02-23	Examples of various types lubricants	Examples of various types lubricants	Examples of various types lubricants	
09-2-23	Uses of Lubricants, Graphics, Oils, Grease	Uses of Lubricants, Graphics, Oils, Grease	Uses of Lubricants, Graphics, Oils, Grease	
11-2-23	Difference between Aliphatic & Aromatic Hydrocarbon	Difference between Aliphatic & Aromatic Hydrocarbon	Difference between Aliphatic & Aromatic Hydrocarbon	
13-2-23	IUPAC system & Nomenclature of Organic compound	IUPAC system & Nomenclature of Organic compound	IUPAC system & Nomenclature of Organic compound	
14-2-23	Alkenes & Alkyl with example	Alkenes & Alkyl with example	Alkenes & Alkyl with example	
16-2-23	Alkynes & Alkyl Halides with example	Alkynes & Alkyl Halides with example	Alkynes & Alkyl Halides with example	
17-2-23	Ferro, Nor-Ferro & Amalgam	Ferro, Nor-Ferro & Amalgam	Ferro, Nor-Ferro & Amalgam	
18-2-23	Composition & used of Brass, Bronze, Alnico, Duralumin	Composition & used of Brass, Bronze, Alnico, Duralumin	Composition & used of Brass, Bronze, Alnico, Duralumin	
19-2-23	Defination of saturated & unsaturated Hydrocarbons with example	Defination of saturated & unsaturated Hydrocarbons with example	Defination of saturated & unsaturated Hydrocarbons with example	
20-2-23	Hackle's Rule, Aliphatic and Aromatic Hydrocarbon	Hackle's Rule, Aliphatic and Aromatic Hydrocarbon	Hackle's Rule, Aliphatic and Aromatic Hydrocarbon	