
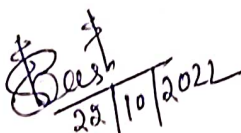


LESSON PLAN

Discipline- Civil/Mechanical	1 st Semester	Name of the Teaching Faculty- Ms. Adyasha Pradhan (PTGF)		
Subject- Engineering Chemistry Subject Code- TH2(b)	No. of days/week class allotted-02	Semester From Date: 25/10/2022 To Date: 31/01/2023 Number of weeks- 15		
MONTH	WEEK	NO. OF PERIODS AVAILABLE	CLASS DAY	THEORY TOPICS TO BE COVERED
OCTOBER	1 st	01	26/10/2022	ORGANIC CHEMISTRY Saturated and Unsaturated hydrocarbons. Aliphatic and Aromatic hydrocarbons
	2 nd	01	31/10/2022	Huckel's rule of Aromaticity. Difference between aliphatic and aromatic hydrocarbons.
NOVEMBER	3 rd	01	2/11/2022	General idea about alkane , alkene and alkyne.
	4 th	02	7/11/2022	Rules for IUPAC system of nomenclature.
			9/11/2022	Nomenclature of alkane , alkene , alkyne ,alkyl halide ,alcohol with bond line notation.
	5 th	01	14/11/2022	Uses of some aromatic compounds(Benzene,phenol,BHC, Naphthalene, Anthracene and Benzoic Acid)
	6 th	02	21/11/2022	MONTHLY TEST-I
			23/11/2022	WATER TREATMENT Soft water and Hard water .Types of Hardness-Temporary & Permanent Hardness.
	7 th	02	28/11/2022	RESULT & DISCUSSION Hot soda lime process –Principle, Process and Advantages
			30/11/2022	Cold soda lime process-Principle , Process & Advantages. Advantages of Hot Soda lime process over Cold Soda lime process.
	8 th	02	5/12/2022	Organic Ion exchange method with Regeneration.
DECEMBER	9 th	02	7/12/2022	MONTHLY TEST-II
			12/12/2022	LUBRICANTS Definition of lubricants. Types of lubricants –solid, liquid and semi-solid with example & specific uses. Purpose of Lubrication.
			14/12/2022	RESULT & DISCUSSION FUEL Definition , Classification of Fuel .Caloric value of fuel and choice of

JANUARY				a good fuel.
				INTERNAL EXAMINATION
	10 th	02	19/12/2022	Composition and uses of liquid – (Diesel, Petrol, Kerosene)
			21/12/2022	Gaseous fuels-(Producer gas and Water Gas).
	11 th	02	02/01/2023	Elementary idea of LPG ,CNG ,Coal gas.
			04/01/2023	RESULT OF INTERNAL EXAMINATION
	12 th	02	09/01/2023	POLYMER Definition of monomer ,polymer , homo-polymer and co-polymer .Degree of polymerization
			11/01/2023	Difference Between Thermosetting and Thermoplastic polymers. Composition and uses of a Polythene ,PVC and Bakelite .
	13 th	02	16/01/2023	Monthly Test-III
			18/01/2023	Definition of Elastomer ,Drawbacks of Natural Rubber. Vulcanization of Rubber. Advantages of Vulcanized Rubber over Raw Rubber
	14 th	01	25/01/2023	RESULT & DISCUSSION CHEMICALS IN AGRICULTURE Pesticides , Insecticides ,Herbicides ,fungicides. Bio-fertilizers-Definition, uses and Examples.
	15 th	01	30/01/2023	REVISION PREVIOUS YEAR QUESTION & ANSWERS.


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LESSON PLAN

Discipline: Metallurgy			Semester: 1 st semester	Name of the Teaching Faculty: Ms. Adyasha Pradhan (PTGF)
Subject: Engineering Chemistry Sub No: Th.2b			No of days /week class allotted:02	Semester from Date:25/10/2022 to 31/01/2023 No of weeks:15
Month	Week	No of periods available	Class Day	Theory topics to be covered
OCTOBER	1 st	02	27.10.2022	ORGANIC CHEMISTRY Saturated and Unsaturated hydrocarbons. Aliphatic and Aromatic hydrocarbons
			29.10.2022	Huckel's rule of Aromaticity. Difference between aliphatic and aromatic hydrocarbons.
NOVEMBER	2 nd	02	03.11.2022	General idea about alkane , alkene and alkyne.
			05.11.2022	Rules for IUPAC system of nomenclature.
	3 rd	02	10.11.2022	Nomenclature of alkane , alkene , alkyne ,alkyl halide ,alcohol with bond line notation.
			12.11.2022	Uses of some aromatic compounds(Benzene ,phenol ,BHC ,Naphthalene, Anthracene and Benzoic Acid)
	4 th	02	17.11.2022	MONTHLY TEST-I
			19.11.2022	WATER TREATMENT Soft water and Hard water .Types of Hardness- Temporary & Permanent Hardness.
	5 th	02	24.11.2022	RESULT & DISCUSSION Hot soda lime process-(Principle ,Process & advantages)
			26.11.2022	Cold soda lime process-(Principle ,Process & advantages) Advantages of Hot Soda lime process over Cold Soda lime process.
DECEMBER	6 th	02	01.12.2022	Organic Ion exchange method with Regeneration
			03.12.2022	MONTHLY TEST-II
	7 th	02	08.12.2022	LUBRICANTS Definition of lubricants. Types of lubricants –solid, liquid and semi-solid with example.
			10.12.2022	Specific uses of lubricants. Purpose of Lubrication.
	8 th	02	15.12.2022	RESULT & DISCUSSION
			17.12.2022	FUEL Definition ,Classification of Fuels, Caloric value of fuel and choice of a good fuel.
	9 th	02		INTERNAL EXAMINATION
			22.12.2022	Composition and uses of liquid –(Diesel ,Petrol ,Kerosene)and gaseous fuels-(Producer Gas & Water Gas).
			24.12.2022	Elementary idea of LPG,CNG,Coal gas.

JANUARY	10 th	02	05.01.2023	RESULT OF INTERNAL EXAMINATION
			07.01.2023	POLYMER Definition of monomer ,polymer , homo-polymer and co-polymer .Degree of polymerization
	11 th	02	12.01.2023	Difference Between Thermosetting and Thermoplastic polymers. Composition and uses of a polythene ,PVC and Bakelite .
	12 th	02	19.01.2023	Monthly Test-III Definition of Elastomer , Drawbacks of Natural Rubber. Vulcanization of Rubber. Advantages of Vulcanized Rubber over Raw Rubber.
			21.01.2023	RESULT & DISCUSSION CHEMICALS IN AGRICULTURE Pesticides , Insecticides ,Herbicides ,fungicides. Bio-fertilizers, uses and examples.
	13 th	02	28.01.2023 31.01.2023	REVISION PREVIOUS YEAR QUESTION & ANSWERS.

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LESSON PLAN

Discipline- METALLURGY	1 st Semester	Name of the Teaching Faculty- Ms. Adyasha Pradhan (PTGF)		
Subject- Engg. Chemistry Subject Code- TH2(b)	No. of days/week class allotted-02	Semester From Date: 25/10/2022 To Date: 31/01/2023 Number of weeks- 15		
MONTH	WEEK	NO. OF PERIODS AVAILABLE	CLASS DAY	PRACTICAL TOPICS TO BE COVERED
OCTOBER	1 st	01	28/10/2022	Preparation and study of physical and chemical properties of CO ₂ gas.
NOVEMBER	2 nd	01	04/11/2022	Crystallization of CuSO ₄ from copper carbonate.
	3 rd	02	07/11/2022	Preparation and study of physical and chemical properties of NH ₃ gas
			11/11/2022	Alkalimetry titration.
	4 th	02	14/11/2022	Acidimetry Titration .
			18/11/2022	Test for Sulphide S ²⁻ acid radical.
	5 th	02	21/11/2022	Test for carbonateCO ₃ ²⁻ acid radical.
			25/11/2022	Test for nitrateNO ₃ ⁻ acid radical .
	6 th	01	28/11/2022	Test for chloride Cl ⁻ acid radical .
DECEMBER	7 th	01	02/12/2022	Test for ammonium NH ₄ ⁺ basic radical.
	8 th	02	05/12/2022	Test for sulphateSO ₄ ²⁻ acid radical .
			09/12/2022	Test for magnesium basic radical.
	9 th	02	12/12/2022	Test For zinc basic radical.
			16/12/2022	Test for calcium basic radical.
	10 th	02	19/12/2022	Test for aluminium basic radical.
			23/12/2022	Test for potassium basic radical.
	JANUARY	11 th	02	02/01/2023 06/01/2023
12 th		02	09/01/2023	Test for unknown acid radicals.
			13/01/2023	LAB PRACTICE
13 th		02	16/01/2023	Test for unknown salt.
			20/01/2023	LAB PRACTICE
14 th		02	23/01/2023	LAB PRACTICE
			27/01/2023	LAB PRACTICE
15 th		01	30/01/2023	LAB PRACTICE

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LESSON PLAN

Discipline: Civil/Mechanical			Semester: 1st semester	Name of the Teaching Faculty: Ms. Adyasha Pradhan (PTGF)
Subject: Engineering Chemistry - Sub No: Th.2b			No of days /week class allotted: 02	Semester from Date: 25/10/2022 to 31/01/2023 No of weeks: 15
Month	Week	No of periods available	Class Day	Practical topics to be covered
OCTOBER	1 st	02	25.10.2022	Preparation and study of physical and chemical properties of CO ₂ gas.
			27.10.2022	Preparation and study of physical and chemical properties of CO ₂ gas.
NOVEMBER	2 nd	02	01.11.2022	Crystallization of CuSO ₄ from copper carbonate.
			03.11.2022	Crystallization of CuSO ₄ from copper carbonate.
	3 rd	02	08.11.2022	Alkalimetry titration.
			10.11.2022	Alkalimetry titration.
	4 th	02	15.11.2022	Test for Sulphide S ²⁻ acid radical.
			17.11.2022	Test for Sulphide S ²⁻ acid radical.
	5 th	02	22.11.2022	Test for nitrateNO ₃ ⁻ acid radical .
24.11.2022			Test for nitrateNO ₃ ⁻ acid radical .	
DECEMBER	6 th	01	29.11.2022	Test for ammonium NH ₄ ⁺ basic radical.
	7 th	01	01.12.2022	Test for ammonium NH ₄ ⁺ basic radical.
	8 th	02	06.12.2022	Test for magnesium basic radical.
			08.12.2022	Test for magnesium basic radical.
	9 th	02	13.12.2022	Test for calcium basic radical.
			15.12.2022	Test for calcium basic radical.
	10 th	02	20.12.2022	Test for potassium basic radical.
22.12.2022			Test for potassium basic radical.	
JANUARY	11 th	02	03.01.2023	Test for unknown basic radicals.
			05.01.2023	Test for unknown basic radicals.
	12 th	02	10.01.2023	LAB PRACTICE
			12.01.2023	LAB PRACTICE
	13 th	02	17.01.2023	LAB PRACTICE
			19.01.2023	LAB PRACTICE
	14 th	01	24.01.2023	LAB PRACTICE
15 th	01	31.01.2023	LAB PRACTICE	

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