RAJARAMBAPU COLLEGE OF SUGAR TECHNOLOGY, ISLAMPUR

UNIT PLAN 2021 -2022

Sub: Applied Chemistry Paper No. I Section: Sugar Chemistry Class: B.Sc. I

Name of the Teacher: Miss. N. M. Patil

Sr. No.	Working Week	Unit to be taught	No. of periods	Teaching method, Aids used	Remarks
1	01/10/2021 To 09/10/2021	Admission Work		E. Lautian	
2	11/10/2021 To 18/10/2021	 Introduction Sugar Chemistry – Constitution of sugar ,natural polymers of sugar Types of sugar monosaccharides- Glucose & Fructoe 	. 03	Explanation using PPT	
3	25/10/2021 To 30/10/2021	 Forms of sugar & its use. Health effects of Sugar-Blood glucose level ,Obesity and Diabetics. Tooth decay, Hyper activity-Measurements 	03	Explanation using PPT	
4	01/11/2021 To 06/11/2021	 Introduction and classification of Carbohydrates with suitable examples. Reactions of Monosaccharides such as, Mutarotation 	02	Explanation using PPT	
5	08/11/2021 To 13/11/2021	Reactions of	03	Explanatio using PPT	
6	15/11/202		03	Explanation	on

	To 20/11/2021	 Class Test Disaccharides and Polysaccharides Structure and properties of Sucrose, maltose. 		using PPT	*
7	22/11/2021 To 27/11/2021	Structure and properties of Lactose, Starch and Cellulose.	03	Explanation using PPT	
8	29/11/2021 To 04/12/2021	Physical and Chemical Properties of Sugar.Sucrose derivatives.	03	Explanation using PPT	
9	06/12/2021 To 11/12/2021	 Structure of Sucrose Molecule and decomposition of sucrose. 	03	Explanation using PPT	
10	13/12/2021 To 18/12/2021	 Chemical Properties of sucrose. sucrose molecule, Crystalline sucrose, amorphous sucrose and aqueous sucrose. 	02	Explanation using PPT	90.4
11	20/12/2021 To 25/12/2021	 Solutions and some important terms of solution – Solubility, density, surface tension, boiling point, freezing point, rotation of polarized light. Class Test-2 	02	Explanation using PPT	4
12	27/12/2021 To 01/01/2022	 Unit Test – I Paper Checking 			
13	03/01/2022 To 08/01/2022	 Physical Properties of reducing sugar (Dextro and Leavo rotatory) Explanation of Solubility, density and optical rotation. 	02	Explanation using PPT	
14	10/01/2022 To	Chemical properties of	02	Explanation using PPT	

	15/01/2022	reducing sugar with Organic reagents like Acetone, Benzoic acid, carbonate and acetate. • Chemical properties of reducing sugar with Inorganic reagents like sodium phosphate ,Chloride salt, calcium levitate.			
15	17/01/2022 To 22/01/2022	 Decomposition reaction with alkaline solution and acid solution. Oscillation reaction with iodine. Revision of Syllabus and student doubts about syllabus and solving of previous question papers. 	02	Explanation using PPT	

Date: 1/10/2021

Signature of the Teacher

RAJARAMBAPU COLLEGE OF SUGAR TECHNOLOGY, ISLAMPUR

UNIT PLAN 2021 -2022

Sub: Equipment Design (Clarification House) Paper No. I

Class: B. Sc. II (Sugar Technology) Sem- III

Name of the Teacher: Mr. R.M. Pawar

Sr. No.	Working Week	Unit to be taught	No. of periods	Teaching method, Aids used	Remarks
1	01/10/2021 To 09/10/2021	Admission Work		Alds used	
2	11/10/2021 To 18/10/2021	 Syllabus Introduction Metals, their properties and uses in sugar industries. 	03	Explanation	
3	25/10/2021 To 30/10/2021	 Different type of metals used in sugar industries Metal properties related to engineering/mechanical properties of metal. 	03	Explanation	
4	01/11/2021 To 06/11/2021	 Juice heaters Heat transfer coefficient Heating surface. 	03	Explanation using PPT & solving problem	
5	08/11/2021 To 13/11/2021	Sizing of heaterTube size and number of tubes	03	Explanation using PPT & solving problem	
6	15/11/2021 To 20/11/2021	No of passes and juice inlet/outlet sizesConstruction of juice heater.	03	Explanation using PPT & solving problem	
7	22/11/2021 To 27/11/2021	 Juice Sulphitor Factors used to design continuous juice sulphitor or reaction tank. 	03	Explanation using PPT & solving problem	
8	29/11/2021 To 04/12/2021	 Lime proportioning device (lime dosing) SO₂ gas distribution (SO₂ gas dosing) 	03	Explanation using PPT	
9	06/12/2021 To 11/12/2021	 Mechanical stirrer for mixing of reagent Design of tank with respect of diameter 	03	Explanation using PPT	-
10	13/12/2021 To 18/12/2021	 Automation for pH control Construction of continuous juice sulphitor 		Explanation using PPT	

11	20/12/2021 To 25/12/2021	 Sulphur Burners/ Furnace Combustion process of sulphur Quantity of air required. Capacity of sulphur burner. 	03	Explanation using PPT
12	27/12/2021 To 01/01/2022	Unit Test		
13	03/01/2022 To 08/01/2022	Construction of sulphur burnerJuice Clarifier	03	Explanation using PPT
14	10/01/2022 To 15/01/2022	 Type of clarifier Functional theory of operation. Retention Time 	03	Explanation using PPT
15	17/01/2022 To 22/01/2022	 Flash Tank. Capacity of Clarifier Construction of clarifier Revision & students doubts & Solving old question paper 	03	Explanation using PPT & solving problem

Date: 1/16/2021

Signature of the Teacher