

14. Lesson Plan :**LESSON PLAN: ENGINEERING CHEMISTRY LAB**

Discipline: MECHANICAL ENGG.	Semester : 2 nd	Name of the Teaching Faculty: TUSHAR RANJAN MOHANTA & SWATILEENA SATPATHY
Subject: ENGG. CHEMISTRY LAB	No. of Class allotted per week : 04	Semester From date : 20/03/2023 To Date: 27/06/23 No. of Weeks: 15
Week	Class	Practical Topics
1 st	1 st	Introduction to Chemistry Lab, Safety Rules & Precautions
	2 nd	Preparation and study of physical and chemical properties of CO ₂ gas- Theory & Procedure discussion
	3 rd	Demo Practical
	4 th	Practical
2 nd	1 st	Practical
	2 nd	Submission of Record & Viva
	3 rd	Preparation and study of physical and chemical properties of NH ₃ gas- Theory & Procedure discussion
	4 th	Demo Practical
3 rd	1 st	Practical
	2 nd	Practical
	3 rd	Submission of Record & Viva
	4 th	Crystallization of Copper Sulphate from Copper Carbonate - Theory & Procedure discussion
4 th	1 st	Demo Practical
	2 nd	Practical
	3 rd	Practical
	4 th	Submission of Record & Viva
5 th	1 st	Simple Acid Base titration – Theory & Terminologies
	2 nd	Acidimetry – Theory, Procedure discussion & Demo Practical
	3 rd	Practical

6 th	4 th	Practical
	1 st	Submission of Record & Viva
	2 nd	Alkalimetry - Theory, Procedure discussion & Demo Practical
	3 rd	Practical
7 th	4 th	Practical
	1 st	Submission of Record & Viva
	2 nd	Radicals: - Acid & Base, Salt Analysis (Theory)
	3 rd	Test of known acid radicals: Procedure discussion & demo
8 th	4 th	Practical
	1 st	Practical
	2 nd	Submission of Record & Viva
	3 rd	Test of known basic radicals: Procedure discussion & demo
9 th	4 th	Practical
	1 st	Practical
	2 nd	Submission of Record & Viva
	3 rd	Test for unknown acid radicals - Demo
10 th	4 th	Practical
	1 st	Practical
	2 nd	Submission of Record & Viva
	3 rd	Test for unknown basic radicals - Demo
11 th	4 th	Practical
	1 st	Practical
	2 nd	Submission of Record & Viva
	3 rd	Test for Acid & basic radicals in salt Mixture - Demo
12 th	4 th	Practical
	1 st	Practical
	2 nd	Submission of Record & Viva
	3 rd	Practical (Preparation and study of physical and chemical properties of CO ₂ gas)
13 th	4 th	Practical Preparation and study of physical and chemical properties of NH ₃ gas-
	1 st	Practical Crystallization of Copper Sulphate from Copper Carbonate
	2 nd	Practical (Acidimetry)
	3 rd	Practical (Alkalimetry)
14 th	4 th	Practical (Test for unknown acid radicals)
	1 st	Practical (Test for unknown basic radicals)
	2 nd	Practical (Test for Acid & basic radicals in salt Mixture)
	3 rd	Doubt Clearing & Practice
15 th	4 th	Doubt Clearing & Practice
	1 st	Doubt Clearing & Practice
	2 nd	Doubt Clearing & Practice
	3 rd	Doubt Clearing & Practice
	4 th	Doubt Clearing & Practice

Good for
20/2/2023

T. Mohank
20.3.2023