14.Lesson Plan:

LESSON PLAN: ENGINEERING CHEMISTRY LAB

Discipline:	Semester:	Name of the Teaching Faculty: TUSHAR RANJAN MOHANTA &
IECHANICAL	2 nd	SWATILEENA SATPATHY
NGG.		
Subject: ENGG. CHEMISTRY AB	No. of Class allotted	Semester From date : 20/03/2023 To Date: 27/06/23 No. of Weeks: 15
	per week : 04	
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 1 % Viva
	3 rd	Submission of Record & Viva Crystallization of Copper Sulphate from Copper Carbonate - Theory &
	4 th	Procedure discussion
4 th	1 st	Demo Practical
	2 nd	Practical
	3 rd	Practical Submission of Record & Viva Submission of Record & Terminologies
	4 th	Submission of Record & Viva Submission of Record & Viva Simple Acid Base titration – Theory & Terminologies Simple Acid Base titration – Theory Procedure discussion & Demo Practical
5 th	1 st	Simple Acid Base titration - Theory & Terminologies Simple Acid Base titration - Theory & Terminologies Acidimetry - Theory, Procedure discussion & Demo Practical
	2 nd	Acidimetry - Theory,
	3 rd	Practical

4th Practical Submission of Record & Viva Alkalimetry - Theory, Procedure discuss 4th Practical 4th Practical 4th Practical 2nd Submission of Record & Viva 2nd Practical	ssion & Demo Practical
5th 2nd Submission of Record & Viva Alkalimetry - Theory, Procedure discuss Practical 4th Practical Submission of Record & Viva Alkalimetry - Theory, Procedure discuss Practical Submission of Record & Viva	ssion & Demo Practical
3rd Practical 4th Practical 7th Submission of Recent Control	ssion & Demo Practical
7 th Practical Submission of Base 1 5 and	ssion & Demo Practical
7 th Practical Submission of Base 1 5 and	
7th Submission of Para Land	
2 nd Radicals: Apid 6 Five	
Radicals: - Acid & Base, Salt Analysis Test of known acid are first of the salt analysis	(Theory)
Test of known acid radicals: Procedure 4th Practical	e discussion & demo
8th 1st Practical	
Submission of Record & Viva 3rd Test of known by its answer.	
rest of known basic radicals: Procedur	re discussion & demo
Tractical	
Tractical	
- Submission of Record & Viva	
3rd Test for unknown acid radicals - Demo)
Tractical	
10th - Thethear	
i i i i i i i i i i i i i i i i i i i	
- Cot for Black Wit Basic Tadicals - Deli	10
Tractical	
11th 1 st Practical 2 nd Submission of Record & Viva	
3 rd Test for Acid & basic radicals in salt N	divture - Demo
4 th Practical	Vixture - Demo
12th 1 st Practical Submission of Record & Viva	
3 rd Practical (Preparation and study of phy	vsical and chemical properties of
CO mas)	
4th Practical Preparation and study of physical	sical and chemical properties of NH3
035-	
13th 1st Practical Crystallization of Copper Su	lphate from Copper Carbonate
2 nd Practical (Acidimetry)	
2rd Practical (Alkalimetry)	
4th Practical (Test for unknown acid radio	als)
14th 1st Practical (Test for unknown basic radi	cals)
2nd Practical (Test for Acid & basic fadical	als in sait Mixture)
3 rd Doubt Clearing & Practice	
4th Doubt Clearing & Practice	
15th 1 st Doubt Clearing & Practice	
and Doubt Clearing & Plactice	
3 rd Doubt Clearing & Practice	
4th Doubt Clearing & Practice	

20 19/2013 T. Moharke