

LESSON PLAN : ENGINEERING CHEMISTRY LAB

Discipline : ELECTRICAL ENGG.	Semester : 1ST	Name of the Teaching Faculty: TUSHAR RANJAN MOHANTA & SWATILEENA SATPATHY
Subject: ENGG. CHEMISTRY LAB	No. of days/per week class allotted: 04	Semester From Date: 25.10.2022 To Date: 31.01.2023 No. of Weeks: 15
Week	Class Day	Practical
1ST	1ST	Introduction to Chemistry Lab, Safety Rules & Precautions
	2ND	Preparation and study of physical and chemical properties of CO ₂ gas - Theory & Procedure discussion
	3RD	Demo Practical
	4TH	Practical
2ND	1ST	Practical
	2ND	Record checking
	3RD	Preparation and study of physical and chemical properties of NH ₃ gas - Theory & Procedure discussion
	4TH	Demo Practical
3RD	1ST	Practical
	2ND	Practical
	3RD	Practical, doubt clearing
	4TH	Record checking
4TH	1ST	Crystallization of Copper sulphate from copper carbonate - Theory & Procedure discussion
	2ND	Demo Practical
	3RD	Practical
	4TH	Practical
5TH	1ST	Practical
	2ND	Record checking
	3RD	Simple acid base titration – Theory & terminologies
	4TH	Acidimetry – Theory, Procedure discussion & Demo Practical
6TH	1ST	Practical
	2ND	Practical
	3RD	Record checking
	4TH	Record checking & doubt clearing
7TH	1ST	Alkalimetry - Theory, Procedure discussion & Demo Practical
	2ND	Practical
	3RD	Practical
	4TH	Record checking
8TH	1ST	INTERNAL EXAMINATION
	2ND	INTERNAL EXAMINATION
	3RD	Record checking & doubt clearing
	4TH	Radicals :- Acid & Base, Salt Analysis(Theory)
9TH	1ST	Test of known acid radicals : Procedure discussion & demo
	2ND	Test for carbonate, sulphate (Practical)

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	3 RD	Test for chloride, nitrate (Practical)
	4 TH	Record checking
10 TH	1 ST	X'MAS HOLIDAYS
	2 ND	X'MAS HOLIDAYS
	3 RD	X'MAS HOLIDAYS
	4 TH	X'MAS HOLIDAYS
11 TH	1 ST	Test of known basic radicals : Procedure discussion & demo
	2 ND	Test for ammonium, zinc, aluminium
	3 RD	Test for magnesium, calcium, sodium, potassium
	4 TH	Practical
12 TH	1 ST	Practical
	2 ND	Record checking
	3 RD	Doubt clearing & Record checking
	4 TH	Test for unknown acid radicals - Demo
13 TH	1 ST	Practical
	2 ND	Practical
	3 RD	Record checking
	4 TH	Test for unknown basic radicals - Demo
14 TH	1 ST	Practical
	2 ND	Practical
	3 RD	Record checking
	4 TH	Test for unknown salts - Demo
15 TH	1 ST	Practical
	2 ND	Record checking

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