

Academic Lesson Plan for Engg. Chemistry Lab (Winter-2023)

Discipline: Civil & Mechanical	Semester: 1st	Name of the teaching faculty: Sasmita Moharana & Madhusmita Sahoo
Subject: Engg. Chemistry Lab	No. of days/per week	Semester from: 16/08/2023-11/12/2023
	Class Allotted: 4	No. of weeks: 15
Week	Class day	Practical Topics
1st	1st	Introduction to basic laboratory equipments
	2nd	
	3rd	Demonstration on preparation , properties of CO ₂ gas
	4th	
2nd	1st	Practice by students on preparation , properties of CO ₂ gas
	2nd	
	3rd	Demonstration on preparation , properties of NH ₃ gas
	4th	
3rd	1st	Practice by students on preparation , properties of NH ₃ gas
	2nd	
	3rd	Demonstration on preparation of CuSO ₄ Crystal from CuCO ₃ powder
	4th	
4th	1st	Practice by students on preparation of CuSO ₄ Crystal from CuCO ₃ powder
	2nd	
	3rd	Demonstration on simple acidimetry
	4th	
5th	1st	Practice on simple acidimetry
	2nd	

	3rd	Demonstration on simple alkalimetry
	4th	Practice on simple alkalimetry
6th	1st	Demonstration on Tests for acid radicals (Known): (i) Carbonate, (ii) Sulphide,
	2nd	
	3rd	Practice on Tests for acid radicals (Known): (i) Carbonate, (ii) Sulphide,
	4th	
7th	1st	Demonstration on Tests for acid radicals (Known): (iii) Chloride,
	2nd	
	3rd	Tests for acid radicals (Known): (iii) Chloride,
	4th	
8th	1st	Demonstration on Tests for acid radicals (Known): (iv) Nitrate and (v) Sulphate
	2nd	
	3rd	Tests for acid radicals (Known): (iv) Nitrate and (v) Sulphate
	4th	
9th	1st	Dry tests for basic Radicals (Heating in a dry Test Tube & Heating in a Charcoal Cavity)
	2nd	
	3rd	Dry tests for basic Radicals (Soda lime Test & Cobalt Nitrate Test)
	4th	
10th	1st	Dry tests for basic Radicals (Flame Test & Charcoal Cavity Reduction Test)
	2nd	
	3rd	Wet tests for basic Radicals (Ammonium, Magnesium & Zinc)
	4th	
11th	1st	Wet tests for basic Radicals (Ammonium, Magnesium & Zinc)
	2nd	

	3rd	Wet tests for basic Radicals (Aluminium, Calcium, Sodium and potassium)
	4th	
12th	1st	Wet tests for basic Radicals (Aluminium, Calcium, Sodium and potassium)
	2nd	
	3rd	Demonstration on Tests for unknown Acid radicals
	4th	
13th	1st	Practice on Tests for unknown Acid radicals
	2nd	
	3rd	Demonstration on Tests for unknown Basic radicals
	4th	
14th	1st	Practice on Tests for unknown Basic radicals
	2nd	
	3rd	Demonstration on Tests for unknown salt.
	4th	
15th	1st	Practice on Tests for unknown Salt.
	2nd	
	3rd	Practice on Tests for unknown Salt.
	4th	

Sasmita Moharana Madhusmita Sahas

Signature of Faculty