

DEPARTMENT OF MATHS AND SCIENCE

LESSON PLAN

Discipline: Mechanical Met	Semester: 1st/2nd	Name of the Teaching faculty: Hitesh Mallick, Sasmita Tiadi . <i>Laxmi Pradya Banarjee</i>	
Subject: Chemistry practical	No of Days/Week class alloted: 4	Semester from Date: <i>25.10.21</i>	To Date: No of weeks: 16
Week	Class Day	Topics	
1st	1st	Learning about apparatus used in chemistry lab and their safety	
	2nd	EXPT 1: Preparation of carbon dioxide gas and study of its properties	
	3rd	Discussion	
	4th	Record and viva	
2nd	1st	Expt 2: crystallisation of copper sulphate from copper carbonate	
	2nd	Demonstration	
	3rd	Submission of dry $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ crystals by the students	
	4th	Record and viva	
3rd	1st	Expt 3: Acid Base Titration	
	2nd	Theory	
	3rd	Demonstration	
	4th	Discussion	
4th	1st	Titration of strong acid with weak base	
	2nd	Experiment	
	3rd	Tabulation and Calculation	
	4th	Record and viva	
5th	1st	Titration of weak acid with strong base	
	2nd	Experiment	
	3rd	Tabulation and Calculation	
	4th	Record and viva	
6th	1st	Assignment	
	2nd	Question discussion	
	3rd	Record and viva	
	4th	Record and viva	
7th	1st	Expt 4 : Salt analysis	
	2nd	Theory	
	3rd	Discussion	
	4th	Types of salt	
8th	1st	Determination of known basic radicals	
	2nd	Theory and demonstration	
	3rd	Demonstration of known acid radicals	
	4th	Theory and demonstration	
9th	1st	Experiment by students (known basic radicals)	
	2nd	Do	
	3rd	Do	
	4th	Do	
10th	1st	Experiment by students (known acid radicals)	
	2nd	Do	
	3rd	Do	
	4th	Do	
11th	1st	Determination of unknown basic radicals	
	2nd	Experiment by the students	

	3rd	Do
	4th	Do
12th	1st	Determination of unknown acid radicals
	2nd	Experiment by the students
	3rd	Do
	4th	Do
13th	1st	Identification of unknown Salt
	2nd	Experiment by the students
	3rd	Do
	4th	Do
14th	1st	Do
	2nd	Do
	3rd	Do
	4th	Do
15th	1st	Record and viva
	2nd	Record and viva
	3rd	Revision
	4th	Revision

Books Recommended

1. Engineering Chemistry practical by Y.R. Sharma and P. Mitra, Kalyani Publishers
2. Modern abc

Laxminandan Banara

Arush Malik
Sasmita Reddy