

KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Session (2021 -2022)

Discipline: Civil/Mechanical/Metal lurgy	Semester: 2 nd , summer /2022	Name of the faculty:Dr.Ranjita P. Biswal Email Id:ranjita^fch@kp.kiit.ac.in
Subject: Engineering Chemistry Practical (Pr- 2b)	No. of Days/week: 02 (2 periods / Day) Experiments will be performed in small groups of 5 to 6 students	Start Date: 14/03/2022 End Date: 30/06/2022

Week	Class Day	Practical Topics
1 st	1st	<ul style="list-style-type: none"> Rules ,regulation ,Distribution of marks, Lab needs such as manual, rough record, apron. Crystallization of copper sulfate from copper carbonate Acid-Base titration, Demonstration, done by the students
	2nd	<ul style="list-style-type: none"> Rules ,regulation , Distribution of marks, Lab needs such as manual, rough record, apron Crystallization of copper sulfate from copper carbonate Acid-Base titration, Demonstration, done by the students
2nd	1st	<ul style="list-style-type: none"> Fundamentals , brief idea about experiments, Analysis of Acid radicals(CO_3^{2-} , S^{2-}, Cl^-, NO_3^-, SO_4^{2-})
	2nd	<ul style="list-style-type: none"> Fundamentals , brief idea about experiments, Analysis of Acid radicals(CO_3^{2-} , S^{2-}, Cl^-, NO_3^-, SO_4^{2-})
3rd	1st	<ul style="list-style-type: none"> Demonstration of Analysis of Acid radicals(CO_3^{2-} , S^{2-} , Cl^-, NO_3^-, SO_4^{2-})
	2nd	<ul style="list-style-type: none"> Demonstration Analysis of Acid radicals(CO_3^{2-} , S^{2-} , Cl^-, NO_3^-, SO_4^{2-})

4th	1st	<ul style="list-style-type: none"> Analysis of Acid radicals(CO_3^{2-}, S^{2-}, Cl^-, NO_3^-, SO_4^{2-}) done by the student
	2nd	<ul style="list-style-type: none"> Repeat Class/Defaulter
5th	1st	<ul style="list-style-type: none"> Detection of acid radical, demonstration
	2nd	<ul style="list-style-type: none"> Detection of acid radical, demonstration
6th	1st	<ul style="list-style-type: none"> Analysis of the basic radical through dry test(Cu^{2+}, Al^{3+}, Zn^{2+}, Ca^{2+}, NH_4^+, Mg^{2+}, Na^+, K^+)
	2nd	<ul style="list-style-type: none"> Analysis of the basic radical through dry test(Cu^{2+}, Al^{3+}, Zn^{2+}, Ca^{2+}, NH_4^+, Mg^{2+}, Na^+, K^+)
7th	1st	<ul style="list-style-type: none"> Analysis of the basic radicals through wet test
	2nd	<ul style="list-style-type: none"> Analysis of the basic radicals through wet test
8th	1st	<ul style="list-style-type: none"> Repeat Class
	2nd	<ul style="list-style-type: none"> Identification of salt , Demonstration and done by the student
9th	1st	<ul style="list-style-type: none"> Identification of salt , Demonstration and done by the student
	2nd	<ul style="list-style-type: none"> NH_3 gas preparation & properties, Demonstration and done by the student
10th	1st	<ul style="list-style-type: none"> NH_3 gas preparation & properties, Demonstration and done by the student
11th	2nd	<ul style="list-style-type: none"> CO_2 gas preparation & properties, Demonstration and done by the student
12th	1st	<ul style="list-style-type: none"> CO_2 gas preparation & properties, Demonstration and done by the student
	2nd	Repeat Class for experiment 1,2 & 3
13th	1st	Repeat Class for experiment 4,5 & 6
	2nd	Repeat Class for experiment 7,8 & 9
14th	1st	Practice Test
	2nd	Practice Test