

KIITPOLYTECHNIC, BHUBANESWAR

LESSONPLAN

Session(2022-2023)

Discipline: Civil/Mechanical/ Metallurgy	Semester:2nd Summer 2023	Name of the faculty: Mr.Rakesh Kumar Beura Email Id:rakesh.beurafch@kp.kiit .ac.in
Subject: Engineering Chemistry Practical (Pr-2b)	No. of Days/week:02(2perio ds /Day) Experiments will be performed in small groups Of 5to6students	Start Date: 20.03.2023 EndDate:27.06.2023

Week	ClassDay	PracticalTopics
1 st	1st	<ul style="list-style-type: none"> Rules,regulation,Distribution of marks, Lab needs such as manual,roughrecord,apron. Fundamentals,brief idea about experiments,AnalysisofAcidradicals(CO_3^{2-}, S^{2-}, Cl^-, NO_3^-, SO_4^{2-})
	2nd	<ul style="list-style-type: none"> Rules,regulation,Distributionofmarks,Labneedssuchasmanual,rough record,apron Fundamentals,brief idea about experiments,AnalysisofAcidradicals(CO_3^{2-}, S^{2-}, Cl^-, NO_3^-, SO_4^{2-})
2nd	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 of Analysis of Acid radicals(CO_3^{2-}, S^{2-}, Cl^-, NO_3^-, SO_4^{2-})
3rd	1st	<ul style="list-style-type: none"> Analysis of Acidradicals(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

4th	1st	<ul style="list-style-type: none"> Detection of acid radical, demonstration
	2nd	<ul style="list-style-type: none"> Detection of acid radical, demonstration
5th	1st	<ul style="list-style-type: none"> Analysis of the basic radical through drytest(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 drytest(Cu^{2+}, Al^{3+}, Zn^{2+}, Ca^{2+}, NH_4^+, Mg^{2+}, Na^+, K^+)
6th	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
7th	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
8th	1st	<ul style="list-style-type: none"> Identification of salt, Demonstration and done by the student
	2nd	<ul style="list-style-type: none"> Acid-Base titration, Demonstration, done by the students
9th	1st	<ul style="list-style-type: none"> Acid-Base titration, Demonstration, done by the students
	2nd	<ul style="list-style-type: none"> CO_2 gas preparation & properties, Demonstration and done by the student
10th	1st	<ul style="list-style-type: none"> CO_2 gas preparation & properties, Demonstration and done by the student
11th	2nd	<ul style="list-style-type: none"> NH_3 gas preparation & properties, Demonstration and done by the student Crystallization of copper sulfate from copper carbonate
12th	1st	<ul style="list-style-type: none"> NH_3 gas preparation & properties, Demonstration and done by the student Crystallization of copper sulfate from copper carbonate
	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