KIITPOLYTECHNIC, BHUBANESWAR

LESSONPLAN

Session(2023-2024)

Discipline: Mechanical/Metallurgy/ Civil	Semester: 2 nd Summer/2024	Name of thefaculty: Dr.Ranjita.P.Biswal Email Id:ranjitafch@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: 29/01/2024 EndDate:14/05/2024

Week	ClassDay	PracticalTopics
] st	1st	 Rules,regulation,Distribution of marks, Lab needs such as manual,roughrecord,apron. Fundamentals, brief idea about experiments,AnalysisofAcidradicals(CO₃²⁻,Cl.,NO₃,SO₄₂₋)
	2nd	Rules,regulation,Distributionofmarks,Labneedssuchasmanual,roug h record,apron Fundamentals,brief idea about experiments,AnalysisofAcidradicals(CO ₃ ²⁻ ,Cl.,NO ₃ ,SO ₄ ₂₋)
2nd	1st	Demonstration of Analysis of Acid radicals(CO ₃ 2- , S2-, Cl-, NO3-,SO42-)
	2nd	Demonstration of Analysis of Acid radicals(CO32- , S2-, Cl-, NO3-,SO42-)
3rd	1st	Analysis of Acidradicals(CO32-,S2-,Cl-,NO3-,SO4 ²⁻⁾ done by the student
	2nd	Repeat Class/ Defaulter

4th	1st	Detection of acid radical, demonstration	
	2nd	Detection of acid radical, demonstration	
5th	1st	 Analysis of the basic radical through drytest(Cu2+, Al3+,Zn2+,Ca2+,NH4+,Mg2+,Na+,K+) 	
	2nd	 Analysis ofthebasicradical throughdrytest(Cu2+, Al3+,Zn2+,Ca2+,NH4+,Mg2+,Na+,K+) 	
6th 1st		Analysis of the basic radicals through wet test	
	2nd	Analysis of the basic radicals through wet test	
7th	1st	Repeat Class	
	2nd	Identification of salt,Demonstration anddone by the student	
8th	1st	Identification of salt,Demonstration anddone by the student	
	2nd	Acid-Base titration, Demonstration, done by the students	
9th	1st	Acid-Base titration, Demonstration, done by the students	
	2nd	CO ₂ gas preparation &properties,Demonstration and done by the student	
10th	1st	CO ₂ gas preparation&properties,Demonstration and doneby the student	
11th	2nd	 NH3gas preparation& properties, Demonstration and donebythe student Crystallization of coppersulfate from coppercarbonate 	
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12th	1st	 NH3gas preparation& properties, Demonstration and doneby the student 	
		Crystallization of coppersulfate from coppercarbonate	
	2nd	Repeat Class for experiment1,2&3	
13th	1st	Repeat Class for experiment4,5&6	
	2nd	Repeat Class for experiment7,8&9	
14th	1st	PracticeTest	
	2nd	PracticeTest	