		GOVERNMENT POLYTECHNIC JAJPUR
		DEPARTMENT OF MATHS AND SCIENCE
		LESSON PLAN
Discipline: Math and Science	Semester: 1st/2n	Name of the Teaching faculty: Hitesh Mallick, Sasmita Tiadi
		Semester from Date: 25.10.2022 To Date: 31.01.2023
Subject: Chemistry practical	No of Days/Week class alloted: 4	No of weeks: 15
Week	Class Day	Topics
VVCCR	1st	Learning about apparatus used in chemistry lab and their safety
	2nd	EXPT 1: Preparation of carbon dioxide gas and study of its properties
1st	3rd	Discussion
	4th	Record and viva
2nd	1st	Expt 2: crystallisation of copper sulphate from copper carbonate
	2nd	Demonstration Submission of dry CuSO4.5H2O crystals by the students
	3rd	Record and viva
	4th	Expt 3: Acid Base Titration
	1st	
3rd	2nd	Theory Demonstration
	3rd	
	4th	Discussion Titration of strong acid with weak base
	1st	
4th	2nd	Experiment Tabulation and Calculation
	3rd	
	4th	Record and viva
	1st	Titration of weak acid with strong base
5th	2nd	Experiment
5.11	3rd	Tabulation and Calculation
	4th	Record and viva
	1st	Assignment
6th	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
		Do
	3rd	
	4th	Do Experiment by students (known acid radicals)
	1st	
10th	2nd	Do
1011	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
	1st	Identification of unknown Salt
40.1	2nd	Experiment by the students
13th	3rd	Do
	4th	Do
	1st	preparation and study of physical and chemical properties of NHz gas
1.4+b	2nd	Do J
14th	3rd	Do
	4th	Do
	1st	Record and viva
15th	2nd	Record and viva
1501	3rd	Revision
	4th	Revision
		Extra one week will be required to complete the syllabus.
		Books Recommended 1. Engineering Chemistry practical by Y.R. Sharma and P. Mitra, Kalyani Publishers 2. Modern abc
		Signature of Faculty
		Signature of Fadulty