

UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA**Academic Lesson Plan for 2nd Semester - 2024 (Summer)**

Name of the teaching faculty: Smt. Lopamudra Satpathy,
Guest Faculty, Lecturer (Chemistry)

Dept.: Department of Mathematics & Science

Semester : 2nd

Subject : Practical 2B : Engg. Chemistry Laboratory

No of Periods per week: 4,

Total Periods: 60,

End semester Exam.: 50 Marks,

Sessional: 50 Marks,

Total Marks: 100 Marks

Week	Period	Experiment	PRACTICAL
1st	1 st		Introduction to chemistry lab, about safety measures, about maintenance of practical records.
	2 nd		Introduction to the students about use of different lab equipments and how to handle them safely.
	3 rd	Exp.1	Dictation of the procedure of exp. 1, preparation and study of properties of CO ₂ gas, explanation of theory with equations.
	4 th	Exp.1	Dictation of the procedure of exp. 1, preparation and study of properties of CO ₂ gas, explanation of theory with equations.
2nd	1 st	Exp.1	Preparation Of CO ₂ gas
	2 nd	Exp.1	Expt. Conducted by the Students
	3 rd	Exp.1	Expt. Conducted by the Students
	4 th	Exp.1	Checking of rough practical record
3rd	1 st	Exp. 1	Checking of practical records and discussion of viva questions of expt. 1
	2 nd	Exp.1	Checking of practical records and discussion of viva questions of expt. 1
	3 rd	Exp.2	Dictation of the procedure of exp. 2 Preparation and study of properties of ammonia gas. Explanation Of Theory With Equations.
	4 th	Exp.2	Dictation of the procedure of exp.2 Preparation and study of properties of ammonia gas. Explanation Of Theory With Equations

4th	1 st	Exp.2	Demonstrate of the exp.2 (Preparation of ammonia gas)
	2 nd	Exp.2	Expt. Conducted by the Students
	3 rd	Exp.2	Expt. Conducted by the Students.
	4 th	Exp.2	Checking of rough practical record
5th	1 st	Exp.2	Checking of practical records and discussion of viva questions of expt. 2.
	2 nd	Exp.2	Checking of practical records and discussion of viva questions of expt. 2.
	3 rd	Exp.3	Dictation of the procedure of exp. 3. Crystallization of CuSO ₄ . Explanation Of Theory With Equations.
	4 th	Exp.3	Dictation of the procedure of exp. 3. Crystallization of CuSO ₄ . Explanation Of Theory With Equations
6th	1 st	Exp.3	Demonstrate of the exp.3(Crystallization)
	2 nd	Exp.3	Expt. Conducted by the Students
	3 rd	Exp.3	Expt. Conducted by the Students
	4 th	Exp.3	Checking of rough practical record
7th	1 st	Exp.3	Checking of practical records and discussion of viva questions of expt.3.
	2 nd	Exp.3	Checking of practical records and discussion of viva questions of expt.3.
	3 rd	Exp.4(i) & (ii)	Dictation of the procedure of exp.4 (i) and (ii) Acid Base Titration. Explanation Of Theory With Equations.
	4 th	Exp.4(i) & (ii)	Dictation of the procedure of exp.4 (i) and (ii) Acid Base Titration. Explanation Of Theory With Equations
8th	1 st	Exp.4(i)	Demonstrate of the exp.4(i) (Titration)

	2 nd	Exp.4(i)	Demonstrate of the exp. exp.4 (i) (Titration)
	3 rd	Exp.4(i)	Expt. Conducted by the Students Alkalimetry
	4 th	Exp.4(i)	Expt. Conducted by the Students Alkalimetry
9th	1 st	Exp.4 (ii)	Expt. Conducted by the Students Acidimetry
	2 nd	Exp.4 (ii)	Expt. Conducted by the Students Acidimetry
	3 rd	Exp.4(i) & (ii)	Checking of rough practical record
	4 th	Exp.4(i) & (ii)	Checking of rough practical record
10th	1 st	Exp.4(i) & (ii)	Checking of practical records and discussion of viva questions of Exp.4(i) & (ii)
	2 nd	Exp.4(i) & (ii)	Checking of practical records and discussion of viva questions of Exp.4(i) & (ii)
	3 rd	Exp.5	Dictation of the procedure of exp. 5. Test of acid radicals
	4 th	Exp.5	Dictation of the procedure of exp. 5. Test of acid radicals
11th	1 st	Exp.5	Demonstrate of the exp.5(Acid radicals)
	2 nd	Exp.5	Expt. Conducted by the Students
	3 rd	Exp.5	Expt. Conducted by the Students
	4 th	Exp.5	Checking of rough practical record
12th	1 st	Exp.5	Checking of practical records and discussion of viva questions of expt.5.
	2 nd	Exp.5	Checking of practical records and discussion of viva questions of expt.5.
	3 rd	Exp.6	Dictation of the procedure of exp.6. Test of basic radicals
	4 th	Exp.6	Dictation of the procedure of exp.6. Test of basic radicals
13th	1 st	Exp.6	Demonstrate of the exp.6(Basic radicals)
	2 nd	Exp.6	Expt. Conducted by the Students
	3 rd	Exp.6	Expt. Conducted by the Students

	4 th	Exp.6	Checking of rough practical record
14 th	1 st	Exp.6	Checking of practical records and discussion of viva questions of expt.6.
	2 nd	Exp.6	Checking of practical records and discussion of viva questions of expt.6.
	3 rd	Exp.7	Test of unknown salt(expt.7)
	4 th	Exp.7	Expt. Conducted by the Students
15 th	1 st	Exp.7	Expt. Conducted by the Students
	2 nd	Exp.7	Checking of rough practical record
	3 rd	Exp.7	Checking of practical records and discussion of viva questions of expt.7.
	4 th	Exp.7	Checking of practical records and discussion of viva questions of expt.7.

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