

IHARSUGUDA ENGINEERING SCHOOL, IHARSUGUDA

**DEPARTMENT OF
MATHEMATICS & SCIENCE**

LESSONPLAN

SESSION:2021-22

SUBJECT-ENGINEERING CHEMISTRY PRACTICAL

BRANCH-ALL BRANCHES


NAME OF THE FACULTY- Mrs. Sulagna Das

Sri. Jagannath Oram

SEMESTER-1ST/2ND

Sl.No.	WEEK	TIME (MIN)	LECTURE NO.	Experiments to be performed
1	1 ST	110	1	Introduction to Chemistry lab regarding record maintenance, safety rules and guidelines.
		110	2	EXPERIMENT- 1 (Preparation and study of physical and chemical properties CO ₂ gas) Introduction of the apparatus & chemical required and demonstration of Experiment
2	2 ND	110	3	Experiment performed by students
		110	4	Record writing by the students, record checking and viva voce.
3	3 RD	110	5	EXPERIMENT- 2 (Preparation and study of physical and chemical properties NH ₃ gas.) Introduction of the apparatus & chemical required and demonstration of Experiment
		110	6	Experiment performed by students
4	4 TH	110	7	Record writing by the students, record checking and viva voce.
		110	8	EXPERIMENT- 3 (Crystallization of Copper sulphate from copper carbonate) Introduction apparatus & chemical required and demonstration of Experiment
5	5 TH	110	9	Experiment performed by students
		110	10	Record writing by the students, record checking and viva voce.
6	6 TH	110	11	EXPERIMENT- 4 (Acidimetry titration) Introduction apparatus & chemical required and demonstration of Experiment
		110	12	Experiment, Observation and calculation by students.
7	7 TH	110	13	Record writing by the students, record checking and viva voce.
		110	14	EXPERIMENT- 5 (Alkalimetry titration) Introduction apparatus & chemical required and demonstration of Experiment
8	8 TH	110	15	Experiment, Observation and calculation by students
		110	16	Record writing by the students, record checking and viva voce.

9	9 TH	110	17	EXPERIMENT- 6(Tests for acid radicals (Known): (i) Carbonate, (ii) Sulphide, (iii) Chloride, (iv) Nitrate and (v) Sulphate Introduction to acid radical and demonstration of Experiment.
		110	18	Experiment performed by students
10	10 TH	110	19	Record writing by the students, record checking and viva voce.
		110	20	EXPERIMENT- 7(Test for unknown Acid radicals) Preliminary & basic idea to be given to find out unknown acid radical
11	11 TH	110	21	Experiment performed by students
		110	22	Record writing by the students, record checking and viva voce
12	12 TH	110	23	EXPERIMENT- 9 (Test for Basic radicals (Known): (i) Ammonium (ii) Zinc (iii) Magnesium (iv) Aluminium (v) Calcium (vi) Sodium (vii) potassium Introduction to basic radical and demonstration of Experiment
		110	24	Experiment performed by students
13	13 TH	110	25	EXPERIMENT- 10(Test for unknown basic radicals) Preliminary & basic idea to be given to find out unknown basic radical
		110	26	Experiment performed by students
14	14 TH	110	27	Record checking and viva voce.
		110	28	Test for unknown salt (composed of one basic radical and one acid radical) Preliminary & basic idea to be given to find out unknown basic radical and acid radical
15	15 th	110	29	Experiment performed by students
		110	30	Record checking and viva voce.


 Signature of faculty Member:


 Counter signature of H.O.D: