IHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA DEPARTMENT OF MATHEMATICS & SCIENCE

LESSON PLAN

SESSION: 2023-24

SUBJECT- ENGINEEING CHEMISTRY PRACTICAL NAME OF THE FACULTY- JAGANNATH ORAM, SULAGNA DAS SESSION: WINTER, SECTION: E1, E2, E3, E4, T1, T2

BRANCH- ELECTRICAL, ETC, IT SEMESTER-1ST Semester

SI.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 viv
3	3 RD	110	W. A	EXPERIMENT- 2 (Preparation and study of physical and chemical properties NH ₃ gas) Introduction of the apparatus & chemical required and demonstration of Experiment
	on four	110	W. C W.	Experiment performed by students
4	4 TH	110	7	Record writing by the students, record checking and viv
		110		EXPERIMENT- 3 (Crystallization of Copper sulphate fro copper carbonate) Introduction apparatus & chemical required ar demonstration of Experiment
5	5 TH	110	9	Experiment performed by students
		110	10	Record writing by the students, record checking and vivoce.

	110	11	EVPE-11
6 TH		17.102	EXPERIMENT- 4(i) (Acidmetry titration) Introduction apparatus & chemical required and demonstration of Experiment
	110	12	Experiment, Observation and calculation by students.
7 тн	110	13	Record writing by the students, record checking and viva voce.
	110	14	EXPERIMENT- 4(ii) (Alkalimetry titration) Introduction apparatus & chemical required and demonstration of Experiment
8тн	110	15	Experiment , Observation and calculation by students
	110	16	Record writing by the students, record checking and viva voce.
9 ^{тн}	110	17	EXPERIMENT- 5(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 TH	110	19	Record writing by the students, record checking and viva voce.
	110	20	EXPERIMENT- 6(Test for unknown Acid radicals) Preliminary & basic idea to be given to find out unknown acid radical
11TH	110	21	Experiment performed by students
	110	22	Record writing by the students, record checking and viva
12 TH	110	23	EXPERIMENT- 7 (Test for Basic radicals (Known): (i) Ammonium (ii) Zinc (iii) Magnesium (iv) Aluminium (v) Calcium (vi) Sodium (vi) Sodium (vii) potassium Introduction to basic radical and demonstration of Experiment
	7 ^{тн} 8 ^{тн} 10 ^{тн}	6 TH 110 110 7 TH 110 110 8 TH 110 110 110 110 110 1110 1110 1110 11	6TH 110 12 110 13 7TH 110 14 110 15 8TH 110 16 110 17 9TH 110 19 10TH 110 20 11TH 110 21 11TH 110 22

		110	24	Experiment performed by students
13	13 TH	110	25	EXPERIMENT- 8 (Test for unknown basic radicals) Preliminary & basic idea to be given to find out unknown basic radical
		110	26	Experiment performed by students
	14 TH	110	27	Record checking and viva voce.
14		110	28	EXPERIMENT- 9 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	15th	110	29	Experiment performed by students
		110	30	Record checking and viva voce.

Signature of faculty Member:

Counter signature of H.O.D:

Engg. School **Iharsugud**a