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: SUMMER, SECTION: C1,C2,M1,M2,M3,M4

BRANCH- CIVIL, MECHANICAL 1st YEAR: SEMESTER-2ND Semester

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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
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
i		110	6	Experiment performed by students
4	4 TH	110	7	Record writing by the students, record checking and vivovoce.
		110	8	EXPERIMENT- 3 (Crystallization of Copper sulphate from copper carbonate) Introduction apparatus & chemical required and demonstration of Experiment
5	5 ^H	110	9	Experiment performed by students
		110	10	Record writing by the students, record checking and viv

		110	11	44. 45
4				EXPERIMENT- 4(I) (Acidmetry titration)
	CTH.			Introduction apparatus & chemical required and
6	6 TH			demonstration of Experiment
		110	12	Experiment, Observation and calculation by students.
		110		Record writing by the students, record checking and viva
7	7114			voce.
		110	14	EXPERIMENT- 4(ii) (Alkalimetry titration)
				Introduction apparatus & chemical required and
		440		demonstration of Experiment
		110	15	Experiment , Observation and calculation by students
8	нт8			
		110	16	Record writing by the students record checking and viva
				voce.
		110	17	EXPERIMENT- 5(Tests for acid radicals (Known):
9				(i) Carbonate, (ii) Sulphide
		***		(iii) Chloride;)
	9 TH		,	(iv) Nitrate and
1				(v) Sulphate
		110	40%	Introduction to acid radical and demonstration of Experiment.
	P ast	110		Experiment performed by students
4 -		110	19	Record writing by the students, record checking and viva
10	/27th	\ \\\		voce.
	10"	110	20	EXPERIMENT- 6(Test for unknown Acid radicals)
4			*40	Preliminary & basic idea to be given to find out unknown acid
	100 M			radical
1000		110	21	Experiment performed by students
11	111H	*	- 1 2 - 1	
	1	110	22	Record writing by the students, record checking and viva
* #				voce
	12 TH	110	23	EXPERIMENT- 7 (Test for Basic radicals (Known): (i) Ammonium
12		=		(ii) Zinc
				(iii) Magnesium
7.76				(iv) Aluminium
		· ·		(v) Calcium (vi) Sodium
L				(VI) Codiditi

				(vii) potassium Introduction to basic radical and demonstration of Experiment
		110	24	Experiment performed by students
	13 [™]	110	25	EXPERIMENT- 8 (Test for unknown basic radicals) Preliminary & basic idea to be given to find out unknown
13		110	26	basic radical Experiment performed by students
		440		
	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

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