JHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA

DEPARTMENT OF MATHEMATICS&SCIENCE

LESSON PLAN

NAME OF THE FACULTY- BABITA PADHI & RITIKA DASH
SUBJECT-ENGINEEING PHYSICS PRACTICAL
SUBJECT CODE: PR-2A
SECTION: C1,C2, M1,M2,M3,M4

ACADEMIC YEAR: 2023-24
BRANCH-CIVIL, MECHANICAL
SEMESTER-1ST
SESSION:WINTER

Sl.No.	WEEK	TIME (MIN)	LECTURE NO.	Experiments to be performed
1	1ST	110	1	Introduction to physics lab regarding record maintenance, safety rules and guidelines.
		110	2	EXPERIMENT- 1 (Determination of cross sectional area of a given wire using Screw gauge) Introduction of the instrument and demonstration of Experiment
2	2ND	110	3	Observation and calculation by students
		110	4	Record writing by the students, record checking and viva voce.
3	3RD	110	5	EXPERIMENT- 2 (Determination of volume of a given glass piece using Screw gauge.) Introduction of the instrument and demonstration of Experiment
		110	6	Observation and calculation by students
4	4TH	110	7	Record writing by the students, record checking and viva voce.
		110	8	EXPERIMENT- 3 (Determination of Volume of solid Cylinder using Vernier callipers.) Introduction of the instrument and demonstration of Experiment
5	5TH	110	9	Observation and calculation by students
		110	10	Record writing by the students, record checking and viva voce.
6	6TH	110	11	EXPERIMENT- 4 (Determination of volume of Hollow Cylinder using Vernier callipers.) Demonstration of Experiment & Observation and calculation by students
		110	12	Observation and calculation by students
7	7TH	110	13	Record writing by the students, record checking and viva voce.
		110	14	EXPERIMENT- 5 (Determination of Radius of curvature of convex surface using Spherometer) Introduction of the instrument and demonstration of Experiment.

8	8TH	110	15	Observation and calculation by students
		110	16	Record writing by the students, record checking and viva voce.
9	9TH	110	17	EXPERIMENT- 6(Determination of Radius of curvature of concave surface using Spherometer) Introduction of the instrument and demonstration of Experiment.
		110	18	Observation and calculation by students
10	10TH	110	19	Record writing by the students, record checking and viva voce.
		110	20	EXPERIMENT- 7(Determination of the angle of prism) Introduction of the instrument and demonstration of Experiment.
11	11TH	110	21	Drawing and measurement of angle by students
		110	22	Record writing by the students, record checking and viva voce.
12	12TH	110	23	EXPERIMENT- 8(Determination of the angle of minimum deviation by I-D curve method.) Introduction of the instrument and demonstration of Experiment.
		110	24	Drawing and plotting of graph by students
13	13TH	110	25	Record writing by the students, record checking and viva voce.
		110	26	EXPERIMENT- 9 (Tracing of lines of force due to a bar magnet with North pole pointing North and locate the neutral points.) Introduction of the instrument and demonstration of Experiment.
14	14TH	110	27	Drawing of magnetic lines on sheet by students. Record checking and viva voce
		110	28	EXPERIMENT- 10(Tracing of lines of force due to a bar magnet with North pole pointing South and locate the neutral points.) Introduction of the instrument and demonstration of Experiment.
15	15th	110	29	Drawing of magnetic lines on sheet by students.
		110	30	Record checking and viva voce.

18/1/24 18/1/24

Signature of faculty member

18/01/24

Signature of Sr. Lecturer

Sr. Lect. (M/Sc)
Engg. School
Jharsuguda