

ACADEMIC LESSON PLAN OF ENGG.PHYSICS PRACTICAL-2023(WINTER)

Subject:Engg.Physics Practical(Pr 2a)

Department: Math & Sc.

Discipline: Electrical Engineering, ETC, IT, Arch. Assistance.	Name of the teaching faculty: Arundhati Behera : Sashwata Sahoo	
Subject-Engg.Physics Practical(Pr2a)	Semester from : 1.08.2023 to 11.12.23 No. of weeks:15 weeks	
WEEK	No.of days/per week class allotted. 4p/week.	Practical Topics
1 st week	1 st	EXPERIMENT 1 :- To find the cross sectional area of a wire using a screw gauge. Demonstration given.
	2 nd	Observation and readings taken by the students.
2 nd week	1 st	Verification of the observation and readings taken by the students. Sessional of the experiment 1.
	2 nd	EXPERIMENT 2 :-To find the thickness and volume of a glass piece using a screw gauge. Demonstration given.
3 rd week	1 st	Observation and readings taken by the students.
	2 nd	Verification of the observation and readings taken by the students. Sessional of experiment 2.
4 th week	1 st	EXPERIMENT 3 :- To find volume of a solid cylinder using a Vernier Calipers. Demonstration given.
	2 nd	Observation and readings taken by the students.
5 th week	1 st	Verification of the observation and readings taken by the students. Sessional of experiment3.
	2 nd	EXPERIMENT 4:- To find volume of a hollow cylinder using a Vernier Calipers. Demonstration given.
6 th week	1 st	Observation and readings taken by the students.

	2 nd	Verification of the observation and readings taken by the students. Sessional of experiment3.
7 th week	1 st	EXPERIMENT 5 :- To determine the radius of curvature of convex surface using a Spherometer. Demonstration given.
	2 nd	Observation and readings taken by the students.
8 th week	1 st	Verification of the observation and readings taken by the students.
	2 nd	Sessional of experiment5.
9 th week	1 st	EXPERIMENT 6:- To determine the radius of curvature of concave surface using a Spherometer.
	2 nd	Verification of the observation and readings taken by the students and Sessional of experiment 6.
10 th week	1 st	EXPERIMENT 7:- To find the time period of a simple pendulum and determine acceleration due to gravity. Demonstration given and Observation and readings taken by the students
	2 nd	Verification of the observation and readings taken by the students and Sessional of experiment 7.
11 th week	1 st	EXPERIMENT 8:- To determine the angle of Prism. Demonstration given and Observation and readings taken by the students
	2 nd	Verification of the observation and readings taken by the students and Sessional of experiment 8.
12 th week	1 st	EXPERIMENT 9:- To determine the angle of Minimum Deviation by $I \sim D$ curve method. Demonstration given and Observation and readings taken by the students.
	2 nd	Verification of the observation and readings taken by the students and Sessional of experiment 9.
13 th week	1 st	EXPERIMENT 10:- To trace lines of force due to a bar magnet with North pole pointing North and locate the

		neutral points. Demonstration given and Observation and readings taken by the students.
	2 nd	Verification of the observation and readings taken by the students and Sessional of experiment 10.
14 th week	1 st	EXPERIMENT 11:- To trace lines of force due to a bar magnet with North pole pointing South and locate the neutral points. Demonstration given and Observation and readings taken by the students.
	2 nd	Verification of the observation and readings taken by the students and Sessional of experiment 11.
15 th week	1 st	EXPERIMENT 12:- To verify Ohm's Law by Ammeter-Voltmeter method. Demonstration given and Observation and readings taken by the students.
	2 nd	Verification of the observation and readings taken by the students and Sessional of experiment 12.

Arundhati Behera

Sashwata Sahoo

Signature of the faculty