LESSON PLAN

SUBJECT: APPLIED PHYSICS - I LAB (PR-2)

BRANCH: COMMON TO ALL BRANCHES

SEMESTER: 1ST (2025-26)

NAME OF THE FACULTY: Dr. ABHILASH PADHY

GOVERNMENT POLYTECHNIC, BHADRAK

HOD, Humanities & Sciences

Academic Coordinator

Principal
Govt. Polytechnic, Bhadrak

GOVT. POLYTECHNIC BHADRAK		
DEPARTMENT OF HUMANITIES & SCIENCES		
LESSON PLAN (ACADEMIC SESSION 25-26)		
Discipline: Physics	**Semester: 1st**	**Name of the teaching faculty: Dr. Abhilash Padhy**
Subject: Applied Physics Lab I	**No of Days/Week class allotted: 1**	**Semester from Date: 06/8/2025 to 04/12/2025** **No of weeks: 17**
Week	**Class Day**	**Practical Topics**
1st	1st	Introduction to Physics lab, Brief discussion of lab equipment, Lab Rubrics, Probable errors while performing experiment.
2nd	2nd	Measurement of length, radius of a given cylinder, a test tube and a beaker using a Vernier Caliper and find volume of each object. (Demo & Practice)
3rd	3rd	Measurement of length, radius of a given cylinder, a test tube and a beaker using a Vernier Caliper and find volume of each object. (Assessment)
4th	4th	Determination of diameter of a wire, a solid ball and thickness of cardboard using a screw gauge. (Demo & Practice)
5th	5th	Determination of diameter of a wire, a solid ball and thickness of cardboard using a screw gauge. (Assessment)
6th	6th	Determination of radius of curvature of a convex and a concave mirror or surface using a spherometer. (Demo & Practice)
7th	7th	Determination of radius of curvature of a convex and a concave mirror or surface using a spherometer. (Assessment)
8th	8th	Verification of triangle and parallelogram law of forces. (Demo & Practice)
9th	9th	Verification of triangle and parallelogram law of forces. (Assessment)
10th	10th	Determination of the coefficient of friction between wood and glass using a horizontal board. (Demo & practice)
11th	11th	Determination of the coefficient of friction between wood and glass using a horizontal board. (Assessment)
12th	12th	Determination of force constant of a spring using Hook's law. (Demo & Practice)
13th	13th	Determination of force constant of a spring using Hook's law. (Assessment)
14th	14th	Determination of moment of Inertia of a flywheel. (Demo,Practice & Assessment)
15th	15th	Measurement of the room temperature and temperature of a hotbath using mercury thermometer and convert it into different scales. (Demo, Practice & Assessment)
16th	16th	Remedial Lab Class
17th	17th	Remedial Lab Class

07/08/2025

Signature of the Teaching Faculty

07/08/25

Signature of HOD, Humanities & Sciences