

Lesson Plan For Applied Physics-I Lab

Discipline: Common to all branch		Semester: 1st , Name of Faculty : Mrs Arundhati Behera
Subject: Applied Physics -I Lab	No. of days per week Class allotted: 2	Semester From Date: 06-08-2025 To date : 04-12-2025
Week	Class Day	Practical
1st	1st	EXPERIMENT 1:-To measure length, radius of a given cylinder, a test tube and a beaker using a Vernier caliper and find volume of each object.
	2nd	Observation and readings taken by the students.
2nd	1st	Verification of the observation and readings taken by the students. Sessional of the experiment 1.
	2nd	EXPERIMENT 2:-To determine diameter of a wire, a solid ball and thickness of cardboard using a screw gauge.
3rd	1st	Observation and readings taken by the students.
	2nd	Verification of the observation and readings taken by the students. Sessional of the experiment 2.
	3rd	EXPERIMENT 3:-To determine radius of curvature of a convex and a concave mirror/surface using a spherometer..
	4th	Observation and readings taken by the students.
4th	1st	Verification of the observation and readings taken by the students. Sessional of the experiment 3.
	2nd	EXPERIMENT 4:-To verify triangle and parallelogram law of forces
5th	1st	Observation and readings taken by the students.
	2nd	Verification of the observation and readings taken by the students. Sessional of the experiment 4.
6th	1st	EXPERIMENT 5:-To find the co-efficient of friction between wood and glass using a horizontal board.
	2nd	Observation and readings taken by the students.
7th	1st	Verification of the observation and readings taken by the students. Sessional of the experiment 5.
	2nd	EXPERIMENT 6:-To determine force constant of a spring using Hook's Law.
8th	1st	Observation and readings taken by the students.
	2nd	Verification of the observation and readings taken by the students. Sessional of the experiment 6.
9th	1st	EXPERIMENT 7:-To verify law of conservation of mechanical energy (PE to KE).
	2nd	Observation and readings taken by the students.
10th	1st	Verification of the observation and readings taken by the students. Sessional of the experiment 7.
	2nd	EXPERIMENT 8:-To find the moment of inertia of a flywheel.
	1st	Observation and readings taken by the students.

Wee k	Class Day	Practical
11th	2nd	Verification of the observation and readings taken by the students. Sessional of the experiment 8.
12th	1st	EXPERIMENT 9:-To find the viscosity of a given liquid (Glycerin) by Stoke's law.
	2nd	Observation and readings taken by the students.
13th	1st	Verification of the observation and readings taken by the students. Sessional of the experiment 9.
	2nd	EXPERIMENT 10:-To find the coefficient of linear expansion of the material of a rod.
14th	1st	Observation and readings taken by the students.
	2nd	Verification of the observation and readings taken by the students. Sessional of the experiment 10.
15th	1st	EXPERIMENT 11:-. To determine atmospheric pressure at a place using Fortin's barometer.
	2nd	Observation and readings taken by the students.

BOOK REFERENCE:

- 1 Applied Physics-II by Prof. Hussain Jeevakhan
- 2 Text Book of Physics for Class XII(Part-I, Part-II); N.C.E.R.T., Delhi
- 3 Comprehensive Practical Physics, Vol, I & II, JN Jaiswal, Laxmi Publications (P) Ltd., New Delhi

Concerned faculty:

Smt Arundhati Behera, Sr. Lecturer in Physics

