



ସରକାରୀ ବହୁବୃତ୍ତ ବୈଷୟିକ ଶିକ୍ଷାକୁଷାନ କନ୍ଧମାଳ, ଫୁଲବାଟୀ  
GOVERNMENT POLYTECHNIC - KANDHAMAL, PHULBANI

## Lesson Plan- APPLIED PHYSICS-I LAB

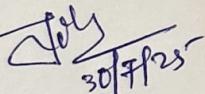
Discipline: Civil, Electrical, Mechanical & Comp. Sc. Engg.		Semester: 1st Sri Jiten Mishra	Name of Faculty :
Subject: Applied Physics - I Lab	No. of days per week Class allotted: 2	Semester From Date: 06-08-2025 To date : 04-12-2025	
Week	Class Day	EXPERIMENTS	
1st	1st (2 Periods)	Introduction	INTRODUCTION TO PHYSICS LAB
2nd	2nd (2 Periods)	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.	Introduction of the instrument and demonstration of Experiment, Observation and calculation by students Record writing by the students, record checking and viva voce.
3rd	3rd (2 Periods)		
4th	4th (2 Periods)	EXPERIMENT - 2: To determine diameter of a wire, a solid ball and thickness of cardboard using a screw gauge.	Introduction of the instrument and demonstration of Experiment, Observation and calculation by students Record writing by the students, record checking and viva voce.
5th	5th (2 Periods)		
6th	6th (2 Periods)	EXPERIMENT - 3: To determine radius of curvature of a convex and a concave mirror/surface using a spherometer.	Introduction of the instrument and demonstration of Experiment, Observation and calculation by students Record writing by the students, record checking and viva voce.
7th	7th (2 Periods)		
8th	8th (2 Periods)	EXPERIMENT - 4: To verify triangle and parallelogram law of forces.	Introduction of the instrument and demonstration of Experiment, Observation and calculation by students for Triangle's Law Record writing by the students, record checking and viva voce.
9th	9th (2 Periods)		
10th	10th (2 Periods)	EXPERIMENT - 5: To find the co-efficient of friction between wood and glass using a horizontal board.	Introduction of the instrument and demonstration of Experiment, Observation and calculation by students Record writing by the students, record checking and viva voce.
11th	11th (2 Periods)		

Week	Class Day	EXPERIMENTS	Activity to be performed
12th	12th (2 Periods)	<b>EXPERIMENT - 6: To determine force constant of a spring using Hook's Law.</b>	Introduction of the instrument and demonstration of Experiment, Observation and calculation by students
13th	13th (2 Periods)		Record writing by the students, record checking and viva voce.
14th	14th (2 Periods)	<b>EXPERIMENT -7: To verify law of conservation of mechanical energy (PE to KE).</b>	Introduction of the instrument and demonstration of Experiment, Observation and calculation by students Record writing by the students, record checking and viva voce.
15th	15th (2 Periods)	<b>EXPERIMENT - 8: To measure room temperature and temperature of a hot bath using mercury thermometer and convert it into different scales.</b>	Introduction of the instrument and demonstration of Experiment, Observation and calculation by students Record writing by the students, record checking and viva voce.

**BOOK REFERENCE:**

- 1 Applied Physics-I (English) by Prof. Vinod Kumar Yadav

Concerned faculty:

  
30/7/23

  
HOD  
Dept. of Math & Sc  
G.P Kandhamal, Phulbani