GOVERNMENT POLYTECHNIC – KANDHAMAL, PHULBANI

Lesson Plan Engg. Physics Lab - Winter 2023

Discipline: Civil & Comp. Sc., **Semester**: 1st , **Name of Faculty :** Jiten Mishra		
Subject: Engg. Physics lab (Pr. 2a)	**No. of days/ week Class allotted:** 4	**From Date: 16.08.2023** **To Date: 11.12.2023**
Week	**Class Day**	**PRACTICAL**
1st	**1st**	INTRODUCTION TO PHYSICS LAB
	2nd	**EXPERIMENT- 1** (Volume of Solid Cylinder using Vernier callipers.) Introduction of the instrument and demonstration of Experiment
2nd	**1st**	Observation and calculation by students
	2nd	Record writing by the students, record checking and viva voce.
3rd	**1st**	**EXPERIMENT- 2** (Volume of Hollow Cylinder using Vernier callipers.) Demonstration of Experiment & Observation and calculation by students
	2nd	Observation and calculation by students
4th	**1st**	Record writing by the students, record checking and viva voce.
	2nd	**EXPERIMENT- 3** (Cross sectional area of a given wire using Screw gauge) Introduction of the instrument and demonstration of Experiment
5th	**1st**	Observation and calculation by students
	2nd	Record writing by the students, record checking and viva voce.
6th	**1st**	**EXPERIMENT- 4** (Volume of a given glass piece using Screw gauge.) Introduction of the instrument and demonstration of Experiment
	2nd	Record writing by the students, record checking and viva voce
7th	**1st**	**EXPERIMENT- 5** (Radius of curvature of convex surface using Spherometer) Introduction of the instrument and demonstration of Experiment

	2nd	Observation and calculation by students
8th	**1st**	Record writing by the students, record checking and viva voce.
	2nd	**EXPERIMENT- 6**(Radius of curvature of concave surface using Spherometer) Introduction of the instrument and demonstration of Experiment
9th	**1st**	Observation and calculation by students
	2nd	Record writing by the students, record checking and viva voce.
10th	**1st**	**EXPERIMENT- 7** (To determine the angle of prism) Introduction of the instrument and demonstration of Experiment
	2nd	Observation and calculation by students
11th	**1st**	Record writing by the students, record checking and viva voce.
	2nd	**EXPERIMENT- 8** (To determine the angle of minimum deviation by I -D curve method.) Introduction of the instrument and demonstration of Experiment
12th	**1st**	Observation and calculation by students
	2nd	Record writing by the students, record checking and viva voce.
13th	**1st**	**EXPERIMENT- 9** (To trace 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
	2nd	Observation and calculation by students
14th	**1st**	Record writing by the students, record checking and viva voce.
	2nd	**EXPERIMENT- 10** (To trace 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
15th	**1st**	Observation and calculation by students
	2nd	Record writing by the students, record checking and viva voce.