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		LESSON PLAN APPLIED PHYSICS -I LAB	Sill by
Name of	the Faculty:	GOVT.POLYTECHNIC,SONEPUR	
Silu Malli	ck,Lect.S-II(Phy kanta,Lab Asst.	Academic Year:2025-2026 ysics) Date:06.08.2025-04.12.2025	
Course No	o.:PR2	Subject: Applied Physics –I Lab	
Course Na	ame:Diploma	Department: Math & Sc.	
Year/Sem	:1st yr /1st Sem.	Branch- All	
Session: V	Vinter	Group-1,2,3,4,5,6,7	
WEEK	No.of days/per week-02	TOPICS TO BE COVERED	
	Class Day		
1	1	Introduction to physics lab regarding record maintenance, safety rules ,guidelines & other disciplinary activities inside lab.	
	2	Exp No1:To measure length, radius of a given cylinder, a test tube and a beaker using a Vernier calipers and find volume of each object Introduction of the apparatus & apparatus required, explanation of theory, procedure, tabulation, calculation & conclusion to students.	
2	3	Demonstration of experiment, experiment performed by the student	
	4	Exp No2:To determine diameter of a wire, a solid ball and thickness of cardboard using a screw gauge. Introduction of the apparatus & apparatus required, explanation theory, procedure, tabulation, calculation & conclusion to studenty.	of
3	5	Demonstration of experiment, experiment performed by the stud	
	6	Record Writing by the students, record checking and viva voice.	
4	6	Record Writing by the students, record checking and viva voice. Exp No3:To determine radius of curvature of a convex and a concave mirror/surface using a spherometer.	
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	8	Exp No3:To determine radius of curvature of a convex and a concave mirror/surface using a spherometer. Introduction of the apparatus & apparatus required, explanation theory ,procedure, tabulation, calculation & conclusion to student Demonstration of experiment, experiment performed by the student Exp No4: To verify triangle and parallelogram law of forces. Introduction of the apparatus & apparatus required, explanation of the apparatus & apparatus required, explanation of the apparatus & apparatus required.	of ts. ent
	8	Exp No3:To determine radius of curvature of a convex and a concave mirror/surface using a spherometer. Introduction of the apparatus & apparatus required, explanation theory ,procedure, tabulation, calculation & conclusion to studen Demonstration of experiment, experiment performed by the student Exp No4: To verify triangle and parallelogram law of forces.	of ts. ent

	12	Exp No5: To find the co-efficient of friction between wood and glass using a horizontal board.
		Introduction of the pparatus & apparatus required, explanation of theory, procedure, abulation, calculation & conclusion to students.
7	13	Demonstration of ϵ xperiment, experiment performed by the students.
	14	Exp No6: To determine force constant of a spring using Hook's Law.
		Introduction of the apparatus & apparatus required, explanation of theory ,procedure, tabulation, calculation & conclusion to students.
8	15	Demonstration of experiment, experiment performed by the
	16	Record Writing by the students, record checking and viva voice.
9	17	Exp No7: To verify law of conservation of mechanical energy (PE to KE).
		Introduction of the apparatus & apparatus required, explanation of theory, procedure, tabulation, calculation & conclusion to students.
	18	Demonstration of experiment, experiment performed by the students.
10	19	Exp No8: To find the moment of inertia of a flywheel.
		Introduction of the apparatus & apparatus required, explanation of theory, procedure, tabulation, calculation & conclusion to students.
	20	Demonstration of experiment, experiment performed by the students.
11	21	Record Writing by the students, record checking and viva voice.
-	22	Exp No9: To find the viscosity of a given liquid (Glycerin) by Stoke's law
		Introduction of the apparatus & apparatus required, explanation of theory, procedure, tabulation, calculation & conclusion to students
12	23	Demonstration of experiment, experiment performed by the students.
	24	Exp No10: To find the coefficient of linear expansion of the material of a rod.
		Introduction of the apparatus & apparatus required, explanation of theory, procedure, tabulation, calculation & conclusion to students
13	25	Demonstration of experiment, experiment performed by the students.
	26	students. Record Writing by the students, record checking and viva voice.

*	27	Exp No11: To determine atmospheric pressure at a place using Fortin's barometer.
		Introduction of the apparatus & apparatus required, explanation of theory, procedure, tabulation, calculation & conclusion to students.
		Demonstration of experiment, experiment performed by the
	28	Demonstration of experiment, experiment
		students. students.
15	29	students. Exp No12: To measure room temperature and temperature of a hot bath using mercury thermometer and convert it into different scales.
		Introduction of the apparatus & apparatus required, explanation of theory, procedure, tabulation, calculation & conclusion to students
		i and parformed by the
	30	Demonstration of experiment, experiment performed by the
		students.

Prepared by:

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HOD Math&Sc

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