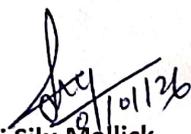


LESSON PLAN		
GOVT.POLYTECHNIC,SONEPUR		
Name of the Faculty: Silu Mallick,Lect.Stage-II(Physics) Hai Manikanta,Lab Asst.,Physics		Academic Year:2025-2026 Date:09.01.26 to 08.05.2026
Course No.:PR2		Subject: Applied Physics –II Lab
Course Name:Diploma		Department: Math & Sc.
Year/Sem:1 st yr /2 nd Sem.		Branch- All
Session: Summer		Group-1,2,3,4,5,6,7
WEEK	Periods per week-02	TOPICS TO BE COVERED
	Class Day	
1	1	Exp-1:To determine and verify the time period of a cantilever
	2	Exp-2:To determine velocity of ultrasonic in different liquids using ultrasonic interferometer.
2	3	Exp-2:To determine velocity of ultrasonic in different liquids using ultrasonic interferometer.
	4	Exp-3:To verify laws of reflection from a plane mirror/ interface.
3	5	Exp-4:To verify laws of refraction (Snell's law) using a glass slab
	6	Exp-4:To verify laws of refraction (Snell's law) using a glass slab
4	7	Exp-5:To determine focal length and magnifying power of a convex lens
	8	Exp-5:To determine focal length and magnifying power of a convex lens
5	9	Exp-6:To verify Ohm's law by plotting graph between current and potential difference.
	10	Exp-6:To verify Ohm's law by plotting graph between current and potential difference.
6	11	Exp-7:To verify laws of resistances in series and parallel combination.
	12	Exp-7:To verify laws of resistances in series and parallel combination.
7	13	Exp-8:To find the frequency of AC main using electrical vibrator
	14	Exp-8:To find the frequency of AC main using electrical vibrator
8	15	Exp-9:To verify Kirchhoff's law using electric circuits
	16	Exp-9:To verify Kirchhoff's law using electric circuits
9	17	Exp-10:To study the dependence of capacitance of a parallel plate

		capacitor on various factors and determines permittivity of air at a place.
	18	Exp-10: To study the dependence of capacitance of a parallel plate capacitor on various factors and determines permittivity of air at a place.
10	19	Exp-11: To find resistance of a galvanometer by half deflection method
	20	Exp-12: To convert a galvanometer into an ammeter. p
11	21	Exp-13: To convert a galvanometer into a voltmeter.
	22	Exp-14: To draw V-I characteristics of a semiconductor diode (Ge, Si) and determine its knee volt- age.
12	23	Exp-14: To draw V-I characteristics of a semiconductor diode (Ge, Si) and determine its knee volt- age.
	24	Exp-15: To verify inverse square law of radiations using a photo
13	25	Exp-15: To verify inverse square law of radiations using a photo
	26	Exp-16: To measure wavelength of a He-Ne/diode laser using a diffraction grating.
14	27	Exp-16: To measure wavelength of a He-Ne/diode laser using a diffraction grating.
	28	Exp-17: To measure numerical aperture (NA) of an optical fiber.
15	29	Exp-17: To measure numerical aperture (NA) of an optical fiber.
	30	Exp-18: Study of an optical projection system (OHP/LCD)- project report.

Prepared by:


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 Sri Hai Manikanta
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 HOD
 Math&Sc


 Academic co-ordinator