

LESSON PLAN FOR APPLIED PHYSICS LAB
GOVERNMENT POLYTECHNIC NAYAGADA

Discipline: Civil/Mech/ Elect./ CSE	1st Year	Name Of The Teaching Faculty: Miss Suchana Sarangi Sr. Lecturer Physics
Subject: Applied Physics Lab	No. Of Days/Week Class Allotted: 2	No. Of Weeks:32 From – 17.08.2026 to 17.04.2027
Week	Class Day	Lab Topics
1	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
	2	To measure length, radius of a given cylinder, a test tube and a beaker using a Vernier caliper and find volume of each object
2	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
	2	To measure length, radius of a given cylinder, a test tube and a beaker using a Vernier caliper and find volume of each object
3	1	To determine diameter of a wire, a solid ball and thickness of card board using a screw gauge.
	2	To determine diameter of a wire, a solid ball and thickness of card board using a screw gauge.
4	1	To determine diameter of a wire, a solid ball and thickness of card board using a screw gauge.
	2	To determine diameter of a wire, a solid ball and thickness of card board using a screw gauge.
5	1	Record Checking & Viva Voce
	2	Record Checking & Viva Voce
6	1	To determine radius of curvature of a convex mirror/surface using a spherometer.
	2	To determine radius of curvature of a convex mirror/surface using a spherometer.
7	1	To determine radius of curvature of a concave mirror/surface using a spherometer.
	2	To determine radius of curvature of a concave mirror/surface using a spherometer.
8	1	Record Checking & Viva Voce
	2	Record Checking & Viva Voce
9	1	To verify triangle and parallelogram law of forces.
	2	To verify triangle and parallelogram law of forces.
10	1	Record Checking & Viva Voce
	2	Record Checking & Viva Voce
11	1	To determine force constant of a spring using Hooke's Law.
	2	To determine force constant of a spring using Hooke's Law.
12	1	To find Moment of Inertia of a fly wheel.
	2	To find Moment of Inertia of a fly wheel.
13	1	To find Moment of Inertia of a fly wheel.
	2	To find Moment of Inertia of a fly wheel.
14	1	To verify laws of reflection from a plane mirror/interface.
	2	To verify laws of reflection from a plane mirror/interface.
15	1	To verify laws of refraction (Snell's law) using a glass slab.
	2	To verify laws of refraction (Snell's law) using a glass slab.
16	1	Record Checking & Viva Voce
	2	Record Checking & Viva Voce
17	1	To verify Ohm's law plotting graph between current and potential difference.
	2	To verify Ohm's law plotting graph between current and potential difference.
18	1	To verify laws of resistances in series and parallel combination.
	2	To verify laws of resistances in series and parallel combination.
19	1	Record Checking & Viva Voce
	2	Record Checking & Viva Voce
20	1	To verify Kirchhoff's law using electric circuits.
	2	To verify Kirchhoff's law using electric circuits.
21	1	To study the dependence of capacitance of a parallel plate capacitor on various factors and determines permittivity of air at a place.

21	2	To study the dependence of capacitance of a parallel plate capacitor on various factors and determines permittivity of air at a place.
22	1	To study the dependence of capacitance of a parallel plate capacitor on various factors and determines permittivity of air at a place.
	2	To study the dependence of capacitance of a parallel plate capacitor on various factors and determines permittivity of air at a place.
23	1	Record Checking & Viva Voce
	2	Record Checking & Viva Voce
24	1	To find resistance of a galvanometer by half deflection method.
	2	To find resistance of a galvanometer by half deflection method.
25	1	To convert a galvanometer into an ammeter.
	2	To convert a galvanometer into an ammeter.
26	1	Record Checking & Viva Voce
	2	Record Checking & Viva Voce
27	1	To convert a galvanometer into a voltmeter.
	2	To convert a galvanometer into a voltmeter.
28	1	Record Checking & Viva Voce
	2	Record Checking & Viva Voce
29	1	To draw V-I characteristics of a semiconductor diode (Ge,Si) and determine its knee voltage.
	2	To draw V-I characteristics of a semiconductor diode (Ge,Si) and determine its knee voltage.
30	1	Record Checking & Viva Voce
	2	Record Checking & Viva Voce
31	1	DOUBT CLEARING SESSION
	2	DOUBT CLEARING SESSION
32	1	GRAND VIVA
	2	GRAND VIVA

Sarangi

31.07.2026

Sr. Lect. Physics