

Discipline: Math & Sc	Semester: 1 ST /2 ND	Name of the teaching faculty: Satya Narayan Tripathy (Sr Lect. In Physics)
Subject: Engg. Physics Lab (Pr.2a)	No. of days/week class allotted: 04	Semester from date: 16.8.2023 To date: 11.12.2023 No. of weeks: 15
Subject Course Outcomes		CO 1: Use instruments such as Vernier Caliper, Screw Gauge & Spherometer to measure various physical quantities for a given specimen
		CO 2: Use of simple pendulum to determine time period and acceleration due to gravity
		CO 3: Verify OHM's Laws using various electrical devices.
		CO 4: Determine the properties of a magnet using Bar magnet.
Week	Class Day	Practicals
1 st	1 st 2 nd 3 rd & 4 th	To find volume of a solid cylinder using a Vernier Calipers
2 nd	1 st & 2 nd	To find volume of a solid cylinder using a Vernier Calipers
	3 rd & 4 th	To find volume of a hollow cylinder using a Vernier Calipers
3 rd	1 st 2 nd 3 rd & 4 th	To find volume of a hollow cylinder using a Vernier Calipers
4 th	1 st 2 nd 3 rd & 4 th	To find the cross sectional area of a wire using screw gauge
5 th	1 st & 2 nd	To find the cross sectional area of a wire using screw gauge
	3 rd & 4 th	To find the thickness and volume of a glass piece using a screw gauge
6 th	1 st 2 nd 3 rd & 4 th	To find the thickness and volume of a glass piece using a screw gauge
7 th	1 st 2 nd 3 rd & 4 th	To determine the radius of curvature of convex surface using a Spherometer
8 th	1 st & 2 nd	To determine the radius of curvature of convex surface using a Spherometer
	4 th & 3 rd	To determine the radius of curvature of concave surface using a Spherometer.
9 th	1 st 2 nd 3 rd & 4 th	To determine the radius of curvature of concave surface using a Spherometer
10 th	1 st 2 nd 3 rd & 4 th	To verify Ohm's Law by Ammeter – Voltmeter method
11 th	1 st & 2 nd	To verify Ohm's Law by Ammeter – Voltmeter method
	3 rd & 4 th	To trace lines of force due to a bar magnet with North pole pointing North and locate the neutral points
12 th	1 st 2 nd 3 rd & 4 th	To trace lines of force due to a bar magnet with North pole pointing North and locate the neutral point
13 th	1 st 2 nd 3 rd & 4 th	To trace lines of force due to a bar magnet with North pole pointing South and locate the neutral points
14 th	1 st & 2 nd	To trace lines of force due to a bar magnet with North pole pointing South and locate the neutral points
	3 rd & 4 th	To find the time period of a simple pendulum and determine acceleration due to gravity
15 th	1 st 2 nd 3 rd & 4 th	To find the time period of a simple pendulum and determine acceleration due to gravity

HOD (Math & Sc)

Satya Narayan Tripathy
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