Discipline: Math & Sc	Semester: 1st	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: 25.10.2021 To date: 14.2.2022 No. of weeks: 15
Subject Course Outcomes		CO 1: Identify physical quantities& represent them as scalars & vectors to solve related problems.
		CO 2: Understand concepts of rest, motion & projectile motion & hence solve related problems.
		CO 3: Define work, Friction & solve related problems
		CO 4: Define & use the concepts of gravitation, wave motion, heat & optics to solve real life problems.
		CO 5: Explain the concepts of electrostatics, magneto statics, current & magnetism in the context of engineering.
		CO 6: Understand LASER & its Applications.
Week	Class Day	Practicals
1st	1st 2nd 3rd & 4th	To find volume of a solid cylinder using a Vernier Calipers
2nd	1st & 2nd	To find volume of a solid cylinder using a Vernier Calipers
	3rd & 4th	To find volume of a hollow cylinder using a Vernier Calipers
3rd	1st 2nd 3rd & 4th	To find volume of a hollow cylinder using a Vernier Calipers
4th	1st 2nd 3rd & 4th	To find the cross sectional area of a wire using screw gauge
5th	1st & 2nd	To find the cross sectional area of a wire using screw gauge
	3rd & 4th	To find the thickness and volume of a glass piece using a screw gauge
6th	1st 2nd 3rd & 4th	To find the thickness and volume of a glass piece using a screw gauge
7th	1st 2nd 3rd & 4th	To determine the radius of curvature of convex surface using a Spherometer
8th	1st & 2nd	To determine the radius of curvature of convex surface using a Spherometer
	4th & 3rd	To determine the radius of curvature of concave surface using a Spherometer.
9th	1st 2nd 3rd & 4th	To determine the radius of curvature of concave surface using a Spherometer
10th	1st 2nd 3rd & 4th	To verify Ohm's Law by Ammeter – Voltmeter method
11th	1st & 2nd	To verify Ohm's Law by Ammeter – Voltmeter method
	3rd & 4th	To trace lines of force due to a bar magnet with North pole pointing North and locate the neutral points
12th	1st 2nd 3rd & 4th	To trace lines of force due to a bar magnet with North pole pointing North and locate the neutral point
13th	1st 2nd 3rd & 4th	To trace lines of force due to a bar magnet with North pole pointing South and locate the neutral points
14th	1st& 2nd	To trace lines of force due to a bar magnet with North pole pointing South and locate the neutral points
	3rd& 4th	To find the time period of a simple pendulum and determine acceleration due to gravity
15th	1st 2nd 3rd & 4th	To find the time period of a simple pendulum and determine acceleration due to gravity

Satya 25.10.21

HOD (Math & Sc)

Satya 25.10.21

Satya Narayan Tripathy
Lect. Physics GP Kraput