Math & Sc	Semester: 1 st	Name of the teaching faculty: Satya Narayan Tripathy (Sr Lect. In Physics)
Subject: Engg. Physics Lab (Pr.2a)	No. of days/week	Semester from date: 25.10.2022 To date: 31.1.2023
	class allotted: 04	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	CO 2: Understand concepts of rest, motion & projectile motion & hence solve related problems.
1 st	1 st 2 nd 3 rd & 4 th	CO 3: Define work, Friction & solve related problems
	1 st & 2 nd	CO 4: Define & use the concepts of gravitation, wave motion, heat & optics to solve real life problems
2 nd	3 rd & 4 th	CO 5: Explain the concepts of electrostatics, magneto statics, current & magnetism in the context of engineering.
3 rd	$1^{st} 2^{nd} 3^{rd} \& 4^{th}$	CO 6: Understand LASER & its Applications.
4 th	$1^{st} 2^{nd} 3^{rd} \& 4^{th}$	To find the cross sectional area of a wire using screw gauge
-	1 st & 2 nd	To find the cross sectional area of a wire using screw gauge
5 th	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
	1 st & 2 nd	To determine the radius of curvature of convex surface using a Spherometer
8 th	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
	1 st & 2 nd	To verify Ohm's Law by Ammeter - Voltmeter method
11 th	3 rd & 4 th	To trace lines of force due to a bar magnet with North pole pointing North and locate the neutral points
	1st and ard o th	To trace lines of force due to a bar magnet with North pole
12 th	1 2 3 & 4	pointing North and locate the neutral point

14	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

8 10/22 HOD (Math & Sc)

10/22

Satya Narayan Tripathy Sr Lect. Physics GP Kraput