

# KIIT POLYTECHNIC, BHUBANESWAR

## LESSON PLAN

Session (2023 -2024)

<b>Discipline:</b> CSE/ Electrical/ ETC	<b>Semester:</b> 2nd, Summer /2024	<b>Name of the faculty:</b> Sukanta Kumar Rout <b>Email Id:</b> rsukantfpy@kp.kiit.ac.in
<b>Subject:</b> Engineering Physics Practical (Pr-2a)	<b>No. of Days/week:</b> 02 (2 periods / Day) Experiments will be performed in small groups of 5 to 6 students	<b>Start Date:</b> 29 /01/2024 <b>End Date:</b> 14/05/2024

Week	Class Day	Practical Topics
1 <sup>st</sup>	1st	Familiarization with various shapes, measuring instruments like slide calliper, screw gauge and spherometer
	2nd	Find the least count of the different measuring instruments.
2nd	1st	<ul style="list-style-type: none"><li>To Find the Cross-Sectional Area of a Wire Using Screw Gauge</li><li>To Find the Volume of a Solid Cylinder Using a Vernier Calipers</li><li>To Determine the Radius of Curvature of a Convex Surface Using a Spherometer</li><li>To Verify Ohm's Law by Ammeter – Voltmeter Method</li></ul>
	2nd	<ul style="list-style-type: none"><li>To Find the Cross-Sectional Area of a Wire Using Screw Gauge</li><li>To Find the Volume of a Solid Cylinder Using a Vernier Calipers</li><li>To Determine the Radius of Curvature of a Convex Surface Using a Spherometer</li><li>To Verify Ohm's Law by Ammeter – Voltmeter Method</li></ul>
3rd	1st	<ul style="list-style-type: none"><li>To Find the Cross-Sectional Area of a Wire Using Screw Gauge</li><li>To Find the Volume of a Solid Cylinder Using a Vernier Calipers</li><li>To Determine the Radius of Curvature of a Convex Surface Using a Spherometer</li><li>To Verify Ohm's Law by Ammeter – Voltmeter Method</li></ul>

	2nd	<ul style="list-style-type: none"> <li>• To Find the Cross-Sectional Area of a Wire Using Screw Gauge</li> <li>• To Find the Volume of a Solid Cylinder Using a Vernier Calipers</li> <li>• To Determine the Radius of Curvature of a Convex Surface Using a Spherometer</li> <li>• To Verify Ohm's Law by Ammeter – Voltmeter Method</li> </ul>
4th	1st	<ul style="list-style-type: none"> <li>• To Find the Cross-Sectional Area of a Wire Using Screw Gauge</li> <li>• To Find the Volume of a Solid Cylinder Using a Vernier Calipers</li> <li>• To Determine the Radius of Curvature of a Convex Surface Using a Spherometer</li> <li>• To Verify Ohm's Law by Ammeter – Voltmeter Method</li> </ul>
	2nd	<ul style="list-style-type: none"> <li>• Repeat Class/Defaulter</li> </ul>
5th	1st	<ul style="list-style-type: none"> <li>• To Find the Volume of a Hollow Cylinder Using a Vernier Calipers</li> <li>• To Find the Thickness and Volume of a Glass Piece Using Screw Gauge</li> <li>• To Determine the Radius of Curvature of a Concave Surface Using a Spherometer</li> <li>• To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing North and Locate the Neutral Points</li> </ul>
	2nd	<ul style="list-style-type: none"> <li>• To Find the Volume of a Hollow Cylinder Using a Vernier Calipers</li> <li>• To Find the Thickness and Volume of a Glass Piece Using Screw Gauge</li> <li>• To Determine the Radius of Curvature of a Concave Surface Using a Spherometer</li> <li>• To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing North and Locate the Neutral Points</li> </ul>
6th	1st	<ul style="list-style-type: none"> <li>• To Find the Volume of a Hollow Cylinder Using a Vernier Calipers</li> <li>• To Find the Thickness and Volume of a Glass Piece Using Screw Gauge</li> <li>• To Determine the Radius of Curvature of a Concave Surface Using a Spherometer</li> <li>• To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing North and Locate the Neutral Points</li> </ul>
	2nd	<ul style="list-style-type: none"> <li>• To Find the Volume of a Hollow Cylinder Using a Vernier Calipers</li> <li>• To Find the Thickness and Volume of a Glass Piece Using Screw Gauge</li> </ul>

		<ul style="list-style-type: none"> <li>• To Determine the Radius of Curvature of a Concave Surface Using a Spherometer</li> <li>• To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing North and Locate the Neutral Points</li> </ul>
7th	1st	<ul style="list-style-type: none"> <li>• To Find the Volume of a Hollow Cylinder Using a Vernier Calipers</li> <li>• To Find the Thickness and Volume of a Glass Piece Using Screw Gauge</li> <li>• To Determine the Radius of Curvature of a Concave Surface Using a Spherometer</li> <li>• To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing North and Locate the Neutral Points</li> </ul>
	2nd	<ul style="list-style-type: none"> <li>• Repeat Class</li> </ul>
8th	1st	<ul style="list-style-type: none"> <li>• To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing South and Locate the Neutral Points</li> <li>• To Determine the Angle of Prism</li> <li>• To Find the Time Period of a Simple Pendulum and Determine Acceleration Due to Gravity (g)</li> <li>• To Determine the Angle of Minimum Deviation By I – D Curve Method</li> </ul>
	2nd	<ul style="list-style-type: none"> <li>• To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing South and Locate the Neutral Points</li> <li>• To Determine the Angle of Prism</li> <li>• To Find the Time Period of a Simple Pendulum and Determine Acceleration Due to Gravity (g)</li> <li>• To Determine the Angle of Minimum Deviation By I– d Curve Method</li> </ul>
9th	1st	<ul style="list-style-type: none"> <li>• To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing South and Locate the Neutral Points</li> <li>• To Determine the Angle of Prism</li> <li>• To Find the Time Period of a Simple Pendulum and Determine Acceleration Due to Gravity (g)</li> <li>• To Determine the Angle of Minimum Deviation By I – D Curve Method</li> </ul>
	2nd	<ul style="list-style-type: none"> <li>• To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing South and Locate the Neutral Points</li> <li>• To Determine the Angle of Prism</li> </ul>

		<ul style="list-style-type: none"> <li>• To Find the Time Period of a Simple Pendulum and Determine Acceleration Due to Gravity (g)</li> <li>• To Determine the Angle of Minimum Deviation By I – D Curve Method</li> </ul>
10th	1st	<ul style="list-style-type: none"> <li>• To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing South and Locate the Neutral Points</li> <li>• To Determine the Angle of Prism</li> <li>• To Find the Time Period of a Simple Pendulum and Determine Acceleration Due to Gravity (g)</li> <li>• To Determine the Angle of Minimum Deviation By I – D Curve Method</li> </ul>
11th	2nd	Repeat Class
12th	1st	Repeat Class for experiment 1,2 & 3
	2nd	Repeat Class for experiment 4,5 & 6
13th	1st	Repeat Class for experiment 7,8 & 9
	2nd	Repeat Class for experiment 10,11 & 12
14th	1st	Practice Test
	2nd	Practice Test