## KIIT POLYTECHNIC, BHUBANESWAR

## **LESSON PLAN**

Session (2023 -2024)

Discipline: Civil/	Semester: 1st,	Name of the faculty:
Mechanical/ Metallurgy	W (2022	Sradhanjali Das
	Winter /2023	Lecturer
		Email Id:
		sradhanjalifpy@kp.kiit.ac.in
Subject: Engineering	No. of Days/week: 02	<b>Start Date:</b> 16/08/2023
Physics Practical (Pr-2a)	(2 periods / Day)	<b>End Date:</b> 09/01/2024
	Experiments will be	
	performed in small groups	
	of 5 to 6 students	

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> <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> <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> <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> </ul>

		To Verify Ohm's Law by Ammeter – Voltmeter Method
	2nd	To Find the Cross-Sectional Area of a Wire Using Screw Gauge
		To Find the Volume of a Solid Cylinder Using a Vernier Calipers
		To Determine the Radius of Curvature of a Convex Surface Using a
		Spherometer
		To Verify Ohm's Law by Ammeter – Voltmeter Method
4th	1st	To Find the Cross-Sectional Area of a Wire Using Screw Gauge
		To Find the Volume of a Solid Cylinder Using a Vernier Calipers
		To Determine the Radius of Curvature of a Convex Surface Using a
		Spherometer
		To Verify Ohm's Law by Ammeter – Voltmeter Method
	2nd	Repeat Class/Defaulter
5th	1st	To Find the Volume of a Hollow Cylinder Using a Vernier Calipers
301	150	<ul> <li>To Find the Thickness and Volume of a Glass Piece Using Screw</li> </ul>
		Gauge
		<ul> <li>To Determine the Radius of Curvature of a Concave Surface Using a</li> </ul>
		Spherometer
		<ul> <li>To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing</li> </ul>
		North and Locate the Neutral Points
	2nd	To Find the Volume of a Hollow Cylinder Using a Vernier Calipers
	2110	
		To Find the Thickness and Volume of a Glass Piece Using Screw  Course
		Gauge To Determine the Realize of Countries of a Countries Starfe or Heise of
		To Determine the Radius of Curvature of a Concave Surface Using a  Subscription
		Spherometer  To Trace Lines of Force Due to A Par Magnet with North Pole Pointing
		To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing  North and Legate the Noutral Points.
C+b	1c+	North and Locate the Neutral Points
6th	1st	To Find the Volume of a Hollow Cylinder Using a Vernier Calipers  To Find the Third and Alvahard for Chapter Halington Color Picture Colo
		To Find the Thickness and Volume of a Glass Piece Using Screw
		Gauge
		To Determine the Radius of Curvature of a Concave Surface Using a
		Spherometer  To To the CE of the A.B. Market Market B. L. D. C.
		To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing
		North and Locate the Neutral Points
	2nd	To Find the Volume of a Hollow Cylinder Using a Vernier Calipers
		To Find the Thickness and Volume of a Glass Piece Using Screw

		<ul> <li>Gauge</li> <li>To Determine the Radius of Curvature of a Concave Surface Using a</li> </ul>
		Spherometer  To The Mark Street A. D. D. Mark Street A. D. Mark Street A. D. Mark Street A. D. Mark St
		To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing
		North and Locate the Neutral Points
7th	1st	To Find the Volume of a Hollow Cylinder Using a Vernier Calipers
		To Find the Thickness and Volume of a Glass Piece Using Screw Gauge
		<ul> <li>To Determine the Radius of Curvature of a Concave Surface Using a</li> </ul>
		Spherometer
		<ul> <li>To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing</li> </ul>
		North and Locate the Neutral Points
	2nd	
	Zilu	Repeat Class
8th	1st	<ul> <li>To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing South and Locate the Neutral Points</li> </ul>
		To Determine the Angle of Prism
		To Find the Time Period of a Simple Pendulum and Determine
		Acceleration Due to Gravity (g)
		To Determine the Angle of Minimum Deviation By I – D Curve Method
	2nd	<ul> <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>
		To Find the Time Period of a Simple Pendulum and Determine
		Acceleration Due to Gravity (g)
		To Determine the Angle of Minimum Deviation By I – d Curve Method
9th	1st	<ul> <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>
		-
		To Find the Time Period of a Simple Pendulum and Determine  A coloration Due to Creative (a)
		Acceleration Due to Gravity (g)
		<ul> <li>To Determine the Angle of Minimum Deviation By</li> <li>I – D Curve Method</li> </ul>
	2nd	To Trace Lines of Force Due to A Bar Magnet with North Pole Pointing     South and Locate the Neutral Points  To Determine the Anale of Priore
		To Determine the Angle of Prism

		To Find the Time Period of a Simple Pendulum and Determine
		Acceleration Due to Gravity (g)
		To Determine the Angle of Minimum Deviation By I – D Curve Method
10th	1st	<ul> <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>
		To Find the Time Period of a Simple Pendulum and Determine
		Acceleration Due to Gravity (g)
		To Determine the Angle of Minimum Deviation By I – D Curve Method
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