LESSON PLAN

SUBJECT: ENGG. PHYSICS LAB.

BRANCH: COMMON

SEMESTER: 1ST (2022-23)

NAME OF THE FACULTY: ASEEMA BARIK



GOVERNMENT POLYTECHNIC, BHADRAK

HOD Math& Sc

Sc

Academic Coordinator

Principal

Govt. Polytechnic, Bhadrak

GOVT. POLYTECHNIC, BHADRAK

AT: TENTULIGADIA, VIA: RAHANDIA, DIST: BHADRAK, PIN: 756135

E-mail: principalgpbhadrak@gmail.com Tel: 9438806922

LESSON PLAN FOR WINTER SEMESTER – 2022 Dept. of Math & Science, Govt.Polytechnic, Bhadrak

Name of the Faculty : Aseema Barik

Course Code: Pr-2a Theory: Engg. Phy. Lab Total Periods: 60

Examination: Winter(2022)

Sem: 1st

Sessional: 50 End Sem. Exam: 50 Total Mark:100

Class Start: 25.10.2022

Discipline:	Semester: 1 st (2022)	Name of the Teaching Faculty : Aseema Barik
Subject: Engineering Physics Lab	No. of Days/per week class allotted:2 days/ 4 classes	Semester from date: 25.10.2022 To Date:30.01.2023 No. of Weeks: 15
Week	Class Day	Practical/ Topics
1 st	1 st	 Importance of experimentation and accurate measurement Instruction of maintaining lab record
	2 nd	 Introduction to vernier caliper, screw gauge, spherometer Demonstration of measurement using vernier caliper
	3 rd	 Measurement of diameter of solid cylinder using vernier caliper
2 nd	1 st 2 nd	 Measurement of height of solid cylinder using vernier caliper Discussion on working formula, precautions and record writing
	3 rd	 Dictation/instruction on the record writing Correction of mock record
3 rd	1 st	 Measurement of height, inner diameter and outer diameter of hollow cylinder
	3 rd	 Measurement of height, inner diameter and outer diameter of hollow cylinder Discussion on working formula and precautions

4 th	1 st	Demonstration of measurement using screw gauge and spherometer
	2 nd	
	3 rd	Demonstration of drawing of magnetic lines of force
	4 th	
5 th	1 st	■ Lab practice by the students of group ✓ Alpha — Cross sectional area of thin wire by screw gauge ✓ Beta — Radius of curvature of concave surface using spherometer ✓ Gamma — Drawing magnetic lines of force with magnetic north pointing geographic north
	2 nd	
	3 rd	■ Lab practice by the students of group ✓ Alpha – Drawing magnetic lines of force with magnetic north pointing geographic north ✓ Beta - Cross sectional area of thin wire by screw gauge ✓ Gamma – Radius of curvature of concave surface using spherometer
	4 th	
6 th	1 st	■ Lab practice by the students of group ✓ Alpha – Radius of curvature of concave surface using spheromete
	2 nd	 ✓ Beta - Drawing magnetic lines of force with magnetic north pointing geographic north ✓ Gamma – Cross sectional area of thin wire by screw gauge
	3 rd	 Re-practice on the basis of necessity Record correction
	4 th	■ Viva
7 th	1 st	■ Lab practice by the students of group ✓ Alpha – Drawing magnetic lines of force with magnetic
	2 nd	north pointing geographic south ✓ Beta – Thickness and volume of glass piece using screw gauge ✓ Gamma – Radius of curvature of convex surface using
	3 rd	spherometer Lab practice by the students of group
		✓ Alpha – Radius of curvature of convex surface using spherometer
	4 th	 ✓ Beta - Drawing magnetic lines of force with magnetic north pointing geographic south ✓ Gamma –Thickness and volume of glass piece using screw gauge

8 th	1 st	 Lab practice by the students of group ✓ Alpha – Thickness and volume of glass piece using screw
		gauge
	2 nd	✓ Beta - Radius of curvature of convex surface using
	2	spherometer
		✓ Gamma – Drawing magnetic lines of force with magnetic
		north pointing geographic south
	3 rd	 Re-practice on the basis of necessity
	4 th	Record correction
9 th	4 et	■ Viva
9""	1 st	 Re-practice on the basis of necessity
1	2 nd	Record correction
		■ Viva
	3 rd	Demonstration of measurement of angle of prism and related theory
	4 th	
10 th	1 st	Practice of determination of angle of prism by the students
-	2 nd	
	2	
	3 rd	Practice of determination of angle of prism by the students
	4 th	and the state of t
11 th	1 st	 Refraction trough prism and demonstration of determination of angle of
	2 nd	minimum deviation by I~D curve method
	3 rd	Practice of determination of angle of minimum deviation by the students
	4 th	
12 th	1 st	Practice of determination of angle of minimum deviation by the students
	2 nd	a state of the sta
	3 rd	Record writing
		■ Viva
	4 th	
13 th	1 st	Demonstration of determination of time period of simple pendulum and value
	2 nd	of g
	3 rd	Practice of determination of time period of simple pendulum and value of g b
	4 th	the students
14 th	1 st	Practice of determination of time period of simple pendulum and value of g b
	2 nd	the students

	3 rd 4 th	Record checking and viva
15 th	1 st	Record checking and viva
	3 rd	■ Record checking and viva