

UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA**Academic Lesson Plan for 1st Semester – 2022 (Winter)**

Name of the teaching faculty: Sri V. Naveen Kumar
PTGF Lecturer (Physics)

Dept.: Department of Mathematics & Science

Semester : 1st

Subject : Practical 2A : Engg. Physics Laboratory

No of Periods per week: 4,

Total Periods: 60,

End semester Exam.: 50 Marks,

Internal assessment: 50 Marks,

Total Marks: 100 Marks

Week	Period	Expt. No	Practical
1 st	1 st & 2 nd	Expt. 1	Introduction to Physics lab, about safety measures, about maintenance of practical records. Introduction to the teachers about use of different lab equipments and how to handle them safely. Demonstrate to find the cross sectional area of a wire using Screw Gauge.
	3 rd & 4 th	Expt. 1	Expt.-1 conduct by students and Discussion of Viva question.
2 nd	1 st & 2 nd	Expt. 2	Demonstrate to find the thickness and volume of a glass piece using a screw gauge. and Checking of Practical Record of Expt. 1.
	3 rd & 4 th	Expt. 2	Expt.-2 conduct by students and Discussion of Viva question.
3 rd	1 st & 2 nd	Expt. 3	Demonstrate to find the volume of a hollow cylinder by using a Vernier Caliper and Checking of Practical Record of expt. 2.
	3 rd & 4 th	Expt. 3	Expt.3 conduct by students and Discussion of Viva question.
4 th	1 st & 2 nd	Expt. 4	Demonstrate to find the volume of a solid cylinder by using a Vernier Caliper. and Checking of Practical Record of expt. 3
	3 rd & 4 th	Expt. 4	Expt.4 conduct by students and Discussion of Viva question.
5 th	1 st & 2 nd	Expt. 5	Demonstrate to determine the radius of curvature of concave surface using a Spherometer and Checking of Practical Record. 4
	3 rd & 4 th	Expt. 5	Expt.5 conduct by students and Discussion of Viva question
6 th	1 st & 2 nd	Expt. 6	Demonstrate to determine the radius of curvature of convex surface using a Spherometer and Checking of Practical Record of expt. 5
	3 rd & 4 th	Expt. 6	Expt.6 conduct by students and Discussion of Viva question

7 th	1 st & 2 nd	Expt. 7	Demonstrate to find the time period of a simple pendulum and determine acceleration due to gravity and Checking of Practical Record 6
	3 rd & 4 th	Expt. 7	Expt. 7 conduct by students. Discussion of Viva question
8 th	1 st & 2 nd	Expt. 8	Demonstrate to determine the angle of Prism. and Checking of Practical Record 7
	3 rd & 4 th	Expt. 8	Expt. 8 conduct by students. Discussion of Viva question
9 th	1 st & 2 nd	Expt. 9	Demonstrate to determine the angle of minimum deviation by I D curve method and Checking of Practical Record 8
	3 rd & 4 th	Expt. 9	Expt. 9 conduct by students. Discussion of Viva question
10 th	1 st & 2 nd	Expt 10	Demonstrate To trace lines of force due to a bar magnet with north pole pointing north and locate the neutral point and Checking of Practical Record 9
	3 rd & 4 th	Expt 10	Expt. 10 conduct by students. and Discussion of Viva question.
11 th	1 st & 2 nd	Expt. 11	Demonstrate to trace lines of force due to a bar magnet with south pole pointing south and locate the neutral point and Checking of Practical Record 10
	3 rd & 4 th	Expt. 11	Expt. 11 conduct by students. and Discussion of Viva question.
12 th	1 st & 2 nd	Expt. 12	Verify ohms law. and Checking of Practical Record 11
	3 rd & 4 th	Expt. 12	Expt. 12 conduct by students. and Discussion of Viva question.
13 th	1 st & 2 nd	Expt 1,2,3,4	Checking of Practical Record of expt. 12 .REVISION
	3 rd & 4 th		REVISION
14 th	1 st & 2 nd	Expt 5,6,7,8	REVISION
	3 rd & 4 th		REVISION
15 th	1 st & 2 nd	Expt 9,10,11, 12	REVISION
	3 rd & 4 th		REVISION

Sri V. Naveen Kumar
 (PTGF) Lecturer in Physics
 Dept. of Mathematics & Science,
 UGMIT, Rayagada