

**UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA****Academic Lesson Plan for 1st Semester – 2021 (Winter)**

Name of the teaching faculty: Sri V.Naveen Kumar

PTGF Lecturer (Physics)

Dept.: Department of Mathematics &amp; Science

Semester : 1st

Subject : Practical 2A : Engg. Physics Laboratory

No of Periods per week: 4,

Total Periods: 60,

End semester Exam.: 50 Marks,

Sessional: 50 Marks,

Total Marks: 100 Marks

Week	Period	Experiment	PRACTICAL
1st	1 <sup>st</sup>		Introduction to Physics lab, about safety measures, about maintenance of practical records.
	2 <sup>nd</sup>		Introduction to the students about use of different lab equipments and how to handle them safely.
	3 <sup>rd</sup>	Exp.1	To find the cross sectional area of a wire using screw Gauge
	4 <sup>th</sup>		Checking of rough practical record
2nd	1 <sup>st</sup>		Expt. Conducted by the Students
	2 <sup>nd</sup>		Checking of practical record and discussion of Viva question of experiment 1
	3 <sup>rd</sup>	Exp.2	to find the thickness and volume of a glass piece using a screw guage
	4 <sup>th</sup>		Expt. Conducted by the Students
3rd	1 <sup>st</sup>		Checking of rough practical record
	2 <sup>nd</sup>		Checking of practical record
	3 <sup>rd</sup>		Discussion of viva questions of expt. 2

	4 <sup>th</sup>		Checking of practical record of both first and second experiments
4 <sup>th</sup>	1 <sup>st</sup>	Exp.3	to find the volume of a cylinder using a vernier calliper
	2 <sup>nd</sup>		Expt. Conducted by the Students
	3 <sup>rd</sup>		Expt. Conducted by the Students
	4 <sup>th</sup>		Checking of rough practical record
5 <sup>th</sup>	1 <sup>st</sup>		Checking of practical record
	2 <sup>nd</sup>		Discussion of viva questions of expt.3
	3 <sup>rd</sup>		Checking of practical record
	4 <sup>th</sup>	Exp.4	to find the volume of a hollow cylinder using a vernier calliper
6 <sup>th</sup>	1 <sup>st</sup>		Expt. Conducted by the Students
	2 <sup>nd</sup>		Expt. Conducted by the Students
	3 <sup>rd</sup>		Checking of rough practical record
	4 <sup>th</sup>		Checking of practical record
7 <sup>th</sup>	1 <sup>st</sup>		Discussion of Viva question of experiment 4
	2 <sup>nd</sup>	Exp.5	To determine the radius of curvature of concave surface using a spherometer
	3 <sup>rd</sup>		Expt. Conducted by the Students
	4 <sup>th</sup>		Expt. Conducted by the Students

8th	1 <sup>st</sup>		Checking of rough practical record
	2 <sup>nd</sup>		Checking of practical record
	3 <sup>rd</sup>		Checking of practical records and discussion of viva questions of expt.5
	4 <sup>th</sup>	Exp.6	To determine the radius of curvature of convex surface using a spherometer
9th	1 <sup>st</sup>		Expt. Conducted by the Students
	2 <sup>nd</sup>		Expt. Conducted by the Students
	3 <sup>rd</sup>		Checking of rough practical record
	4 <sup>th</sup>		Checking of practical record
10th	1 <sup>st</sup>		Checking of practical records and discussion of viva questions of experiment 6
	2 <sup>nd</sup>		Discussion of viva questions of expt.6
	3 <sup>rd</sup>	Exp.7	To find the time period of a simple pendulum and determine acceleration due to gravity
	4 <sup>th</sup>		Expt. Conducted by the Students
11th	1 <sup>st</sup>		Expt. Conducted by the Students
	2 <sup>nd</sup>		Checking of rough practical record
	3 <sup>rd</sup>		Checking of practical records and discussion of viva questions of expt.7
	4 <sup>th</sup>	Exp.8	To determine the angle of prism
12th	1 <sup>st</sup>		Expt. Conducted by the Students
	2 <sup>nd</sup>		Expt. Conducted by the Students

	3 <sup>rd</sup>		Checking of rough practical record
	4 <sup>th</sup>		Checking of practical records and discussion of viva questions of expt.8
13 <sup>th</sup>	1 <sup>st</sup>	Exp.9	To determine the angle of minimum deviation by I D curve method
	2 <sup>nd</sup>		Expt. Conducted by the Students
	3 <sup>rd</sup>		Expt. Conducted by the Students
	4 <sup>th</sup>		Checking of rough practical record
14 <sup>th</sup>	1 <sup>st</sup>		Checking of practical record
	2 <sup>nd</sup>		Checking of practical record
	3 <sup>rd</sup>		Discussion of viva questions of expt.9
	4 <sup>th</sup>	Exp.10	To trace lines of force due to a bar magnet with north pole pointing north and locate the neutral point
15 <sup>th</sup>	1 <sup>st</sup>		Expt. Conducted by the Students
	2 <sup>nd</sup>		Expt. Conducted by the Students
	3 <sup>rd</sup>		Checking of rough practical record
	4 <sup>th</sup>		Checking of practical records and discussion of viva questions of expt.10

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