

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

Name of the teaching faculty: Sri Bhabani Sankar Patnaik
Guest Lecturer (Physics)

Dept.: Department of Mathematics & Science

Semester : 1st

Subject : Applied Physics Laboratory

No of Periods per week: 2

Total Periods: 30

End semester Exam.: 25 Marks

Sessional: 25 Marks,

Week	Period	Experiment	PRACTICAL
1st	1 st		Introduction to Physics lab, about safety measures, about maintenance of practical records.
	2 nd		Introduction to the students about use of different lab equipments and how to handle them safely.
2nd	1 st	Expt-1	To measure length, radius of a given cylinder, a test tube and a beaker using a vernier caliper and find the volume of each object.
	2 nd		Checking rough practical record.
3rd	1 st		Discussing viva question and record correction.
	2 nd	Expt-2	To determine diameter of a wire, a solid ball and thickness of cardboard using screw gauge.
4th	1 st		Checking rough practical record.
	2 nd		Discussing viva question and record correction.

5th	1 st	Expt-3	To determine radius of curvature of a convex and concave mirror/surface using a spherometer.
	2 nd		Checking rough practical record.
6th	1 st		Discussing viva question and record correction.
	2 nd	Expt-4	To verify triangle and parallelogram law of force.
7th	1 st		Checking rough practical record.
	2 nd		Discussing viva question and record correction.
8th	1 st	Expt-5	To find the coefficient of friction between wood and glass using a horizontal board.
	2 nd		Checking rough practical record.
9th	1 st		Discussing viva question and record correction.
	2 nd	Expt-6	To determine force constant of a spring using Hook's law.
10th	1 st		Checking rough practical record.
	2 nd		Discussing viva question and record correction.
11th	1 st	Expt-7	To verify law of conservation of mechanical energy(PE to KE).
	2 nd		Checking rough practical record.
12th	1 st		Discussing viva question and record correction.

	2 nd	Expt-8	To find the viscosity of a given liquid by stokes law.
13th	1 st		Checking rough practical record.
	2 nd		Discussing viva question and record correction.
14th	1 st	Expt-9	To measure room temperatuer and temperature of a hot bath using mercury thermometer and convert it into different scales.
	2 nd		Checking rough practical record.
15th	1 st		Discussing viva question and record correction.
	2 nd		Revising the performed experiment and discussing viva questions.

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