LAB LESSO	N PLAN						
Govt.Polytechnic sambalpur,Rengali							
Name of the Faculty:Soumya Ranjan Ray	Academic Year:2024-25						
Course Code.: PR 2	Course Name:Applied Physics-1 lab						
Program: Diploma first year	Branch:Electrical						
Year/Semester: Ist & 2nd	Section: C,D						

sl no	week	time(min)	lecture no.	Experiments to be performed	Teaching Method
1		120	1	Introduction to physics lab regarding record maintenance, safety rules and guidelines.	Chalkboard
	1st	120	2	EXPERIMENT-1 (To measure lengh, radius of a given cylinder, a testtube and a beaker using a vernier caliper and find volume of each object) Introduction of the instrument and demonstration of experiment	Chalkboard
		120	3	Observation and calculation by students	Chalkboard
2	2nd	120	4	Record writing by the students, record checking and viva voce.	Chalkboard
3	3rd	120	5	EXPERIMENT-2 (Determination of diameter of wire, solid ball and thickness of cardboard using a screw gauge.) Introduction of the instrument and demonstration of Experiment	Chalkboard
		120	6	Observation and calculation by students	Chalkboard
4		120	7	Record writing by the students, record checking and viva voce.	Chalkboard
	4th	120	8	EXPERIMENT-3 (Determination of radius of curvature of a convex and concave mirror using a spherometer.) Introduction of the instrument and demonstration of Experiment	Chalkboard
	5th	120	9	Observation and calculation by students	Chalkboard
5		120	10	Record writing by the students, record checking and viva voce.	Chalkboard
6	6th	120	11	EXPERIMENT-4 (verify triangle law and parallelogram law of forces .) Demonstration of Experiment& Observation and calculation by students.	Chalkboard
		120	12	Observation and calculation by students	Chalkboard
400		120	13	Record writing by the students, record checking and viva voce.	Chalkboard
7	7th	120	14	EXPERIMENT-5(Determination of force constant of a spring using hook's law.) Introduction of the instrument and demonstration of Experiment.	Chalkboard
	8th	120	15	Observation and calculation by students	Chalkboard
8		120	16	Record writing by the students, record checking and viva voce.	Chalkboard
9	9th	120	17	EXPERIMENT-6(To verify law of conservation of mechanical energy from potential energy to kinetic energy.) Introduction of the instrument and demonstration of Experiment.	Chalkboard

		120	18	Observationand calculation by students	Chalkboard
10	10th	120	19	Record writing by the students, record checking and viva voce	Chalkboard
		120	20	EXPERIMENT-7(To find the moment of inertia of a fly wheel.) Introduction of the instrument and demonstration of Experiment.	Chalkboard
- -,T-,,	11th -	120	21	Observation and calculation by students	Chalkboard
11		120	22	Record writing by the students, record checking and viva voce.	Chalkboard
12	12th	120	23	EXPERIMENT-8(To find the viscosity of a given liquid(glycerine)by stokes law.) Introduction of the instrument and demonstration of Experiment.	Chalkboard
		120	24	Observation and calculation by students.	Chalkboard
	13th	120	25	Record writing by the students, record checking and viva voce.	Chalkboard
13		120	26	EXPERIMENT-9 (Find the coefficient of linear expansion of the material of the rod.) Introduction of the instrument and demonstration of Experiment.	Chalkboard
*	14th	120	27	Observation and calculation by students.	Chalkboard
14		120	28	EXPERIMENT-10(To measure room temperature and temperature of a hot bar using mercury thermometer and convert it into different scale.) Introduction of the instrument and demonstration of Experiment.	Chalkboard
15	15th	120	29	Observation and calculation by students.	Chalkboard
13		120	30	Record checking and viva voce.	Chalkboard

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