

Physics 10L

Descriptive Physics in Laboratory

1. Course Description:

Laboratory investigations of physical principles with minimum mathematical emphasis

2. Prerequisites:

Enrollment in or completion of physics 10

3. Instructor:

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E310E

4. Text:

Physics 10L Laboratory manual 2nd Edition

5. Laboratory Report and Notebook:

- The following items should be included in the formal laboratory reports.

Objective	Theory
Equipment	Procedure
Data Table	Sample Calculation
Summary of Results	Conclusion

- Lab Notebook (recommended)

6. Experiments and schedules as listed in the attached table

7. Grade:

- Each absence deducts 20 points;
- Each tardy or early departure deduct 10 points;
- Each talking or disturbing during lecture deducts 20 points;
- A final course grade depends on the total points of lab reports, performances in the lab, attendance, midterm and final;
- No make up lab, test or exam.

Physics 10 Lab Schedule

Week	Exp#	The Point	Lab	Chapter
1	1	Observation	Classification	3
2	2	Deduction	Pendulum/Graphs and Motion	5, 6
3	3	Work and Energy	Lever	9, 10
4	4		Pulley	7, 8
5	5		Inclined Plane, Wheel and Axle	11, 12
6	6	Fluids	Archimedes Principle	14, 15
7	7	Electricity	Circuits	35, 36
8	8	Electricity	Circuits	35, 36
9	9	Vibrations and Waves	Wave Tanks and resonance	16
10	10	Geometrical Optics	thin Lenses and Image Formation	18, 19, 20
11	11	Wave Optics	Young's Experiment	
12	12	Atoms and Spectra	Spectra	
13	13		Specific Heat/Heat of Fusion/heat of Vaporization	32
14	14		Charles Law	23, 24
15	15		Thermal Expansion	27