LAB OUTLINE: PHYSICS I LAB (PHY107L)

Department of Mathematics & Physics North South University

Semester : Summer 2023

Course : Physics I Lab (PHY 107L)

Section : 2

Credit : 01 (one credit)

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Lab Instructor : Md. Rakib Hossain

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Office Room : 1061

Contact Number : 01743-017894

Office Hour : Wednesday 09:00 AM - 12.10 PM & 4.20 PM - 5.30 PM.

MARK DISTRIBUTION

Class Attendance : 5% LAB Report : 60% Final Exam : 25%

Viva : 10%

LAB OUTLINE

Lab 1	Introduction to Measurement and Statistical Error
Lab 2	Bouncing Ball experiment
Lab 3	Demonstration of Hooke's Law using spiral spring
Lab 4	Determination of sheer modulus using Dynamic Method
Lab 5	Period of Oscillation for a Simple Pendulum
Lab 6	Compound Pendulum and simple harmonic motion

Lab Report

- 1. Each group must complete and submit the lab report within the class time.
- 2. It is mandatory to show working for every calculation in the report.
- 3. Be consistent with the significant figures of the data and the result of the calculation.
- 4. Provide units where necessary.
- 5. Use 80% of a graph paper while drawing the graph. (Further instruction about the graph will be provided in the class).

Instructions for LAB:

- 1. Each student must print their own lab manual.
- 2. Each student must also bring his /her own calculator, pen or pencil, geometry box, protector, and graph papers.
- 3. Report must be Handwritten.
- 4. Lab Class Performance will be evaluated in every class by asking to build the circuit or to show some functions of the equipment, which are already explained in the class.
- 5. Use of cell phone for any purpose is strictly prohibited, if found may lead to deduction of marks from performance.
- 6. Cooperative behavior is highly recommended.