

**LAB OUTLINE: PHYSICS I LAB (PHY107L)**  
**NORTH SOUTH UNIVERSITY**  
**DEPARTMENT OF MATHEMATICS & PHYSICS**

**Semester** : Fall 2025  
**Course** : Physics I Lab (PHY 107L)  
**Section** : 08  
**Credit** 01  
**Course Instructor** : **Dr. Rubaiyet Iftekharul Haque (RUH)**  
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**Office Room** : SAC 1065A  
**Lab Instructor** : **S M Enzamul Haque Taqi**  
**Email** : Enzamul.Haque@northsouth.edu  
**Office Room** : SAC 1018 (C) or SAC 1040  
**Contact Number** : +8801521201912  
**Office Hour** : Sunday 11.30-12.30PM. & Tuesday 1.30-2.30PM  
Wednesday 2.30-4.30PM

**Lab Outline**

<b>Lab 1</b>	Introduction to Measurement and Statistical Error
<b>Lab 2</b>	Experiment with a Bouncing Ball
<b>Lab 3</b>	Demonstration of Hooke's Law using spiral spring
<b>Lab 4</b>	Determination of Shear Modulus using Dynamic Method
<b>Lab 5</b>	Period of Oscillation for a Pendulum and determination of value of 'g'
<b>Lab 6</b>	Experiment with Compound Pendulum and determination of value of 'g'

**Mark Distributions**

Attendance	<b>5%</b>
Class Performance	<b>5%</b>
Pre Labs	<b>5%</b>
Lab Reports	<b>50%</b>
Final (Set Up, Written & Viva)	<b>35%</b>

### **Instructions for Completing the 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 the LAB**

1. Each Student must **download and print** the lab manuals from the Canvas/Google Classroom.
2. Each student must have their own lab manual. Any sharing of data will result in negative marks if found.
3. Students must have **graph papers (cm scale)**.
4. Lab Class Performance will be evaluated in every 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.
7. Bring your own **Pencil, Ruler, Calculator**.