



**Semester** : Spring 2022  
**Course** : PHY-107L  
 (General Physics – I Lab)  
**Section** : 02 (M 8:00AM-11:10AM)  
**Credit** : 01  
**Course Instructor** : Md. Arifuzzaman(Azm1)  
**Office Contact** :  
[md.arifuzzaman01@northsouth.edu](mailto:md.arifuzzaman01@northsouth.edu)  
**Lab Instructor** : Nazmul Hasan  
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[nazmul.hasan05@northsouth.edu](mailto:nazmul.hasan05@northsouth.edu)  
**Office Room** : SAC 1061  
**Office Hour** : Post you queries in the  
 classroom or send an email

### 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** Period of Oscillation for a Simple  
Pendulum

**Lab 5** Compound Pendulum and simple  
harmonic motion

### Marks Distribution \*

Attendance, Class Performances	10%
Pre Lab	10%
Lab Report	50%
Final Exam	20%
Viva and Lab works	10%

### **Instructions for Lab Completing Report**

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

### **Instructions for the LAB**

1. Each Student must collect or download the lab manual from the Google Classroom. Please **use the NSU Gmail account** (@northsouth.edu) to join the google classroom and NOT regular Gmail account.
2. Each student must have their own lab manual. Any sharing of data will result in negative marks if found.
3. Cooperative behavior is highly recommended in addition following the instructions carefully.
4. Any sort of circumstantial request to be conveyed through email keeping the faculty in cc of the email.
5. Each student must also bring his /her own calculator, pen or pencil, geometry box, Protector and Graph Papers.
6. The pre-lab questions are based on the lab material and needs to be answered and submitted at the beginning of the lab class.
7. Report must be Handwritten
8. Cooperative behavior is highly recommended.
9. There will be No Make-Up Lab or Exam.

(\*) indicates for tentative list and subjected to alter at any time.