

LAB OUTLINE: PHYSICS I LAB (PHY107L)

NORTH SOUTH UNIVERSITY

DEPARTMENT OF MATHEMATICS & PHYSICS

Course : Physics I Lab

Course Code : PHY 107L

Credit : One (1)

Course Description This Lab course is designed to introduce the principles of Newtonian mechanics at the freshman level. The overall aims of the labs are to help the students to learn the essentials of Physics experiments i.e. measure unknown quantities and draw conclusion from the measured data.

Lab Outline

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

Marks Distribution

Attendance + Performance	5% + 5%
Pre-Lab	5%
Lab Reports	55%
Final (Setup + Written + Viva)	30%