**Applied Physics Laboratory Assignment Number 1:**

Complete your record work for the following experiment covering the following topics:

**Experiment:** Moment of inertia of a flywheel

**Subtopics:**

Aim

Apparatus required

Formula

Diagram

Procedure and Tabular column

Calculation and Result

*Data:*

*Dia of axel:*

MSR: 2.2 cm

VSC: 15, 17, 14, 17, 13

*MI calculations: (Assuming Nil Fractional Rotation)*

**First set:**

Mass : 500 gm

No: of windings : 15, 17, 20

Height (cm) : 145, 148, 151

No: of rotations: 43, 42, 42

Time in sec : 17, 18, 20

**Second set:**

Mass : 600 gm

No: of windings : 15, 17, 20

Height (cm) : 145, 148, 151

No: of rotations: 53, 51, 48

Time in sec : 25, 21, 22

**Third set:**

Mass : 700 gm

No: of windings : 15, 17, 20

Height (cm) : 145, 148, 151

No: of rotations: 58, 59, 60

Time in sec : 24, 22, 22