Physics Lab Equipments & Experimental Setups

ME 914 - To verify hook's law of spring

Setup Consist of:

- A spring with stand and attached scale (100cm)
- Slotted weights : 1000gm

ME 916 - To determine the modulus of rigidity of the material of the given wire and moment of inertia of an irregular body with the help of a torsion table.

Setup Consist of :

- Inertia Table with wall clamp
- Irregular body and regular body
- Stop watch : Least count - 0.01 Sec
- Vernier caliper : Least count - 0.01cm Range :15cm
- Screw gauge : Least count - 0.01mm
- Measuring tape : 3 Meters
- Wire : Different materials (1 Meter each)

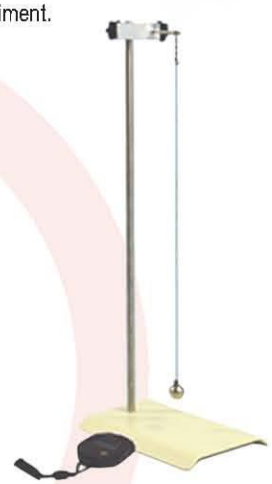
Optional:

- Low Power Telescope with stand
- Needle with stand Inertia table stand
- Digital weighing machine : 600gm

ME 917 - Simple Pendulum

Objectives:

- To study the motion of a simple pendulum.
- To study simple harmonic motion.
- To learn the definitions of period, frequency, and amplitude.
- To learn the relationships between the period, frequency, amplitude and length of a simple pendulum.
- To determine the acceleration due to gravity using the theory, results, and analysis of this experiment.



Setup Consist of :

- A rigid support with stand
- A small spherical ball (bob) with a 125 cm length of light string
- Measuring tape (3m)
- Vernier caliper : Least count - 0.01cm Range :15cm
- Stop watch : Least count - 0.01 Sec

ME 917A - To determine the coefficient of damping, relaxation time and quality factor of a damped simple harmonic motion using a simple pendulum.

Setup Consist of:

- A long simple pendulum with three different materials bobs.
- One meter scale with stand attachable arrangement.
- Stop watch : Least count - 0.01 Sec
- Two Meter Non-Extensible thread.
- Stand for Simple Pendulum.