



# Young's Modulus Setup

Nvis 6040



**Nvis 6040 Young's Modulus Setup** is a complete system used to determine Young's Modulus of Elasticity of materials. When a metal wire is stretched beyond its elastic limit then its cross section is reduced i.e. its structure is changed internally. These changes increase with repeated drawings. The hardness and elasticity of the material are profoundly affected. Setup is used to investigate the change in length of a sample under a varying tension.

## Features

- Precise measurement by Spherometer
- Self-contained and easy to operate
- Buzzer indicator
- Samples - Aluminum, Brass and Iron
- A complete setup with stand, weights and different samples
- Online product tutorial

## Scope of Learning

- Determination of Young's Modulus of Elasticity of the given samples by bending

## Technical Specifications

### Sample 1

Material	: Iron
Length	: 100cm
Breadth	: 2.5cm
Depth	: 0.6cm

### Sample 2

Material	: Brass
Length	: 100cm
Breadth	: 2.6cm
Depth	: 0.5cm

### Sample 3

Material	: Aluminum
Length	: 100cm
Breadth	: 2.55cm
Depth	: 0.5cm

**Weight** : 500g (6 Nos.)

### Spherometer

Main scale	: 0-30mm
Circular Scale	: 100 divisions
Least Count	: 0.01mm

**DC Power Supply** : 12V

**Mains Supply** : 230V  $\pm$ 10%, 50Hz

Designed & Manufactured in India by

**Nvis Technologies Pvt. Ltd.**

141-A, Electronic Complex, Pardesipura, Indore-452010, India.

© +91-731-4211500, info@nvistech.com, www.NvisTech.com