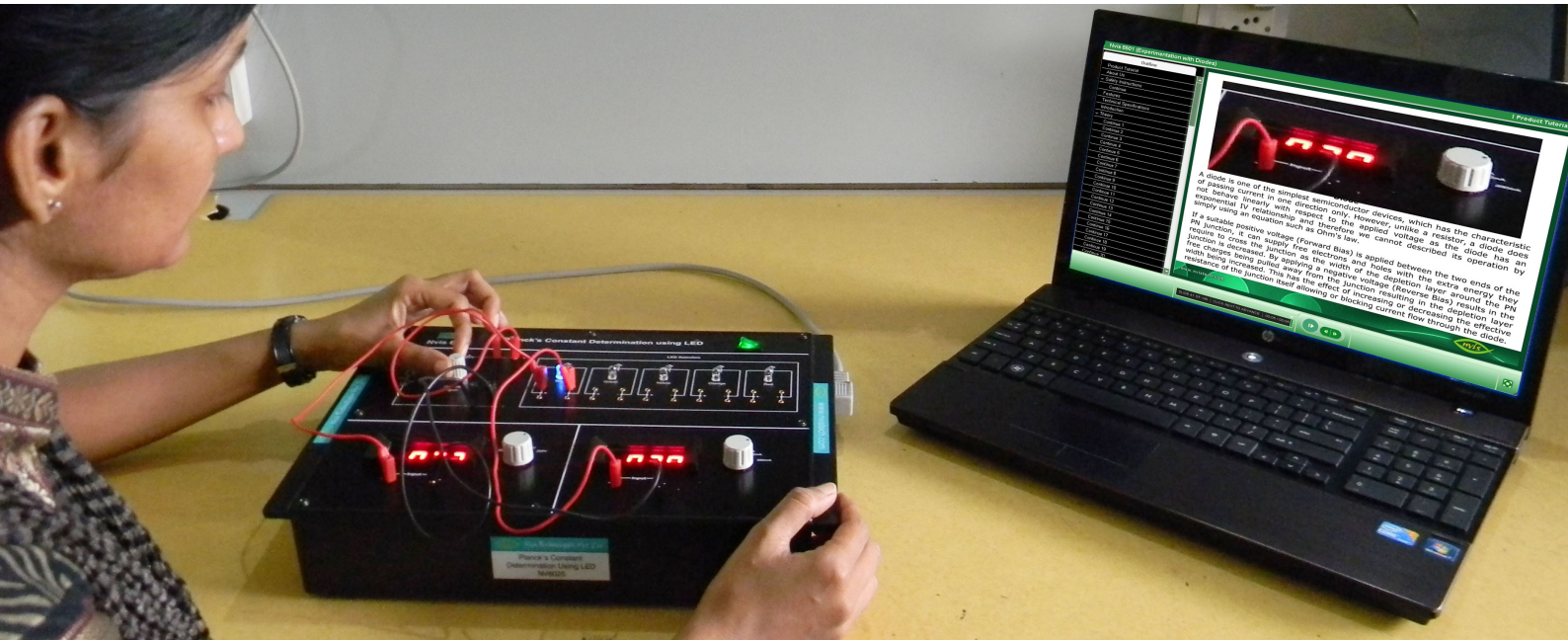




Planck's Constant determination using LED

Nvis 6025



Nvis 6025 Planck's Constant determination using LED is a useful setup which illustrates the basic concept of the Quantum Mechanics. The setup familiarizes the concept of photon energy and explains how it is related to its frequency. Setup is mainly designed to evaluate Planck's Constant. For this purpose five LEDs of different colors are included with the setup. This setup facilitates to determine the Planck's Constant by measuring the voltage drop across LEDs.

Features

- Self contained setup requires no other accessory
- Super bright LEDs
- LCD for current and voltage measurement
- Variable DC Supply (0-5 Volt)
- Online product tutorial

Scope of Learning

- Determination of Planck's Constant using Light Emitting Diode (LED)
- Draw the I-V characteristic for Light Emitting Diode (LED) and hence determine the Threshold Voltage
- Determination of Planck's Constant by plotting curve between Threshold Voltage and Wavelength of LEDs

Technical Specifications

DC Power Supply : 0-5 V

LED

Type : Super bright
Size : 5 mm
Colours : Blue, Green, Orange, Red and Yellow

DC Voltmeter

Type : LCD
Display : 3½ digit
Range : 200mV - 200V

DC Ammeter

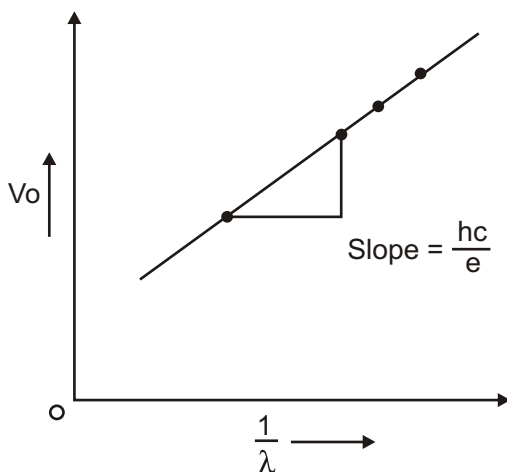
Type : LCD
Display : 3½ digit
Range : 2µA- 200mA

Mains Supply

: 230V ±10%, 50Hz

Fuse

: 0.5A



Curve between Threshold Voltage and Wavelength of LEDs

Designed & Manufactured in India by

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