

## IV-E415 Planck's Constant Using Black Body Radiation



### Scope of Learning:

- Study of Planck's Constant Using Black Body Radiation

### Technical Specification:

#### Power Supplies:

- DC Supply 0-12V DC, 3A
- Operated on Mains power 230V, 50Hz  $\pm 10\%$

#### Digital Meters:

- Ammeter 20uA DC.
- Voltmeter 20V DC
- Ammeter 20A DC.

#### Components are mounted on the panels are:

- Zero Setting through 10 Turn Potentiometer.
- Voltage Control through Potentiometer.
- Stand to hold Photo Cell enclosed in metal box.
- Light Source is housed in suitable box with Intensity Control.
- Color Filters: Red, Yellow, Green, Blue and Violet.
- Stand to hold color filter.
- BNC to BNC lead for interconnection.
- Optical Bench (Wooden)
- DC Bulb as Light Source