# PHY184:TESTING AND CALIBRATION LABORATORY

L:0 T:0 P:2 Credits:1

**Course Outcomes:** Through this course students should be able to

CO1 :: understand the fundamental principle of calibration of electronic devices.

CO2 :: learn the basic concepts of testing of electronic devices.

CO3 :: acquire the knowledge about the functionality of various types of electronic devices.

**List of Practicals / Experiments:**

**Calibration of devices**

- To calibrate a spectrometer and hence to find the wavelength of an unknown line from the D-lamda curve.
- To calibrate a polarimeter and hence to determine the specific rotation and the concentration of a sugar solution.
- To calibrate a voltmeter with the help of potentiometer.
- To calibrate an ammeter with the help of potentiometer.

**Testing of devices**

- To test a diode and a transistor.
- To test an IC and carrying out measurements with a multimeter and a CRO.

**References:**

1. ADVANCED PRACTICAL PHYSICS-I by S.P. SINGH, PRAGATI PRAKASHAN

2. ELECTRONIC CIRCUITS FUNDAMENTALS AND APPLICATIONS by MICHAEL TOOLE, TAYLOR & FRANCIS