

PH-15004 - SOLID STATE PHYSICS LABORATORY

Teaching Scheme

Practical: 2-hrs/week
Sem :Spring

Examination Scheme

Term work: 50 Marks
Oral+ Experiment: 50 Marks

List of Experiments:

1. Band gap of a semiconductor by four probe method
 2. Hall effect in Semiconductor
 3. Magnetoresistance measurement of semiconductor
 4. Measurement of e/m of an electron by Thomson's method
 5. Measurement of magnetic susceptibility by Quinke's method
 6. Study of Biot-Savart's law
 7. To determine the reverse saturation current and material constant of PN Junction
 8. To determine the dielectric constant of material
 9. Hysteresis loop tracer
 10. X-Ray diffraction analysis
-