

## PH-19004 - SOLID STATE PHYSICS LABORATORY

### Teaching Scheme

Practical: 2-hrs/week

Sem :Spring

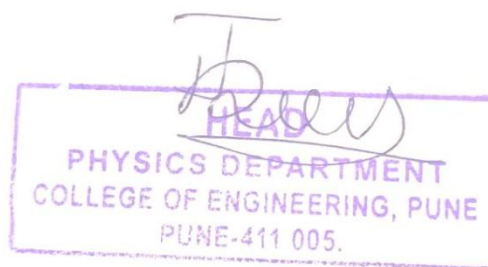
### Examination Scheme

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
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Head

Physics Department