

I Year I Semester

L T P C

Code: 17PH111

0 0 3 2

**APPLIED/ENGINEERING PHYSICS
LABORATORY**

1. Determination of wavelength of source-diffraction grating
2. Newton ring- Radius of curvature of planoconvex lens
3. Determination of thickness of thin object using parallel fringes method
4. Determination of rigidity modulus of the material-Torsional pendulum
5. Determination of acceleration due to gravity- Compound pendulum
6. Melde's experiment- Transverse and longitudinal modes
7. Verification of laws of stretched string- Sonometer
8. Determination of velocity of sound-volume resonator
9. LCR series resonance circuit
10. Study of I-V characteristics of semiconductor diode
11. I-V characteristics of Zenor diode
12. Thermoster characteristics-Temperature coefficient
13. Steewart-Gees experiment-Magnetic field along the axis of current carrying coil
14. Energy bandgap of semiconductor P-N junction
15. Hall effect for semiconductor

References:

1. Engineering physics/Applied physics lab manual by Dr. Y. Aparna and Dr. K. Venkateswara rao
2. Physics practical manual by Lorven publications.