# I Year - II Semester 17PH211

### L T P C

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# APPLIED PHYSICS/ ENGINEERING PHYSICS LABORATORY (CE, EEE, and ME)

- 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. Venkateswararao Physics practical manual by Lorven publications.