I Year II Semester   **L   T   P   C**
Code: 17PH211   **0   0   3   2**

APPLIED/ENGINEERING PHYSICS LAB

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.