

Physics Lab-III

Course Code: BEB352

Contact Hours: 15

Course Outline:

Credit: 01 (L-0, T-0, P-2)


MM: 25


Each student has to perform **eight** experiments, selecting a minimum of three experiments from each of the following group;

1. To determine the Frequency of an Electrically Maintained Tuning Fork by Melde_s Experiment.
2. To determine the frequency of AC mains by Sonometer.
3. To study the response curve of a Series LCR circuit and determine its (a) Resonant frequency, (b) Impedance at resonance and (c) Quality factor Q, and (d) Band width.
4. To study the response curve of a Parallel LCR circuit and determine its (a) Anti - resonant frequency and (b) Quality factor Q.
5. To determine the specific resistance of a given wire using Carey Foster_s bridge. 6. To determine a Low Resistance by a Potentiometer.
7. To calibrate the given ammeter and voltmeter by potentiometer.
8. To draw hysteresis curve of a given sample of ferromagnetic material and from - this to determine magnetic susceptibility and permeability of the given specimen
9. To determine the ballistic constant of a ballistic galvanometer.
10. To study the variation of magnetic field along the axis of current carrying - circular coil and then to estimate the radius of the coil.
11. To determine Self Inductance of a Coil by Anderson_s Bridge using AC

Suggested Reading:

- GeetaSanon. BSc Practical Physics, 1stEdn. (2007), R. Chand & Co.
- B. L. Worsnop and H. T. Flint, Advanced Practical Physics, Asia Publishing House, New Delhi.
- Indu Prakash and Ramakrishna, A Text Book of Practical Physics Vol 1 & Vol 2, KitabMahal, New Delhi.
- D. P. Khandelwal. A Laboratory Manual of Physics for Undergraduate Classes, Vani Publication House, New Delhi


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