

Physics Lab -V

Course Code: BEB552

Contact Hours: 15

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

MM: 25

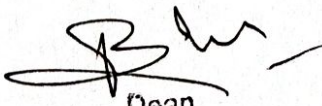
Course Outline:

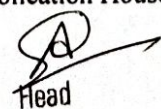
Student has to perform any eight experiments of the following

1. To verify Stefan's law & determine the value of Stefan's Constant.
2. To study the Characteristics of a Photo-diode.
3. To verify inverse square law for light using a photocell as a photometer.
4. To determine the ionization potential of the given gas (Xenon).
5. To compare the illuminating powers of two given bulbs by means of a photo cell.
6. To determine the absorption coefficient of the given liquid (or solution) with the help of a photo cell.
7. Characteristic curves of a photo electric cell and determination of stopping potential.
8. To study the PE Hysteresis loop of a Ferroelectric Crystal.
9. To measure the Magnetic susceptibility of Solids and Liquids.
10. To determine a Low Resistance by Carey Foster's Bridge.
11. To determine a Low Resistance by a Potentiometer.

Suggested Reading:

- Geeta Sanon, BSc Practical Physics, 1st Edn. (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, Kitab Mahal, New Delhi
- D. P. Khandelwal, A Laboratory Manual of Physics for undergraduate classes, Vani Publication House, New Delhi


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