

Physics Lab-IV

Course Code: BEB452

Contact Hours: 15

Course Outline:

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


MM: 25


Student has to perform any eight experiments of the following:

1. To determine the value of Boltzmann Constant by studying Forward Characteristics of a Diode.
2. To determine the value of Planck's constant by using a Photoelectric Cell.
3. To determine the resolving power of the given grating.
4. To study spectra of different elements with a diffraction grating.
5. To determine High Resistance by Leakage of a Capacitor.
6. To determine the capacitance of a capacitor with Wein's series resistance bridge for capacity measurement.
7. To determine the self-inductance of a given coil by Maxwell's inductance Bridge.
8. To draw the characteristic curves of a photo cell and to find the maximum velocity of the emitted electrons.
9. To determine the value of Plank's constant and work function of the material of the cathode of a photo electric cell.
10. To determine high resistance by leakage method.

Reference books:

1. GeetaSanon. B. Sc Practical Physics, 1stEdn. (2007), R. Chand & Co
2. B. L. Worsnop and H. T. Flint, Advanced Practical Physics, Asia Publishing House, New Delhi.
3. Indu Prakash and Ramakrishna, A Text Book of Practical Physics, KitabMahal, New Delhi.
4. D. P. Khandelwal, A laboratory manual of Physics for undergraduate classes, Vani Publication House, New Delhi


Dean
Faculty of Education
Invertis University
Bareilly-22123, U.P.


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