

AHP-102-A	APPLIED PHYSICS LAB-II	L	T	P	Cr.
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(Common for B. Tech, Integrated M. Tech, Dual Degree MBA)

LIST OF EXPERIMENTS

1. To study the variation of magnetic field along the axis of a circular coil carrying current and to find the radius of coil.
2. To find the low resistance by Carey Foster Bridge
3. To find the value of high resistance by substitution method.
4. To find the value of high resistance by Leakage method
5. To study the Hall Effect and to determine the Hall coefficient and carrier density in a given semiconductor material.
6. To find e/m of an electron by helical method.
7. To study the forward and reverse bias characteristics of a p-n junction diode.
8. To find the coefficient of self inductance by Rayleigh's method.
9. To find the band gap of an intrinsic semiconductor using four probe method.
10. To study the B-H curve and Hysteresis loss.
11. To determine the ionization potential of a gas filled thyatron valve.
12. To study the V-I characteristics of Solar Cell.

TEXT BOOKS:

1. Practical Physics by S. L. Gupta and V. Kumar (Pragati Prakashan)
2. Advanced Practical Physics VOL – II, by Chauhan and Singh (Pragati Prakashan)

NOTE:

1. Do any eight experiments.
2. The students are required to calculate the error involved in a particular experiment (Percentage error).
3. The practical examination will be held in one session of 3 hours.

DISTRIBUTION OF MARKS:

- External Practical Exam: 30 Marks
- Internal Evaluation: 20 Marks
- **Total: 50 Marks**