

AHP-101-A	APPLIED PHYSICS LAB-I	L	T	P	Cr.
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(Common for B. Tech, Integrated M. Tech, Dual Degree MBA)

LIST OF EXPERIMENTS:

1. To find the wavelength of sodium light by Fresnel's Bi-prism experiment
2. To find the wavelength of sodium light by Newton's rings experiment
3. To find the wavelengths of various colors of white light with the help of plane transmission diffraction grating.
4. To find the refractive index and Cauchy's constants of a prism by using spectrometer.
5. To find the resolving power of a telescope.
6. To find the pitch of screw using He-Ne laser.
7. To find the specific rotation of cane sugar solution using Polarimeter.
8. To compare the capacitances of two capacitors by De'Sauty bridge.
9. To study the photoconductive cell and hence to verify inverse square law.
10. To find the frequency of A.C.mains using sonometer.
11. To find the temperature coefficient of resistance by using platinum resistance thermometer and Callender-Griffiths bridge.
12. To find the flashing and quenching potentials of Argon and also to find the capacitance of unknown capacitor.

TEXT BOOKS:

1. Practical Physics by S. L. Gupta and V. Kumar (Pragati Prakashan)
2. Advanced Practical Physics VOL- I, 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**