



ENGINEERING PHYSICS (BT-201)

List of Practical's

1. To draw V-I Characteristics of P-N junction diode.
2. To draw V-I Characteristics of Zener Diode.
3. To draw V-I Characteristics of Photo diode.
4. To draw V-I Characteristics of Solar Cell.
5. To determine the Energy Band gap of semiconductor.
6. To determine the Refractive index and dispersive power of prism. With the help of Spectrometer and Mercury Lamp.
7. To determine the λ of sodium light with the help of Newton's Ring.
8. To determine the frequency of AC mains supply.
9. To determine the wavelength of green and violet light by using Plane Diffraction grating.
10. To study the Hall Effect and calculate the hall coefficient.



INSTRUCTIONS FOR LABORATORY

The objective of the laboratory is skill development. The experiments are designed to illustrate phenomena in different areas of Physics and to expose you to measuring instruments. Conduct the experiments with interest and an attitude of learning.

Students are expected to be well prepared for the experiment when they come to the lab.

Work quietly and carefully (the whole purpose of experimentation is to make reliable measurements!) and equally share the work with your partners.

Be honest in recording and representing your data. Never make up readings or doctor them to get a better fit for a graph. If a particular reading appears wrong repeat the measurement carefully. In any event all the data recorded in the tables have to be faithfully displayed on the graph.

All presentations of data, tables and graphs calculations should be neatly and carefully done.

Bring necessary graph papers for each of experiment. Learn to optimize on usage of graph papers.

Graphs should be neatly drawn with pencil. Always label graphs and the axes and display units.

If you finish early, spend the remaining time to complete the calculations and drawing graphs. Come equipped with calculator, scales, pencils etc.

Do not fiddle idly with apparatus. Handle instruments with care.

Report any breakage or damage to the Instructor.

Return all the equipment you have signed out for the purpose of your experiment.