

ACHARYA NAGARJUNA UNIVERSITY - UG SYLLABUS

Group: B.Sc

Subject: Modern Physics Lab

Year: III

Sem: V

List of Experiments

1. e/m of an electron by Thomson method.
2. Determination of Planck's Constant (photocell).
3. Verification of inverse square law of light using photovoltaic cell.
4. Study of absorption of α -rays.
5. Study of absorption of γ -rays.
6. Determination of Range of β -particles.
7. Determination of M & H .
8. Analysis of powder X-ray diffraction pattern to determine properties of crystals.
9. Energy gap of a semiconductor using junction diode.
10. Energy gap of a semiconductor using thermister.