



Code	Subject Title	Cr. Hrs	Semester
PHY-114	Physics Lab-II (Waves & Oscillation)	1	II
Year	Discipline		
1	Chemistry-II, Mathematics-I, Statistics-I		

1. Thermo-Couple, Thermal e.m.f. and temperature diagram.
2. Determination of 'J' Electrical Method (Calendar and Barnes Method) with compensation for heat loss.
3. Velocity of Sound by Kundt's tube.
4. Frequency & A.C. mains by Sonometer.
5. Frequency & A.C. mains by Melde's Approvals
6. Use of sextant and measurement of altitude with it
7. Wavelengths of sodium D lines by Newton's Rings.
8. Wavelengths of light by Fresnel's biprism
9. Wavelength of light by diffraction grating
10. Measurement of the Rotation of the Plane of Polarization
11. Resolving Power of diffraction grating
12. Determination of the radius of Lycopodium Particles

**Recommended Books:**

1. Physics Vol. I & II (extended) by Resnick, Halliday and Karne, 4<sup>th</sup> and Sons Inc, New York.
2. Fundamentals of Physics by Halliday Resnick and Krane, John Wiley and Sons Inc, New York.
3. University Physics 8<sup>th</sup> Edition by Sears, Zemansky and Young, Addison – Wesley, Reading (MA), USA.
4. Physics by Alonso and Finn; Addison-Wesley, Reading (MA) USA.