



**MANGALORE UNIVERSITY**  
**Department of Physics**  
**MSc Physics**

**PHP 456 PHYSICS PRACTICALS III (General)**

**Course outcome**

CO1 The student will know to determine: Half-life of material like K-40, Thermoelectric constant of materials. Gamma ray Spectrum of Cs-137.

CO2 Will able to determine Ferroelectric Curie temperature, study the effect of white light (sun tracking) on energy generation by solar PV module and I-V characteristic of solar cell, measure the variation of dielectric constant with temperature.

CO3 Will able to study the: transition temperature of ferrites, Hall effect and temperature

CO4 Will be able to measure the variation of dielectric constant with temperature.

1. Half life of K-40
2. Thermoelectric constant
3. Gamma ray Spectrum of Cs-137
4. Ferroelectric Curie temperature
5. Estimation of effect of white light (sun tracking) on energy generation by solar PV module.
6. To measure the variation of dielectric constant with temperature and verification of Curie Weiss law.
7. Verification of Inverse square law (G.M.tube)
8. Transition temperature of ferrites.
9. Temperature dependence of Hall coefficient.
10. To study the I-V characteristics of solar panel.
11. Study of Hall effect
12. To measure the variation of dielectric constant with temperature and verification of Curie Weiss law.

**\* Additional experiments may be included.**