MANGALORE UNIVERSITY

Department of Physics

MSc Physics

PHP 405: PHYSICS PRACTICALS I (General)

Course Outcome

CO1 The student will know to determine efficiency of a GM counter, Study the beta ray attenuation in matter, Determine of energy gap of a semiconductor, Susceptibility by Quincke's method.

CO2 Will able to determine Modes of vibration of a fixed free bar and hence the elastic properties of materials. Temperaturedependence of Hall coefficient, Magnetic susceptibility of hydrated copper sulphate. Study the variation of magnetoresistance of a sample with the applied magnetic field.

CO3 Will able to determine strength of an α-source using SSNTD.

CO4 Able to study the transition temperature of a ferroelectric materials.

CO5 Able to determine the dielectric constant of given materials.

1Characteristics and efficiency of a GM counter.

2 Study the beta ray attenuation in matter.

3 Determination of energy gap of a semiconductor.

4 Susceptibility by Quinke`s method.

5 Modes of vibration of a fixed free bar

6 Temperature dependence of Hall coefficient.

7 Magnetic susceptibility of hydrated copper sulfate.

8 To study the variation of magnetoresistance of a sample with the applied magnetic field.

9 To determine the strength of an α-source using SSNTD.

10 Transition temperature of a ferroelectric material

11Dielectric constant of a given material.

*** Additional experiments may be included.**