

M.Sc. (PHYSICS) Programme Structure
Programme Code: MSCPHY-20
Second Semester

COURSE – 7 Solid State Physics

Credits – 3

Paper code: MPHY507

Total Marks: 50(Assignment 10 +Theory Exam 40)

BLOCK- IV LATTICE VIBRATIONS AND THERMAL PROPERTIES

Unit –12 : Elastic Waves in Solids

Unit –13 : Infra-Red Absorption Ionic Crystals

Unit –14 : Lattice Heat Capacity

BLOCK -V DIELECTRONICS AND FERROELECTICS

Unit –15 : Macroscopic Descriptions of Dielectrics

Unit –16 : Measurement of Dielectric Constant

Unit –17 : Ferroelectrics

BLOCK –VI MAGNETISM & SUPERCONDUCTIVITY

Unit –18 : Magnetism

Unit –19 : Spontaneous Magnetization

Unit –20 : Occurrence of Superconductivity

Unit –21 : Superconductivity – Theoretical Explanations