

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

COURSE – 8 Analog Electronics

Credits - 3

Paper code: MPHY508

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

BLOCK – I SEMICONDUCTOR DIODES, TRANSISTORS AND AMPLIFIERS

- Unit –1 : Semiconductor Diodes
- Unit –2 : Transistors
- Unit –3 : Power Supplies
- Unit –4 : Feedback Amplifiers
- Unit –5 : RC coupled amplifier and its frequency response
- Unit –6 : Oscillators (Using Transistors)
- Unit –7 : Multivibrators (Using Transistors)

BLOCK – II OPERATIONAL AMPLIFIERS

- Unit –8 : Operational Amplifier and its characteristics parameters
- Unit –9 : Operational Amplifier – Configurations
- Unit –10 : Operational Amplifier – Frequency Response
- Unit –11 : Operational Amplifier – Linear Applications
- Unit –12 : Operational Amplifier – Non-Linear Applications
- Unit –13 : Operational Amplifier – Wave form generators