

COURSE – 8 Microwave Devices and Communication System
Paper code PHY554

Credits - 4

BLOCK – I PASSIVE DEVICES – WAVE GUIDES

- Unit –1 : Passive Devices – Wave – guides
- Unit –2 : Cut off wavelength
- Unit –3 : Rectangular Wave guides

BLOCK – II S-MATRIX

- Unit –4 : Scattering matrix
- Unit –5 : S-Matrix of E-Plane H-Plane and magic tee

BLOCK – III WAVE GUIDE COMPONENTS

- Unit –6 : Waveguide Components
- Unit –7 : Phase Shifters

BLOCK – IV MICROWAVE SEMICONDUCTOR DEVICES

- Unit –8 : Microwave Semiconductor Devices
- Unit –9 : Parametric Devices

BLOCK – V MICROWAVE TUBES

- Unit –10 : Two Cavity Klystron
- Unit –11 : Magnetron
- Unit –12 : Travelling Wave tube (TWT)

BLOCK – VI MODULATION & DEMODULATION

- Unit –13 : Modulation
- Unit –14 : Demodulation

BLOCK – VII ANTENNAS

- Unit –15 : Antenna Fundamentals
- Unit –16 : VHF antennas
- Unit –17 : Microwave antennas

BLOCK – VIII RADARS

- Unit –18 : Radars 184
- Unit –19 : Types of Radars
- Unit –20 : Tracking radar