INSTITUTE OF MANAGEMENT & TECHNOLOGY

INNOVATION • MOTIVATION • TRANSFORMATION

MICROWAVE ENGINEERING LAB (BECT-701)

Course Outcomes:

This laboratory helps the student in each of the design, simulation, fabrications and measurements of Microwave circuits.

List of Programs:

1. Study of various microwave components and instruments like frequency meter, attenuator, and detector & VSWR meter.
2. Draw V-I characteristics of microwave source like Gunn diode/ Reflex Klystron.
3. Measurement of frequency and wavelength in a rectangular waveguide.
4. Measurement of VSWR (small as well as large values) & reflection coefficient.
5. Measure unknown impedance with smith chart.
6. Draw the following characteristics of Gunn Diode:
   (i) Output power and frequency as a function of voltage:
   (ii) Square wave modulation by PIN diode.
7. Drawing polar pattern of Horn antenna.
8. To observe the action of directional coupler and its use in separating incident & reflected wave.