

MICROWAVE ENGINEERING AND DIGITAL COMMUNICATIONS LAB

PART-1: MICROWAVE ENGINEERING LAB (ANY 6 EXPERIMENTS):

1. REFLEX KLYSTRON CHARACTERISTICS
2. GUNN DIODE CHARACTERISTICS
3. DIRECTIONAL COUPLER CHARACTERISTICS
4. VSWR MEASUREMENT
5. MEASUREMENT OF SCATTERING PARAMETERS OF A MAGIC TEE
6. MEASUREMENT OF SCATTERING PARAMETERS OF A CIRCULATOR
7. ATTENUATION MEASUREMENT
8. MICROWAVE FREQUENCY MEASUREMENT

PART-B: DIGITAL COMMUNICATION LAB (ANY 6 EXPERIMENTS):

9. PCM GENERATION AND DETECTION
10. DIFFERENTIAL PULSE CODE MODULATION
11. DELTA MODULATION
12. TIME DIVISION MULTIFLEXING OF 2 BAND LIMITED SIGNALS
13. FREQUENCY SHIFT KEYING GENERATION AND DETECTION
14. PHASE SHIFT KEYING GENERATION AND DETECTION
15. DPSK: GENERATION AND DETECTION

Note: Minimum of 12 experiments to be conducted.