

# Microwave / Antenna Laboratory

- **List of Experiments**

1. **Antenna:**

1. To study radiation pattern and different antennas.
2. To study VSWR
3. Antenna comparison, gain
4. Beamwidth-Half power and 10db.
5. Front-back ratio

2. **Microwave:**

1. Study of microwave components & instruments
2. Study of reflex klystron characteristics
3. Study of frequency measurement of klystron
4. Study of measurement of unknown load impedance
5. Study of measurement of VSWR
6. study of properties of directional coupler
7. study of power division in magic TEE
8. study of characteristics of isolator & circulator
9. study of characteristics of horn antenna

- **List of Equipment**

1. **Antenna:**

Antenna Trainer Kit

2. **Microwave:**

1. Klystron power supply
2. Gunn Power supply
3. VSWR meter
4. Power meter
5. Frequency meter
6. Attenuator, circulator, waveguide twist, magic TEE, directional coupler
7. Reflex klystron tube
8. detector mount
9. Variable attenuator
10. waveguide stand
11. Pyramidal Horn

