



**MOTHER TERESA**  
**INSTITUTE OF SCIENCE & TECHNOLOGY**  
**Permanently Affiliated to JNTUH, Hyderabad**  
Recognition under Section 2(f) & 12 (B) of the UGC Act, 1956  
**AN ISO 9001:2008 CERTIFIED INSTITUTION**  
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**MWE LAB**



## MWE LAB EQUIPMENT LIST

S.NO	Lab/Major Equipments
1	Solid state Klystron Power Supply with Digital readout
2	Klystron Mount with Klystron Tube (2K25)
3	Isolator
4	Frequency Meter (Direct Reading Type)
5	Slotted Line Section
6	Gunn Power Supply
7	Variable attenuator (20 dB)
8	Tunable Probe
9	Detector Mount
10	Movable Short
11	Matched Termination
12	VSWR Meter
13	Wave Guide Stands
14	S.S. Tuner
15	T – Circulator
16	Y – Circulator
17	Magic Tee
18	Cooling Fans
19	Gunn Oscillator
20	PIN Modulator
21	Attenuator (Fixed Type)
	(a) 3 dB
	(b) 6 dB
	(c) 10 dB
22	Multi Hole Directional Coupler
	(a) 3 dB
	(a) 10 dB
23	Optical Fibre Trainer Kit (Analog Link) (Transmitter & Receiver) Model : 2021
24	Optical Fibre Trainer Kit (Digital Link) (Transmitter & Receiver) Model : 2022

**LIST OF EXPERIMENTS MWE:**

1. Reflex Klystron Characteristics.
2. Gunn Diode Characteristics.
3. Directional Coupler Characteristics.
4. VSWR Measurement.
5. Measurement of Waveguide Parameter.
6. Measurement of Impedance of a given Load.
7. Measurement of Scattering parameter of a Magic Tee.
8. Measurement of scattering parameters of a Circulators.
9. Attenuation Measurement.
10. Microwave Frequency Measurement.

**LIST OF EXPERIMENTS DC:**

1. PCM Generation and Detection.
2. Differential Pulse Code Modulation.
3. Delta Modulation.
4. Time Division Multiplexing of 2 Band limited signals.
5. Frequency shift keying : Generation and Detection.
6. Phase shift Keying: Generation and Detection.
7. Amplitude shift Keying: Generation and Detection.
8. Study of the spectral characteristics of PAM,QAM.
9. DPSK: Generation and Detection.
10. QPSK: Generation and Detection