

SEMESTER <i>Seventh</i>	DEPARTMENT <i>Telecommunications Engineering</i>	COURSE TITLE <i>Microwave Engineering Lab.</i>
COURSE CODE <i>ET702</i>	HOURS 3 UNITS 1	COURSE SPECIFICATIONS <i>Practical Content</i>

1. Rectangular waveguides:

- Propagation of microwaves into rectangular waveguides.
- Propagation of microwaves in free space.
- Measurements of guide wavelength and operating frequency.
- Standing wave ratio and reflection coefficient measurements.
- Attenuation, insertion loss, and return loss measurements.
- Impedance measurements.
- Impedance matching measurements.
- Microwave power measurements.

2. Test and use the following passive components:

- Series and shunt tees waveguide junctions.
- Magic tee junctions.
- Directional couplers.