

19AEC69- MICROWAVE ENGINEERING LAB

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Course Objectives: The objectives of the course are to make the students learn about

- To understand the working, different microwave components and sources in a microwave bench.
- To verify the characteristics of various microwave components using microwave bench set up.
- To draw the radiation pattern of microwave antennas.

Minimum Ten Experiments to be conducted

1. Reflex Klystron Characteristics.
2. Gunn Diode Characteristics.
3. Attenuation Measurement.
4. Directional Coupler Characteristics.
5. VSWR Measurement.
6. Impedance and Frequency Measurement.
7. Waveguide parameters measurement.
8. Scattering parameters of Directional Coupler.
9. Scattering parameters of Magic Tee.
10. Scattering parameters of Circulator.
11. Radiation Pattern Measurement of Horn Antenna.
12. Radiation Pattern Measurement of Patch Antenna.

Course Outcomes:

At the end of this Course the student will be able to

- Understand the working, different microwave components and sources in a microwave bench. L2
- Verify the characteristics of various microwave components using microwave bench set up. L3
- Draw the radiation pattern of microwave antennas. L3

