

JIS College of Engineering

Department of Electronics & Communication Engineering

Course Name Course Name: RF & Microwave Engineering Lab

Course Code: EC592, Contact: 0:0:3 Credit: 1.5

List of Experiments:

1. Determination of phase and group velocities in a waveguide carrying TE₁₀ Wave from Dispersion diagram [ω - β Plot].
2. Measurement of unknown impedance using shift in minima technique using waveguide test bench/Measurement of the susceptance of an inductive and or a capacitive window using shift in minima technique using waveguide testbench
3. Study of the characteristics of a Reflex Klystron oscillator
4. Study of Gunn-oscillator Characteristics using X-band waveguide testbench.
5. Measurement of coupling factor, Directivity, Insertion loss and Isolation of a Directional coupler using X-band waveguide test bench setup.
6. Scattering Matrix Amagi Tee/E-plane tee/H-plane tee using waveguide test bench at X-band.
7. Experimental/Simulation Study of filter (LPF, HPF, BPF) response.
8. Measuring Dielectric Constant of a material using waveguide test bench at X-band.