FOURTH YEAR

Microwave Engineering-II	COE406
Prerequisite: COE401	(3-2-1-2)

Microwave Network Analysis: Two-Port Networks, Scattering Parameters, The N-Port Network, Scattering Parameter Matrices of Common Two-Ports, Scattering Parameter Relationships, Parameters and Coupled Lines. Design and analysis of microwave filters: Periodic Structures, Image Parameters, Insertion Loss, Transformations, Implementation, Stepped-Impedance Low-Pass Filters, Coupled Line Filters, Coupled Resonators. Noise Analysis of Two-Port Circuits. Active Devices for Microwave Circuits. Amplifiers Designs. RF and Microwave System Design.

Practical part: Standing Waves Measurement, Attenuator Calibrations, Transmissions and Reflections, Quality and Bandwidth of a Resonance Cavity, Field Distribution.