

SYLLABUS :-

Pre-requisites: EC21006 S-matrix: representation, properties, shift in reference planes, generalized S-matrix; wave propagation in planar lines: design, effective dielectric constant, attenuation, dispersion, power-handling capability; lumped elements and their design; passive components: operation and S-matrices of resonators/cavities, directional couplers, power splitters/combiners, filters; non-reciprocal components: isolators and circulators; microwave sources: tube type, transistor amplifier and oscillator design, Gunn oscillator; microwave systems.