

THIRD YEAR

Waves Propagation	COE314
Prerequisite: COE303	(2-2-0-0)

The Propagation media: Introduction, Definitions, Categorizations and General Classifications. Mode of Wave Propagation: Different Modes of Wave Propagation, Ray/Mode Concepts. Ground Wave propagation: Ground parameters; propagation equation; propagation problems; Applications. Ionosphere Wave propagation: D-Layer attenuation; Ionosphere reflective index; Snell's law refraction; Effect of earth's magnetic field; regular variations of Ionosphere; Critical frequency: Virtual height; launch angle; Ionosphere maximum usable frequency factor: optimum working frequency; irregular variation of the Ionosphere, fading HF antennas.