

SYLLABUS :-

Pre-requisites: None Radar equation and Radar Cross Section. Methods for RCS estimation: GO, PO, GTD and PTD techniques. Ray tracing. RCS of simple and complex targets. RCS enhancement. Scattering by imperfectly conducting surfaces; Maliuzhinets's formulation and characterization of Absorbers. Methods of RCS reduction. Frequency domain target signatures. Real array Imaging radars. Synthetic array Radars. Signal processing methods.