

EEE 544 High Resolution Radar (3)

Course (Catalog) Description: Fundamentals; wideband coherent design, waveforms, and processing; stepped frequency; synthetic aperture radar (SAR); inverse synthetic aperture radar (ISAR); imaging.

Prerequisite: EEE 203 (Signals and Systems I) and 341 (Engineering Electromagnetics), or their equivalents.

Course Topics:

Radar fundamentals and radar range equation

Radar transmitters and receivers

High-Resolution Waveforms and Processing

Synthetic Aperture Radar

Inverse Synthetic Aperture Radar

Imaging