Review of transceiver architectures and introduction to RF circuit design. Circuit design of basic RF blocks: low noise amplifier (LNA), mixer, oscillator, frequency synthesizer, power amplifier, filter and resonator configuration. Introduction to AD converters used in transceiver. RF diodes and field effect transistors. Microwave linear beam tubes, Klystron, reflex Klystron, Magnetron, traveling wave tubes. (Pre-requisites: ECE2133, ECE3125)