## EL 330  - High Frequency Communication Circuits with Lab

4 Credit Hours
Designing a bias circuit, DC and AC load lines, DC and AC equivalent circuits, h parameter modelling, filters, Single stage and multi-stage amplification, amplifiers with negative feedback, power amplifiers, oscillators, mixers, frequency synthesizers, and basics for phase locked loop (PLL). Sensors and system application such as RFID, data sampling for physical systems (with introduction to Labview), Analog to Digital Converters (ADC’s), Digital to Analog Converters (DAC’s).