**Course Objectives:**

* Analyze and design a circuit containing one or more diodes.
* Analyze and design a circuit containing resistors and op amps.
* Perform a DC and AC analysis of a circuit containing BJT.
* Analyze and design a circuit containing one or more BJTs.
* Analyze and design a circuit containing a MOSFET.
* Analyze and design a circuit consisting of several building blocks.
* Derive the transfer function for a circuit.
* Use a Bode plot to predict circuit behavior.
* Produce a Bode plot for a circuit using a simulator and test and measurement equipment.
* Assemble a circuit on a PCB using laboratory tools and equipment.
* Use laboratory test and measurement equipment to analyze electronic circuits.
* Use a software tool to perform time and frequency domain analysis of an electronic circuit.
* Use a software tool to design electronic circuits.