ETRO 106 : Circuit Analysis II

Credits: 4
Class Hours: 3 lecture and 3 lab
Prerequisites: "C" or higher in ETRO 105.
Description: The course teaches practical and theoretical principles of AC circuits and waveforms and reinforces trouble shooting and circuit analysis skills. In addition, magnitude, phase, rectangular and polar forms for sinusoids, impedance, and power vectors will be introduced. Time domain and frequency domain solutions for capacitive and inductive circuits will be studied and filter circuits will be demonstrated.
Semester Offered: Spring
Course Student Learning Outcomes (CSLOs):

1. Demonstrate an understanding of the functions of contemporary tools of the electronics technology, such as multimeters, oscilloscopes, function generators, power supplies, and spectrum analyzers.
2. Design and analyze circuits by applying theoretical and technical knowledge of DC and AC components and circuit principals and by verifying designs with computer simulations. and lab experiments.