Student Learning Outcomes/Objectives, with Any Associations and Related Measures, Targets, Findings, and Action Plans

SLO 1: Students will demonstrate knowledge of mathematics, science, and engineering
Students will demonstrate the ability to apply knowledge of mathematics, science, and engineering

**Related Measures**

M 1: FE test results
FE test results
Source of Evidence: Academic direct measure of learning - other

**Target:**
Students taking this national test will receive an average index of at least 10 (scale 0-15) in the sections of Mathematics, Chemistry, and relevant engineering sections (Circuits, Power, Electromagnetics, Control Systems, Communications, Signal Processing, Electronics, Digital Systems, and Computer Systems).

SLO 2: Students will demonstrate knowledge of advanced mathematics
Students will demonstrate knowledge of advanced mathematics including differential equations, linear algebra, and discrete mathematics

**Related Measures**

M 1: FE test results
FE test results
Source of Evidence: Academic direct measure of learning - other

**Target:**
Students taking this national test will receive an average index of at least 10 (scale 0-15) in the Advanced Mathematics section of the FE national test.

SLO 3: Students will demonstrate knowledge of Electrical Engineering tools
Students will be able to demonstrate their knowledge of the techniques, skill, and modern Electrical Engineering tools necessary for Electrical Engineering practice

**Related Measures**

M 2: Lab assignments
Homework assignments in ENEE 3560 and ENEE 3530 will be used.
Source of Evidence: Academic direct measure of learning - other

**Target:**
80% will receive a rating or acceptable or above in the associated rubric. An assignment from ENEE 2586 will be used for demonstrating knowledge of Multisim (circuit design and simulation software), and ENEE 3512 for demonstrating knowledge of Assembly programming language.

SLO 4: Students will identify, formulate, and solve problems
Students will identify, formulate, and solve Electrical Engineering problems

**Related Measures**

M 3: Capstone project
Capstone project rated by faculty and industry jurors using a departmental rubric.
Source of Evidence: Capstone course assignments measuring mastery

**Target:**
80% will achieve a score of “acceptable” or above on all components of rubric.