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).

M 2: Exit survey
Graduation Senior Exit Survey
Source of Evidence: Exit interviews with grads/program completers
Target:
80% of students will provide ratings of “acceptable” or above.

SLO 2: Students will demonstrate knowledge of advanced mathematics
Students will demonstrate their 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.

M 2: Exit survey
Graduation Senior Exit Survey
Source of Evidence: Exit interviews with grads/program completers
Target:
80% of students will provide ratings of “acceptable” or above.

M 3: Lab and course assignments
Student scores in lab assignments that use Electrical Engineering related technology and tools.
Source of Evidence: Academic direct measure of learning - other
Target:
80% will receive a rating of acceptable or above in the associated rubric. Homework assignments in ENEE 3560 and ENEE 3530 will be used.

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: Exit survey
Graduation Senior Exit Survey
Source of Evidence: Exit interviews with grads/program completers
Target:
80% of students will provide ratings of “acceptable” or above.

M 3: Lab and course assignments
Student scores in lab assignments that use Electrical Engineering related technology and tools.
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 2: Exit survey**
Graduation Senior Exit Survey

Source of Evidence: Exit interviews with grade/program completers

**Target:**
80% of students will provide ratings of “acceptable” or above.

**M 4: 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.