

Program ~~evaluated~~Assessment System: Electrical Engineering

Step 1 – Essence Statement

The electrical engineering academic program is a unique, challenging, diverse and well established program, which educates students for advanced studies and for pursuing careers in the electrical engineering profession.

Step 2

Current goals:

1. To prepare students to pursue graduate studies;
2. To prepare students to immediately engage in the profession of electrical engineering;
3. To prepare students with proficiency in the state of the art computer technology and in the ethics of the engineering profession; and
4. To create a collegial atmosphere among the faculty to stimulate their professional growth.

Future goals:

1. To establish a graduate program in electrical engineering;
2. To start a full fledged BS program in computer engineering; and
3. To create devices for increasing student enrollment.

These are well developed

Step 3

Assessment: There is an on-going system to assess periodically objectives and outcomes by its key stakeholders. The system incorporates feedback from the constituencies of the program, which include students, alumni, employers and members of the industrial advisory board.

Organization: Planning, assigning responsibilities and resources, and assessing specific goals are delegated to appropriate faculty.

~~Evaluation-Assessment~~ of the assessment process: The assessment is periodically reviewed and changes are made based on past performances of the assessment process.

Curriculum review: A periodic (annually or bi-annually) curriculum review is conducted and appropriate changes are made based on inputs from the students, the faculty and the industrial advisory board.

Educational and Professional Advancement: An annual plan is in place to enhance the quality and quantity of exposure and association with national professionals and latest technology to improve both the educational and professional performance

Step 4 – Key assets or products

~~The educational process in the program produces students~~ Graduates who are ready to engage in the engineering profession and/or pursue advanced education in engineering.
~~Another product is includes the e~~ Course material development developed for each course offered in the program.

The processes involved include:

1. Annual alumni survey/Job offers to the alumni of the program
2. Keeping track of applications to graduate programs through their recommendation letters
3. Evaluation of project reports, lab reports and computer simulation assignments
4. Evaluation of oral presentations of senior projects
5. Evaluation of faculty prepared notebook for each course taught by peers and advisory board.

Step 5 - Scope

What is the program

The program prepares students to pursue advanced studies in engineering and engage in the electrical engineering profession.

What is not your program

The program is not a technology program.

The program has currently a computer engineering option which is not a fully fledged computer engineering program.

Step 6

Strengths:

1. Outstanding faculty that is dedicated to the education of their students. Many of the members of the faculty have twenty or more years of experience.
2. A strong commitment and dedication from faculty, staff, current students, our school, and alumni to the mission of the program.
3. Full-time faculty members teach all laboratory courses in the program. They grade and provide detailed feedback to students on the quality of their writing assignments.
4. The students are bright. Their satisfaction with the undergraduate education offered is high. Their satisfaction with program faculty is equally strong.

5. A good reputation and long established history with employers through the past performance of graduates.

Actions for improvement:

1. Maintain consistent high enrollments to provide the associated resources. How: increase outreach to prospective students
2. Improve students' communications skills. How: Introduce technical writing and oral communication workshops
3. Increase students' involvement in multidisciplinary projects. How: Introduce a course on MEMS with the electrical engineering and mechanical engineering programs.
4. Increasing students' involvement in lifelong learning. How: Require that students attend a set number of technical seminars every semester and getting involved in professional society (IEEE) activities.
5. Increase the students' awareness of the ethical and social aspects of the engineering profession. How: Writing of term papers highlighting the impact of engineering in society.

| [Performance Criteria for the program](#)

| Table of Measures?