

Electrical Engineering Technology
Division of Engineering Technology
 Prepared by T. G. Bertenshaw

Degree Program(s) Assessed	Assessment Methods	Number of Individuals Assessed
BSET – Electronics, or Computer Technology, or Telecommunications Technology	The National Fundamentals of Engineering exam in Senior year	15
	Exit surveys from graduating seniors	22
	Employment statistics	24
	Feedback from EETA industrial advisory board	6

Analysis and Findings

Our Assessment Methods must conform to the general closed loop system required by our accreditation agency, TAC/ABET. The heart of the system is implementation of a Continuous Quality Improvement Plan. That plan requires the faculty to review course outcomes versus educational objectives, program outcomes versus TAC/ABET criteria, assimilate feedback from alumni and industry, and then to adjust the program to strengthen the weaknesses. Since the process is continuous, the faculty meet in August and January to review all courses and the overall program, using the data gathered during the interim.

The FE (Fundamentals of Engineering) exam is a national level instrument required of all who wish to eventually attain registered status as a Professional Engineer – it is the first step. Spring 2004 was the first semester that our seniors stood for the entire national exam. The test is broad in scope exercising a student’s mastery of the field of knowledge offered in his/her degree program. The faculty is currently considering changes in the curriculum to facilitate a pass rate of 70%. We still possess weaknesses in:

Curriculum

- a) Circuit analysis with dependent sources
- b) Transformer circuits (reflection of load resistances and induced currents)
- c) Transistor circuits
- d) Mixed voltages (DC and AC combinations)

Program outcomes

- a) Appreciation of diversity

Uses of Assessment Results

In the past results of department specific surveys (which included feedback from alumni), tailored to address the program outcomes as identified by TAC/ABET were used to by the faculty and the Industrial Advisory Council to adjust curriculum emphasis when/where needed. However, our funding for that purpose was removed a few years ago. Again for this year we have had zero funds to allay the costs of preparing and mailing surveys. Until those funds are restored our ability to generate information from that source aspect is extremely limited.