

2008-09 and 2009-10 Program Assessment

Department & Program: Engineering and Design/ BS Electrical Engineering
submitted by: Claudio Talarico

Student Learning Outcome	Time period of assessment activity was completed (2007-08 or 2009-10)	Strategy or method of measurement	Observations gathered from data	Actions recommended based on observations	Plan and timetable for taking action	Overall evaluation of progress on objective
1. design and conduct experiments, as well as analyze and interpret data	Both	embedded questions on assignments and student surveys	The objective has been addressed in a satisfactory manner (> 3.0 on a 4.0 point scale)	Keep observing the data and when necessary adapt teaching methods, topics and technologies	Quarterly gathering of data, and yearly evaluation of the data	The learning objective is still valid
2. develop an understanding of professional and ethical responsibility	Both	in-class and extra-curriculum project assignments, analysis of case studies, participation in professional organizations	The objective has been addressed in a satisfactory manner (> 3.0 on a 4.0 point scale)	Keep observing the data and when necessary adapt teaching methods, topics and technologies. Encourage students active participation in IEEE organization	Quarterly gathering of data, and yearly evaluation of the data	The learning objective is still valid
3. develop a knowledge of contemporary issues in the field	Both	embedded questions on assignments and student surveys	The objective has been addressed in a satisfactory manner (> 3.0 on a 4.0 point scale)	Keep observing the data and when necessary adapt teaching methods, topics and technologies	Quarterly gathering of data, and yearly evaluation of the data	The learning objective is still valid

4. use the techniques, skills and modern engineering tools necessary for engineering practice	Both	in-class project assignments, student survey	The objective has been addressed in a satisfactory manner (> 3.0 on a 4.0 point scale)	Keep observing the data and when necessary adapt teaching methods, topics and technologies	Quarterly gathering of data, and yearly evaluation of the data	The learning objective is still valid
5. design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability,	Both	embedded questions on assignments, portfolios, student surveys, project report and presentation	The objective has been addressed but not in a satisfactory manner as the others (slightly below 3 on a 4.0 point scale)	Changed the emphasis put on the relevant topics in various courses. Cross list the Capstone course to increase interdisciplinarity	Already put in place in Fall 08. Continue with quarterly gathering of data and yearly evaluation of them	The learning objective is still valid
6. communicate effectively	Both	final presentations evaluation, peer team work evaluations, student surveys	The objective has been addressed in a satisfactory manner (> 3.0 on a 4.0 point scale)	Keep observing the data and when necessary adapt teaching methods, and topics emphasis	Quarterly gathering of data, and yearly evaluation of the data	The learning objective is still valid