

Department: Electrical and Computer Engineering (ECE)
Chair: Dr. W.B. Mikhael
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Program Name & CIP Code: Masters of Science in Electrical Engineering - 14.100 Level: Graduate

Unit Mission	Dept./Pgm Intended Outcomes Objectives	Assessment Criteria & Procedures	Assessment Results	Use of Results
<p>To attain excellence of graduate education and research in such areas as communication, digital signal processing, controls/robotics/power, electromagnetic field/antenna, micro-electronics, solid state devices, etc.</p>	<p>1. Graduates will acquire sufficient academic competence for employment.</p>	<p>1.1 At least 85% of graduates who seek employment will attain offers of Electrical Engineering practice within 6 months of graduation.</p> <p>To perform the above assessment use the data from FETPIP. Also, conduct annual departmental faculty surveys to determine whether all thesis-option students are employed.</p> <p>1.2 All graduates must satisfy the depth and breadth requirement of the EE graduate programs.</p> <p>To perform the above assessment, conduct graduation certification using the document Program of Study.</p>	<p>1.1 Data available (88%) indicated that the goal is reached. *</p> <p>1.2 All students satisfy the criterion. *</p>	<p>The goals set for 1.1 & 1.2 are reached; will continue to review for possible enhancement. Otherwise, advice will be sought from EEE industry advisory board, local industry and graduates who are seeking employment.</p>

	<p>2. Graduates will demonstrate overall competence in their areas of interests, including communication skills, computer skills, and problem solving skills (analysis, design and implementation).</p>	<p>2.1 All non-thesis students must demonstrate knowledge in one major area and two minor areas. To perform the above assessment, pass a comprehensive examination. 2.2 Thesis-option students must demonstrate knowledge in depth on the topic of research. To perform the above assessment, evaluate each student by thesis committee.</p>	<p>2.1 Data available (100%) indicated that the goal is reached.* 2.2 Data available (100%) indicated that the goal is reached.*</p>	<p>The goals set for 2.1 & 2.2 are reached; will continue to review for possible enhancement. Otherwise, identify weakness of the EE curriculum from the surveys, followed by corrections.</p>
	<p>3. Students are recognized by their employers for their knowledge and skills in solving real world problems and for their professionalism.</p>	<p>3.1 At least 85% of employers of graduates, with respect to meeting the expectations, will rate our graduates as "average", "above average" or "exceptional" when compared to graduates from other EE programs. To perform the above assessment, conduct an employer survey (Once every five years; questions D, 2, 3, and 4).</p>	<p>3.1 Data available (97%) indicated that the goal is reached.*</p>	<p>The goal set for 3.1 & 3.2 are reached; will continue to review for possible enhancement. Otherwise solicit input from the employers for program modifications.</p>

		<p>3.2 All major employers of EE M.Sc. graduates are satisfied with the EE program in generating well educated graduates.</p> <p>To perform the above assessment, conduct an annual review of the EE curriculum by the ECE Industrial Advisory Board (IAB) for possible improvement in all areas.</p>	<p>3.2 1996 IAB meeting gave no recommendations for change. *</p>	
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* With the exception of FETPIP and COE exit survey, all other data available are inter-disciplinary and therefore may be used for more than one program.