

Department: Electrical and Computer Engineering (ECE)

Chair: Dr. W.B. Mikhael

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Program name and CIP Code: Ph. D. in Electrical Engineering 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 E.E. 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 90% 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 graduates 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 from FETPIP indicated that the goal is reached. A level of 100% employment was obtained.</p> <p>1.2 All students satisfy the criterion.</p>	<p>The goal is reached; will continue to review the criteria for possible enhancement. Otherwise, advice will be sought from EE 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. All graduates must demonstrate knowledge in his areas of research. To perform the above assessment, pass a qualifying examination and have the student's final defense reviewed by the dissertation committee.</p>	<p>Data available (100%) Indicated that the goal is reached.</p>	<p>The goal is reached; will review for possible enhancement. Otherwise, identify weakness of the EE curriculum from the surveys, followed by corrections.</p>
	<p>3. Graduates will be able to conduct independent research and publish their in their scientific societies.</p>	<p>3. All graduates will publish at least one referenced paper about their Ph.D. research within two years of their graduation. To perform the above assessment, conduct an annual faculty survey about their graduates.</p>	<p>Data available (100%) indicated that the goal is met.</p>	<p>The goal is reached; will review for possible enhancement. Otherwise, review Ph.D. degree requirements and procedures and develop programs to enhance scholarly activities of Ph.D. students and their advisors.</p>
	<p>4. Students are recognized by their employers for their knowledge and skills in solving real world problems and for their professionalism.</p>	<p>4.1 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.</p>	<p>4.1 Data available (98%) at the university and college levels indicated that the goal is reached. [1]</p>	<p>The goal is reached; will review for possible enhancement. Otherwise, solicit inputs from the employers for program modifications.</p>

		<p>To perform the above assessment, conduct an employer survey (once every five years; questions D, 2, 3, and 4).</p> <p>4.2 All major employers of EE Ph.D. 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>4.2 Data available from 1998 IAB meeting indicates 100% satisfaction level.</p>	
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[1] With the exception of FETPIP survey, and IAB Questionnaire, all other data available are inter-disciplinary and therefore may be used for more than one program.