Assessment: Assessment Plan

Degree Program - ENG - Electrical Engineering (MSEE)

CIP Code: 14.1001.00
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Program Purpose Statement: The mission of Texas Tech University is to provide the highest standard of excellence in higher education while pursuing continuous quality improvement, stimulating the greatest degree of meaningful research, and supporting faculty and staff in satisfying those we serve. The Department of Electrical and Computer Engineering supports the mission of the university through its undergraduate programs by providing students with appropriate curricula and educational experiences. The curricula remain current through continuing assessment by employers, alumni, faculty, and students. Students obtain a broad education necessary to understand the impact of electrical and computer engineering solutions in a global, societal, and environmental context.

Modality: Face-to-Face

Student Learning Outcome: Core Knowledge

Students will demonstrate advanced knowledge in a core area consistent with the focus of their program.

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 06/13/2015

Assessment Methods

Standardized Test - Take the Fundamentals of Engineering (FE) (Active)
Criterion: 85% of students will pass the Fundamentals of Engineering (FE)
Schedule: Once

Thesis - Students who take the thesis option should be evaluated by the MS committee. (Active)
Criterion: 100% of students taking the thesis option should meet the requirements of the thesis committee and the graduate school.
Schedule: Once

Student Learning Outcome: Research Methods and Analysis

Students will demonstrate quantitative and qualitative skills in the design, analysis, and presentation of supervised research projects that is consistent with the focus of their program.

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 06/13/2015

Assessment Methods

Thesis - Write a thesis on the research conducted during the study of the MS. (Active)
Criterion: 95% of students taking the MS thesis option will pass the ECE department and the graduate school requirement for
### Student Learning Outcome: Scholarly Communication

Students will produce written and oral communications of quality, as consistent with the focus of their program.

**Outcome Status:** Active  
**Outcome Type:** Student Learning  
**Start Date:** 06/13/2015

**Assessment Methods**

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
<th>Schedule</th>
<th>Active Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thesis</td>
<td>Students will write a thesis on their research. Students will also present their work to the MS thesis committee.</td>
<td>Once</td>
<td>Active</td>
</tr>
<tr>
<td>Criterion</td>
<td>100% of students working on a thesis will write a thesis that will meet the requirements of the thesis committee.</td>
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<tr>
<td>Peer Assessments</td>
<td>Students will present their work at conferences.</td>
<td>Once</td>
<td>Active</td>
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<tr>
<td>Criterion</td>
<td>40% of MS students will give presentations on their research at a conference.</td>
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</tbody>
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### Student Learning Outcome: Professionalism

Students will know and participate in the intellectual and organizational aspects of the profession as applicable to the major area of study including the ethical conduct of research.

**Outcome Status:** Active  
**Outcome Type:** Student Learning  
**Start Date:** 06/13/2015

**Assessment Methods**

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<th>Method</th>
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<th>Active Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Development Activities</td>
<td>Students will attend professional seminars and conferences.</td>
<td>Once per year</td>
<td>Active</td>
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<tr>
<td>Criterion</td>
<td>90% of students will attend a professional seminar or conference.</td>
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<tr>
<td>Senior Exit Interview</td>
<td>Students will be asked if they participated in professional activities from the exit interview.</td>
<td>Once</td>
<td>Active</td>
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<tr>
<td>Criterion</td>
<td>50% of students will give a positive response for participation in professional organization in the major area of study.</td>
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