Assessment: Assessment Plan

TEXAS TECH UNIVERSITY
Office of the Provost
Office *of* Planning & Assessment™

Degree Program - ENG - Computer Science (PHD)

CIP Code: 11.0101.00

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Modality: Face-to-Face

Student Learning Outcome: SLO 1

Students will demonstrate an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2019

Assessment Methods

Qualifying Exam - Qualifying Exam (Active)
Criterion: At least 80% of students who admited to the Ph.D. program should pass their qualifying exam within the first 2 years after the admission

Course Level Assessment - Course work (Active)
Criterion: at least 80% of the Ph.D. students, have overall GPA of at least B or above

Survey - Student - Survey (Active)
Criterion: on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

Student Learning Outcome: SLO 2

Students will demonstrate an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/19/2019

Assessment Methods

Field Placement/Internship - Internship (Active)
Criterion: At least 50% of the PhD students should take internship

Participation - Participate in Research (Active)
Criterion: at least 80% of the students should formulate their research within the first 2 years of their program and present it

publicly

Survey - Student - Survey (Active)
Criterion: on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

Student Learning Outcome: SLO 3

Students will demonstrate an ability to communicate effectively with a range of audiences

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/19/2019

Assessment Methods

Participation - Participate in Seminars (Active)
Criterion: At least 100% of the PhD student should participate in a stipulated number of seminars per year

Professional Development Activities - Present a technical research topic (Active)
Criterion: At least 80% of PhD student should present a technical research topic once per year at a professional event

Survey - Student - Survey (Active)
Criterion: on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

Student Learning Outcome: SLO 4

Students will demonstrate an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2019

Assessment Methods

Field Placement/Internship - Internship (Active)
Criterion: At least 50% of the PhD students should take an internship position

Professional Development Activities - Publication (Active)
Criterion: At least 80% of PhD student should publish their research work in peer reviewer venues at least once in a 2 year.

Survey - Student - Survey (Active)
Criterion: on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

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Student Learning Outcome: SLO 5

Students will demonstrate an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2019

Assessment Methods

Professional Development Activities - Active Research (Active)
Criterion: at least 80% of the PhD students are active in their research group's meeting and presentations

Professional Development Activities - Collaborative Research (Active)
Criterion: at least 80% of the PhD students should publish their work collaboratively with their labmates/collaborators

Survey - Student - Survey (Active)
Criterion: on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

Student Learning Outcome: SLO 6

Students will demonstrate an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2019

Assessment Methods

Participation - Participate in Research (Active)
Criterion: at least 80% of the students should publish their research within the first 2 years of their program

Professional Development Activities - Publications and Reports (Active)
Criterion: at least 80% of the students should develop at least a technical report/article every year

Survey - Student - Survey (Active)
Criterion: on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

Student Learning Outcome: SLO 7

Students will demonstrate an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2019

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Assessment Methods

Professional Development Activities - Publication (Active)
Criterion: at least 80% of the PhD students should publish their work as the first author

Professional Development Activities - Attend Conference (Active)
Criterion: at least 80% of the PhD student should attend professional meetings once per year

Survey - Student - Survey (Active)
Criterion: on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question