Assessment: Assessment Plan

Degree Program - ENG - Mechanical Engineering (PHD)

CIP Code: 14.1901.00
Disciplinary Accrediting Body: ABET
Next Accrediting Agency Review: 15-16
Degree Program Coordinator: Nurcan Bac
Degree Program Coordinator Email: nurcan.bac@ttu.edu
Modality: Face-to-Face

Student Learning Outcome: Independent Doctoral Research

Doctoral students will conduct independent research resulting in an original contribution to knowledge in the focused area of their program.

Outcome Status: Active
Outcome Type: Student Learning

Assessment Methods

**Qualifying Exam** - Successful completion of qualifying exam, comprised of a written and an oral part. Passing grade is 70% for each subject. (Active)

**Criterion:** At least 80% of the students score 70% for each subject (3 total) included in the qualifying exam.

**Dissertation** - Successful dissertation defense. (Active)

**Criterion:** At least 95% of the PhD students successfully defend their PhD dissertation.

**Student Projects** - Publication of papers peer reviewed indexed papers in appropriate academic journals. (Active)

**Criterion:** Students will have 3 journal papers submitted/published for at least 80% of the students by the time of their graduation.

Student Learning Outcome: Doctoral Written and Oral Communications

Doctoral students will produce written and oral communications of the highest quality.

Outcome Status: Active
Outcome Type: Student Learning

Assessment Methods

**Professional Development Activities** - Doctoral students will successfully complete a poster session, conference presentation, or seminar presentation at a national/international/TTU conference prior to graduation. (Active)

**Criterion:** Students will complete at least 3 presentations (poster, conference, or seminar) during their study. At least 1 out of the 3 presentations should be external.
## Faculty Assessment
Department will determine a method to evaluate the quality of the academic work presented in a poster session, conference presentation, etc. (Active)

## Student Projects
Submission of papers for publication to appropriate academic journals (Active)

**Criterion:** Students will have 3 journal papers submitted/published for at least 80% of the students by the time of their graduation.