

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.

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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.