

# Assessment: Assessment Plan

## Degree Program - ENG - Mechanical Engineering (BSME)

**CIP Code:** 14.1901.00

**Disciplinary Accrediting Body:** ABET

**Degree Program Coordinator:** Nurcan Bac

**Degree Program Coordinator Email:** nurcan.bac@ttu.edu

**Program Purpose Statement:** The mission of the department is to offer students nationally recognized educational opportunities grounded in the fundamentals of mechanical engineering and involving state-of-the-art technology. The department programs support technological development and innovation to meet many goals, including the needs of society. Faculty and student participation in design projects, research, or other similar activities is considered essential to their professional development. The education opportunities are to take place in a collegial environment of effective instruction and counsel.

**Modality:** Face-to-Face

### Student Learning Outcome: ABET Criterion 3.1

An ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics.

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 08/23/2018

#### Assessment Methods

Rubrics (Active)

**Schedule:** See attached excel file for assessment schedule

**Related Documents:**

[SO\\_1\\_7\\_and MEBS\\_courses\\_relationship table.xlsx](#)

### Student Learning Outcome: ABET Criterion 3.2

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:** 08/23/2018

#### Assessment Methods

Rubrics (Active)

**Schedule:** Please see attached excel file for assessment schedule

**Related Documents:**

[SO\\_1\\_7\\_and MEBS\\_courses\\_relationship table.xlsx](#)

# Degree Program - ENG - Mechanical Engineering (BSME)

## Student Learning Outcome: ABET Criterion 3.3

An ability to communicate effectively with a range of audiences.

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 08/23/2018

### Assessment Methods

Rubrics (Active)

**Schedule:** Please see attached excel file for assessment schedule

**Related Documents:**

[SO\\_1\\_7\\_and MEBS\\_courses\\_relationship table.xlsx](#)

## Student Learning Outcome: ABET Criterion 3.4

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:** 08/23/2018

### Assessment Methods

Rubrics (Active)

**Schedule:** Please see attached excel file for assessment schedule

**Related Documents:**

[SO\\_1\\_7\\_and MEBS\\_courses\\_relationship table.xlsx](#)

## Student Learning Outcome: ABET Criterion 3.5

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:** 08/23/2018

### Assessment Methods

Rubrics (Active)

**Schedule:** Please see attached excel file for assessment schedule

**Related Documents:**

[SO\\_1\\_7\\_and MEBS\\_courses\\_relationship table.xlsx](#)

## Student Learning Outcome: ABET Criterion 3.6

An ability to apply both analysis and synthesis in the engineering design process, resulting in designs that meet desired needs.

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**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 08/23/2018

## Assessment Methods

Rubrics (Active)

**Schedule:** Please see attached excel file for assessment schedule

**Related Documents:**

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## Student Learning Outcome: ABET Criterion 3.7

An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 08/23/2018

## Assessment Methods

Rubrics (Active)

**Schedule:** Please see attached excel file for assessment schedule

**Related Documents:**

[SO\\_1\\_7\\_and MEBS\\_courses\\_relationship table.xlsx](#)