

Academic year 2024-2025

**MES-Mechanical Engineering - MES-MSME Learning Outcomes**

**Student Learning Outcome #1**

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

| MEASURES  | RESULTS  | ACTIONS   |
|---|--|---|
| <b>ENGR 5391 Thesis</b><br><br>Direct - Assignment<br><i>Thesis: ENGR 5391</i><br><b>Target</b><br><br>75% of the students will achieve a score of 3 out of 4 or above. | <b>Analysis</b><br><br>No thesis student graduated this year, and therefore, no data is collected. | <b>Other - [Student recruiting]</b><br><b>COMPLETE</b><br><br>Encourage faculty to recruit more thesis students |
| <b>Student Survey</b><br><br>Indirect - Survey<br><b>Target</b><br><br>75% of the students will achieve a score of 3 out of 4 or above.                                 | <b>Analysis</b><br><br>No thesis student graduated this year, and therefore, no data is collected. | <i>No actions have been added.</i>  |

**Student Learning Outcome #2**

Students will demonstrate an ability to develop and conduct appropriate experimentation or numerical simulation, analyze and interpret data, and use engineering judgment to draw conclusions and produce solutions appropriately.

| MEASURES  | RESULTS  | ACTIONS   |
|---|--|---|
| <b>ENGR 5391 Thesis</b><br><br>Direct - Assignment<br><i>Thesis: ENGR 5391</i><br><b>Target</b><br><br>75% of the students will achieve a score of 3 out of 4 or above. | <b>Analysis</b><br><br>No thesis student graduated this year, and therefore, no data is collected. | <b>Other - [Student recruiting]</b><br><b>COMPLETE</b><br><br>Encourage faculty to recruit more thesis students |
| <b>Student Survey</b><br><br>Indirect - Survey<br><b>Target</b><br><br>75% of the students will achieve a score of 3 out of 4 or above.                                 | <b>Analysis</b><br><br>No thesis student graduated this year, and therefore, no data is collected. | <i>No actions have been added.</i>  |

### Student Learning Outcome #3

Students will demonstrate an ability to use modern engineering tools to produce engineering analysis in a systematic manner.

| MEASURES  | RESULTS  | ACTIONS   |
|---|--|---|
| <b>ENGR 5391 Thesis</b><br><br>Direct - Assignment<br><i>Thesis: ENGR 5391</i><br><b>Target</b><br><br>75% of the students will achieve a score of 3 out of 4 or above. | <b>Analysis</b><br><br>No thesis student graduated this year, and therefore, no data is collected. | <b>Other - [Student recruiting]</b><br><b>COMPLETE</b><br>Encourage faculty to recruit more thesis students |
| <b>Student Survey</b><br><br>Indirect - Survey<br><b>Target</b><br><br>75% of the students will achieve a score of 3 out of 4 or above.                                 | <b>Analysis</b><br><br>No thesis student graduated this year, and therefore, no data is collected. | <i>No actions have been added.</i>  |

### Student Learning Outcome #4

Students will demonstrate an ability to complete a master thesis and effectively communicate the thesis work with a range of audiences.

| MEASURES  | RESULTS  | ACTIONS   |
|---|--|---|
| <b>ENGR 5391 Thesis</b><br><br>Direct - Assignment<br><i>Thesis: ENGR 5391</i><br><b>Target</b><br><br>75% of the students will achieve a score of 3 out of 4 or above.         | <b>Analysis</b><br><br>No thesis student graduated this year, and therefore, no data is collected. | <b>Other - [Student recruiting]</b><br><b>COMPLETE</b><br>Encourage faculty to recruit more thesis students |
| <b>ENGR 5391 Oral Defense</b><br><br>Direct - Presentation<br><i>Thesis: ENGR 5391</i><br><b>Target</b><br><br>75% of the students will achieve a score of 3 out of 4 or above. | <b>Analysis</b><br><br>No thesis student graduated this year, and therefore, no data is collected. | <i>No actions have been added.</i>  |