

Mechanical Engineering

MS Learning Outcome Assessment

Student Name: _____

Date: _____

Evaluator: _____

Please use both the thesis and the thesis defense to assess student mastery of the Mechanical Engineer (ME) MS program's learning outcomes (LOs). These learning outcomes are as follows:

- LO1. Solve, analyze, evaluate, and interpret results of complex mechanical engineering problems.
- LO2. Analyze and critically evaluate information from the scientific literature on mechanical engineering.
- LO3. Conduct mechanical engineering research, apply mechanical engineering concepts and tools to research problems, and interpret results of mechanical engineering research.
- LO4. Demonstrate the ability to communicate effectively mechanical engineering theories and methodologies and the results of a research study.

| Evaluation item | Does not meet expectation | Meets Expectation | Exemplary Performance |
|---|---------------------------|-------------------|-----------------------|
| Solve and analyze fundamental mechanical engineer problems (LO1) | | | |
| Evaluate and interpret results to fundamental mechanical engineer problems (LO1) | | | |
| Analyze and critically evaluate state-of-the-art in mechanical engineering related to the research (LO2) | | | |
| Appropriately define a mechanical engineering research problem and its relevance to the field and society (LO3) | | | |
| Apply state-of-the-art mechanical engineering concepts and tools to research problems (LO3) | | | |
| Interpret results of mechanical engineering research (LO3) | | | |
| Communicate effectively in writing (LO4) | | | |
| Communicate effectively orally (LO4) | | | |

Signature of Evaluator: _____

Date: _____