

ENGM 599: Master Thesis

Course Description

In this course, students will write a final thesis project applying the knowledge and skills they have learned in the classroom. The topics chosen will reflect the students' aspirations to contribute novel insights to the field of engineering management, with the potential to influence real organizational decisions and strategies. Throughout the course, students will identify a research question or a problem within an organization, conduct a comprehensive literature review, and apply appropriate research methodologies and tools to address the research question or problem. Lastly, students will draw meaningful interpretations from the data and relate findings back to the literature or broader business implications.

Course Learning Outcomes

By the end of the course, students will be able to:

1. Demonstrate critical knowledge and understanding of the current challenges in the engineering field and the specialized methods and tools used to study them.
2. Undertake significant investigation into new situations, issues, and/or problems using professional skills and specialized research methods.
3. Critically analyze information and data using robust data analysis methods to extend existing knowledge.
4. Communicate engineering management research findings professionally in a written and oral format.
5. Synthesize professional and leadership competencies by integrating research and project management skills throughout the thesis/project development and presentation process.
6. Conduct a thesis/project considering ethical, social, and environmental norms, ensuring a commitment to socially responsible and sustainable practices and considerations.

Learning Resources

NA

Course Content

NA