

# Mechanical Engineering

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Course Learning Outcomes are measurable statements that are used to identify the specific knowledge and skills that a student should have at the end of a course.

ME 1105

L1- Develop a basic knowledge of solid modeling.

ME 1165

L1- Develop an ability to use modern engineering tools to solve problems.

ME 2220

L1- To develop an ability to identify, formulate, and solve engineering problems.

ME 3307

L1- To develop an ability to identify, formulate, and solve engineering problems.

ME 3320

L1- Develop an ability to apply knowledge of mathematics, science, and engineering.

L2- To develop an ability to design a system, component, or process to meet desired needs within realistic constraints.

L3- To develop an ability to identify, formulate, and solve engineering problems.

L4- To develop an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

ME 3323

L1- Develop an ability to apply knowledge of mathematics, science, and engineering.

L2- To develop an ability to design a system, component, or process to meet desired needs within realistic constraints.

L3- To develop an ability to identify, formulate, and solve engineering problems.

L4- To develop an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

ME 3341

L1- To develop an ability to identify, formulate, and solve engineering problems.

ME 3350

L1- To develop an ability to identify, formulate, and solve engineering problems.

ME 3353

L1- Introduce manufacturing processes to students and their effect on the environment.

ME 3355

L1- Demonstrate an understanding of coupled dynamical physical systems, and the ability to model, simulate, and analyze such systems.

ME 4406

L1- Develop an ability to apply knowledge of mathematics, science, and engineering.

L2- To develop an ability to design and conduct experiments, as well as to analyze and interpret data.

L3- To develop an ability to communicate effectively through written, oral, and graphical media.

L4- To develop an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

ME 4416

L1- Demonstrate an understanding of exergy and power cycles.

ME 4425

L1- To develop an ability to identify, formulate, and solve engineering problems.

L2- To develop an ability to design a system, component, or process to meet desired needs within realistic constraints.

L3- To develop an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

ME 4440

L1- Develop an ability to apply knowledge of mathematics, science, and engineering.

L2- To develop an ability to design a system, component, or process to meet desired needs.

ME 4443

L1- Develop an ability to design and conduct experiments, as well as to analyze and interpret data.

ME 4451

L1- Develop an ability to identify, formulate, and solve engineering problems.

ME 4465

L1- Develop an ability to design a system, component, or process to meet desired needs.

L2- Develop an ability to use modern engineering tools

ME 4476

L1- Develop an ability to identify, formulate, and solve engineering problems.

L2- Develop an ability to apply a knowledge of mathematics, interdisciplinary science, and engineering.

ME 4496A

L1- Develop an ability to function in multi-disciplinary teams.

L2- Develop an ability to communicate effectively.

L3- Research and gather information and develop and understanding of ethical and contemporary Issues in Engineering.

ME 4496B

L1- Develop an ability to function in multi-disciplinary teams.

L2- Develop an ability to communicate effectively.

L3- Evaluate the impact of engineering solutions in a global, economic, environmental, and societal context.

L4- Ability to perform mechanical engineering design.