



Bachelor of Science in Mechanical Engineering (BSME)

Program Educational Objectives of Mechanical Engineering

The mechanical engineering alumni three to five years after graduation shall:

1. Successfully practice in mechanical and thermal systems for the advancement of society.
2. Promote professionalism in mechanical engineering practice.

Student Outcomes

The following skills, knowledge, and behaviors are expected to be attained by students as they progress through the program:

- a. Ability to identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics
- b. Ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- c. Ability to communicate effectively with a wide range of audiences
- d. Ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, environmental and societal contexts
- e. 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
- f. Ability to develop and conduct appropriate experimentations, analyze and interpret data, and use engineering judgment to draw conclusions
- g. Ability to acquire and apply new knowledge as needed using appropriate learning strategies