

Program Educational Objectives of Mechanical Engineering

The Bachelor of Sciences in Engineering — Mechanical Engineering program has several objectives:

1. Our graduates will apply acquired technical capabilities when solving engineering problems or in their graduate studies in mechanical engineering or other fields.
2. Our graduates will use acquired professional skills to work effectively with colleagues and others in the work-place.
3. Our graduates will demonstrate a sense of responsibility as a professional member of society.

Program Educational Outcomes of Mechanical Engineering

1. Our graduates will apply acquired technical capabilities when solving engineering problems or in their graduate studies in mechanical engineering or other fields. The objective outcomes are:
 - a. Fundamental knowledge of state-of-the-art and evolving areas associated with the mechanical engineering field.
 - b. Ability to design and conduct experiments, analyze data, and utilize statistical methods.
 - c. Ability to solve open-ended design problems.
 - d. Ability to use modern computational techniques to solve engineering problems.
 - e. Ability to mathematically model and analyze engineering systems.
2. Our graduates will use acquired professional skills to work effectively with colleagues and others in the work-place. The objective outcomes are:
 - a. Oral and written presentation of technical information.
 - b. Introductory knowledge of economics.
 - c. Working on a multi-disciplinary team with peers.
 - d. Motivation to pursue lifelong learning.
3. Our graduates will demonstrate a sense of responsibility as a professional member of society. The objective outcomes are:
 - a. Commitment to professional and ethical behavior in the workplace.
 - b. Awareness of world affairs and cultures.
 - c. Recognition of the impact of engineering on local and global societies.
 - d. Seeking professional licensure.