

Program Educational Objectives (PEOs) – Mechanical Engineering Program

The Program Educational Objectives represent the aspirations expected from graduates of the Mechanical Engineering Department to achieve several years after graduation through applying professional knowledge, skills, and ethical values in their professional and academic lives.

1. Building a Strong Scientific and Engineering Foundation (PEO-1)

The program aims to provide students with a comprehensive understanding of the fundamental principles in:

- Mathematics
- Engineering sciences
- Technical and engineering skills

This is intended to prepare graduates to work efficiently and successfully in the field of mechanical engineering and related disciplines.

✓ **Expected Outcome:** Graduates possess a strong scientific and engineering foundation.

2. Developing Engineering and Design Capabilities (PEO-2)

The program focuses on developing students' abilities in:

- Formulating and analyzing engineering problems
- Creative thinking and innovation
- Critical analysis of information
- Teamwork and collaboration
- Adherence to professional standards and practices

✓ **Expected Outcome:** Graduates possess the ability to solve problems, work within engineering teams, and design practical solutions.

3. Commitment to Ethics and Professional Responsibility (PEO-3)

The program aims to strengthen students' awareness of the importance of:

- Ethical responsibilities
- Professional responsibilities

during the practice of the mechanical engineering profession.

✓ **Expected Outcome:** Graduates demonstrate professional ethics and responsibility in the workplace.

4. Continuous Professional Development and Future Success (PEO-4)

The program encourages graduates to build successful professional careers through:

- Graduate studies
- Professional certifications
- Entrepreneurship and engineering projects

✓ **Expected Outcome:** Graduates continue their professional and academic development and actively contribute to society.