

Faculty Members

Faculty members of the ME department are locally internationally recognized. They are active in both research and community service. They publish their research papers in highly mark ranked international journals and provide consultation for most KSA companies.

Laboratories

The ME Department has several laboratories used for undergraduate studies. Labs are equipped with modern facilities, top of line equipments, and several computer softwares. Labs include Materials Engineering & Mechanics of Materials, Mechanics of Machinery, CAD/CAM, Thermo fluid Mechanics, Measurement and instrumentation, Mechatronics, Dynamics and control.



FOR FURTHER
INFORMATION, PLEASE CONTACT:



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The Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>.



Engineering
Accreditation
Commission

Department of Mechanical Engineering



Mechanical Engineering Department

The ME department was established during the academic year 1427-1428H / 2007-2008G. The vision of the ME department is to be one of the distinguished mechanical engineering departments in the Kingdom of Saudi Arabia. This vision is realizable through fostering the education of stellar students and by contributing to the base of mechanical engineering research.

The ME department offers two undergraduate programs (Mechanical Engineering and Industrial Engineering). ME programs are designed according to the international standards and criteria of engineering education. They support the development plans of KSA in preparing graduates to fit into different job sectors. The curriculum of ME program provides solid engineering background with the flexibility to choose elective courses from several option areas: Mechatronics, Non Destructive Testing, Heat Transfer & Fluid Mechanics, Design and Manufacturing, and Materials Engineering. ME department has several undergraduate laboratories which give students hands on experience in many engineering fields and help them to pursue engineering career.

Mission

To graduate qualified mechanical engineers equipped with knowledge, modern technical tools, and inspired with ethical and professional values that will prepare them to be successful in a mechanical engineering career and motivate them for post graduate studies so they can significantly contribute to the development of their community.

Mechanical Engineering Program

The department offers a comprehensive and integrated program that allows the student to develop solid basis in different mechanical engineering disciplines. In addition, the program has been designed to give the student the opportunity to select one of the following five areas of specialty where he can study in more depth to satisfy his own area of interest:

- Mechatronics
- Non Destructive Testing
- Materials Engineering
- Design and Manufacturing
- Heat Transfer and Fluid Mechanics

Industrial Engineering B.Sc. Program

Industrial Engineering (IE) is concerned with analysis, design and implementation of the integrated production systems. A major distinction between IE and other engineering disciplines is that, the IE considers 3M (Man, Machine, and Money) as a single integrated system and its principles are equally applied in industry, manufacturing, service, and many governmental sectors.

Program Educational Objectives (PEOs)

Mechanical Engineering Department is preparing graduates to:

- **Program Educational Objective #1 (PEO1):** Practice mechanical engineering in the general areas in industry and government.
- **Program Educational Objective #2 (PEO2):** Pursue leadership positions in their career.
- **Program Educational Objective #3 (PEO3):** Achieve membership in national and international professional organizations.
- **Program Educational Objective #4 (PEO4):** Seek post graduate education, new knowledge, and advanced technology in mechanical engineering.



Student Outcomes (SOs)

Mechanical Engineering Program adopted the ABET 1-7 student outcomes that are listed below:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an 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
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an 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.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Career Opportunities

Mechanical Engineering Department prepares students for a wide range of careers. The graduates can look forward to bright and challenging careers in industry, research and development, manufacturing, management, and other exciting fields. ME and IE programs graduates have opportunities for employment in public and private companies.