

Department Overview ...

The Mechanical Engineering Department at the Hashemite University was established in 1998 and it received its first group of students for the B.Sc. in Mechanical Engineering in 1999.

Since then the department grew in a very impressive way to establish itself as one of the leading engineering departments in the country.



Currently, it has 18 faculty members, holding Ph.D. degrees from a diverse group of world-renowned universities, teaching more than 950 students in modern facilities and laboratories.

During the past years, the achievements of the Mechanical Engineering Department at the Hashemite University have been recognized at the national level through the results of the graduates of the department in the national University Achievement Exam.

The department also plays an important roll in active research both nationally and internationally; participating in various research partnerships. The latest being Distributed Knowledge-Based Energy Saving Networks (DISKNET) funded by the European under the 7th FWP (Seventh Framework Program).

Departments' Vision:

To achieve regional and international recognition for preparing high quality mechanical engineering graduates, conducting outstanding research and providing exceptional community service.

Accreditation and Quality Assurance:

Locally the department of Mechanical Engineering holds the Ministry of Higher Education Special Accreditation Status based on the Accreditation criterion set by Accreditation and quality Assurance Commission for Higher Education Institutions, which is an independent commission that oversees the works of local (Jordanian) Higher Education Institutions to ensure the quality of graduates locally and globally.



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The Hashemite University

Faculty of Engineering

Mechanical Engineering
Department



Departments' Mission:

The Mechanical Engineering program (ME) mission contributes towards achieving the mission of the Faculty of Engineering well as the mission of The Hashemite University (HU).

The mission of ME is to provide high quality education in mechanical engineering and leadership, life-long learning opportunities, research and community service in the field of mechanical engineering and innovation for the benefit of Jordan and the world.

B. Sc. Program:

The Mechanical Engineering Department offers a five years general program that leads to B. Sc. in mechanical engineering. During his study the student takes several courses in engineering, science and computer in addition to courses in other fields that help him in his professional life.

The number of credit hours in the offered program is 160.

B. Sc. Program Objectives:

Few years after graduation, graduates of the Mechanical Engineering Program are expected to be able to:

PEO 1: Apply scientific and technical foundation in fields of Mechanical engineering involving planning, analysis, design, and solution of Mechanical engineering problems.

PEO 2: Pursue a successful professional career in local and regional markets or higher studies and research in the field of mechanical engineering.

PEO 3: Effectively communicate and function in various multidisciplinary environments and applying the highest ethical and professional standards to solving the mechanical engineering problems.

PEO 4: Preserve the intellectual awareness for life-long learning as well as contemporary issues for modern societies in the field of mechanical

Staff:

In the mechanical engineering department there is a total of 18 capable ambitious and diverse faculty members. Two of them are full Professors Six Associate Professors and Eight Assistant Professors in addition the department has seven lab Engineers.



Research interests and activities

The Mechanical Engineering Department is considered as one of the most active departments in research; some of the fields of research are:

- Energy, renewable energy and heat transfer.
- Fluid Mechanics, CFD, experimental fluid mechanics and multiphase flow.
- Vibration and nonlinear dynamics.
- Machinery and Control.
- Stress analysis and Materials.
- Green Composites.
- Stress and Strain Concentration.
- Fracture Mechanics.



Laboratories:



Currently the department of mechanical engineering houses ten laboratory rooms offering a wide range of practical experiments aimed at implementing the various mechanical principles taught to students thru their Bachelor degree studies.

Practical experiments taught to students are given within the following courses:

1. Strength of materials Lab.
2. Thermal 1 Lab.
3. Thermal 2 Lab.
4. Fluid Lab.
5. Vibration and Control Lab.

As well as a specialized course given to students about 3D modeling for mechanical parts and assemblies, taught using a designated computer room equipped with the latest hardware and specialized software.

