

**Igniting Minds;
Expanding horizons**

BEng. Mechanical Engineering

Designed in line with ABET requirements

BEng. Mechanical Engineering has two concentrations:

- Industrial Automation and Control
- Energy Systems Engineering



الجامعة الوطنية
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العلوم والتكنولوجيا
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About this program

BEng Mechanical Engineering program is a four-year degree program for those who want to gain knowledge in mechanical engineering to pursue a career in industry or continue in graduate studies. Students can study the core Mechanical Engineering program or select one of the program concentrations listed below to satisfy the requirements for the BEng degree in Mechanical Engineering;

1. Industrial Automation and Control
2. Energy Systems Engineering

Industrial Automation and Control

This concentration is developed in line with Oman's Manufacturing Strategy so that it will aid in identifying and developing automation and controls knowledge and techniques used in the industry with a focus on the ever-increasing demands of manufacturing, oil and gas engineering process and linked to 4IR. The courses are developed to aid to instill knowledge of programming of PLC systems, high-level programming language, development of industrial automation production systems and control, Robotics in manufacturing industries.

Energy Systems Engineering

This concentration is developed in line with the Oman National priorities viz. Natural Resources and Environmental Sustainability. The concentration drives with the application of conserving techniques and renewable energy sources for reduced energy consumption. It deals with the design and development of technologies for harvesting renewable energy resources, energy storage technologies and conserving techniques,

energy audit, energy economics and energy efficiency approaches to remain competitive.

Career Opportunities

The mechanical engineering graduates will pursue their career in the fields and occupations as practicing engineers, entrepreneurs, teachers and researchers. Most often, they find employment opportunities in the mechanical industries relating to their specialization, as CAD/Design engineers, inventory/planning engineers, installation and operation engineers, maintenance engineers and shop floor/production engineers. Graduates of BEng Mechanical Engineering program transform their learning experience and skills to develop successful careers and practice mechanical engineering and allied fields of study in a broad range of industries. They would also strive to pursue advanced education, research and development, and other creative and innovative efforts in science, engineering, and technology in order to take part in the nation building initiatives.

Extracurricular Opportunities:

Social, recreational and extracurricular services and facilities are fully supported by the college as part of the strategic plan to build graduate competence in terms of rounded individuals who espouse the values of leadership and entrepreneurialism. The students have a plethora of opportunities to engage with established student chapters of professional bodies which aim to expose the students to international professionals to have the benefits of updating with recent technological news and to interact with engineers and professionals across the world.

Established student chapters of MIE Department



Open opportunities to be a member of reputed international professional bodies such as:

- American Society of Mechanical Engineers (ASME)
- Institution of Mechanical Engineers
- American Institute of Chemical Engineers
- Society of Petroleum Engineers (SPE)

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