



BSc in MECHANICAL ENGINEERING

About the program

The program provides a comprehensive engineering education in mechanics, thermo-fluids, manufacturing, and controls and automation. Complex mechanical systems involve structures, advanced materials, sensors, and thermo-fluid systems. It includes the study and application of the principles of engineering to a broad range of systems, ranging from nano-devices to large-scale power plants.

This program develops highly qualified mechanical engineers involved in a wide range of economic sectors, including manufacturing, heating, refrigeration and air-conditioning; structural design, vehicle engineering, robotics, fabrication, processing and testing of materials; desalination and water treatment, nuclear engineering, renewable and sustainable energy and the environment etc.

Minors

The minor in Nuclear Engineering exposes the students to nuclear physics, power-plant engineering, and advanced reactor technologies, spanning large nuclear power plants as well as small modular reactors.

Graduates of the program will

Find industry-relevant careers in the UAE's peaceful nuclear industry, government departments, the defense industry, the emerging space sector, metallurgical industries in aluminum and steel, and oil-and-gas and petrochemical sectors.

Labs: Engineering Design, Computing, Chemistry, and Physics in addition to laboratories related to the major courses.



جامعة خليفة
Khalifa University

ku.ac.ae



WHY KHALIFA UNIVERSITY?



GLOBAL RECOGNITION

Khalifa University stands out as the leading institution in the UAE, with 90 of its faculty members acknowledged among the world's top 2% most-cited scientists in Stanford University's prestigious 2023 listing.



CONSISTENTLY HIGH-RANKED

Ranked top in the UAE, 2nd in the Arab world, and ranked 27th in Asia in Sustainability; and among top 250 in the world



GLOBALLY-ACCREDITED ACADEMIC PROGRAMS

Khalifa University is fully licensed and all its programs are accredited by the Commission for Academic Accreditation (CAA) of the UAE Ministry of Education.



UNIQUE AND DIVERSE RESEARCH

Including energy, water and environment, healthcare, aerospace, cybersecurity, Intelligent Systems, advanced materials, and fundamental science..



WORLD'S SAFEST CITY

Abu Dhabi, the largest emirate in the UAE, remains the world's safest city for the 8th consecutive year in 2024. Experience safety and a cosmopolitan lifestyle that enhances your learning experience, reinforcing its status as a safe and secure place to live, work, study, and invest.



EXPERT GUIDANCE

We are committed to empowering students for success, fostering collaboration in a diverse community led by world-class faculty. Experience personalized guidance and a conducive learning environment with an impressive 11:6 student-to-faculty ratio, ensuring your path to success is well-supported and rewarding.



DYNAMIC CAREER OPPORTUNITIES

Attractive graduate employment opportunities across a wide spectrum of industries with the opportunity to present research projects at major international conferences.