

MSc in

ENGINEERING SYSTEMS AND MANAGEMENT

About the program

This interdisciplinary program brings together experts in engineering, design, economics, management, and policy to teach and conduct research on large-scale complex systems. It aims to contribute to the process of discovery and knowledge creation through the conduct of original research. It aims to develop corporate and government leaders capable of effectively addressing global energy and sustainability challenges involving large-scale systems.

Graduates excel in multi-disciplinary settings, devising innovative solutions and advancing as recognized leaders. The program instills a holistic understanding of the interactions between engineering solutions and their broader implications, emphasizing long-term sustainability on regional and global scales. Our graduates value technical scholarship, societal service, leadership, and lifelong learning, shaping their careers to meet community needs.

Concentrations: 'Technology Management, Innovation, and Entrepreneurship (TMIE)' and 'Complex Systems Acquisition and Management (CSAM).'

Tracks: 'Healthcare Systems Engineering,' 'Manufacturing Systems,' and 'Supply Chain, Logistics, and Transportation.'

(Students have the option to structure their elective courses and master's thesis around one of the concentrations or specialization tracks for a tailored academic experience.)

Graduates of the program will

Be equipped with expertise in systems thinking, optimization, business analytics and management science principles.

Find leadership roles in both the private and public sectors. Guide research and implement advanced technologies, as well as optimize the operations and design of complex systems.

Pursue diverse opportunities as engineering manager, senior business analyst, senior project manager and director of supply chain management.

Labs

Human Factors, Industrial Visualization, Mini-Factory and Supply Chain and Operations Research,.

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.