

**BSc in**

ENGINEERING SYSTEMS AND MANAGEMENT

About the program

The Engineering Systems and Management is a broad program that combines management principles with macro-engineering methodologies. ESMA graduates use knowledge from different areas, including mathematics, physics, business, and social sciences, combined with engineering analysis, to design and improve different systems and processes. The improvements are typically achieved by smart integration of equipment, people, and information taking into account different constraints.

Graduates of the program will

The program offers multiple courses related to Innovation Management, Supply Chain and Logistics, Manufacturing, Energy Economics, Healthcare Management, etc.

During the study the students develop:

- an ability to formulate and solve complex engineering problems using different principles of engineering and science.
- an ability to apply engineering design principles considering public health, safety, welfare, social, environmental, and economic factors.

- an ability to function effectively in teams with different skills and backgrounds and communicate effectively with a range of audiences.

Process improvement is a very important topic for any business or non-commercial organization. ESMA graduates, often called "Industrial Engineers", "Operations Engineers", or "Operations Managers", are among the highest-paid professionals in many countries. Job opportunities are ample due to the broad spectrum of skills of our graduates.

The graduates can find work in different sectors including the service sector, supply chain and logistics, healthcare systems, military, security and intelligence, energy, high-tech manufacturing, transportation, oil and petrochemical industries, government, etc. Typical career specializations include systems engineer, management engineer, health system engineer, planning and operations manager, financial analyst, quality and maintenance engineer, and policy analyst. The program graduates currently work at AD Ports, Etihad Airways, Cleveland Clinic, Miral, ADNOC, Aramex, Boruoge, ADDC, E&Y, Mubadala, and many others.

Labs & Facilities

The students will have access to different laboratories supporting their study. These include Human Factors Laboratory, Visualization Laboratory, Supply Chain Laboratory, and Production Laboratory



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Khalifa University

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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.