



MSc in APPLIED MATHEMATICS & PhD in MATHEMATICS

About the program

The programs immerse students in rigorous degree programs that will move them to the frontiers of mathematical challenges. These build on internationally leading research activities in science, engineering, and medicine. Skills in contemporary Mathematics will expose students to research.. The degree is awarded to students who complete an independent investigation of a novel specialist topic in order to present a dissertation addressing a real-world problem.

Research areas include data science, machine learning, scientific computing, operation research, mathematical finance, biomathematics, mathematical physics, nonlinear dynamics, statistics, analysis, industrial mathematics, and algebra.

Graduates of the program will

Will embark on successful careers in Intelligent Systems: Application of mathematical and statistical techniques to AI and machine learning.

Finance and Actuarial Sciences: Utilization of quantitative skills for financial modeling, risk analysis, and actuarial work.

Software Development: Integration of mathematical algorithms and data science methodologies in software development. Healthcare: Analysis of medical data, development of predictive models, and contributions to healthcare analytics.

Government Policy: Informed decision-making through quantitative analysis and modeling for public policy.

Education: Teaching and research roles in academia, fostering the next generation of mathematicians, statisticians, and data scientists.



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.