

BSc in

# ELECTRICAL ENGINEERING

## About the program

The program provides students with the knowledge, techniques and skills that will be needed by the next generation of highly qualified engineers. It offers a wide spectrum of electrical and electronics, power, control, instrumentation programming and networking courses. It exposes the students to cutting edge hardware and software technologies by continuously reviewing the course contents and providing various elective courses.

The program is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET), and the UAE Ministry of Higher Education and Scientific Research.

## Tracks

Electronics, power systems and control and instrumentation.

Semiconductor Devices; Microwave Circuits; VLSI; Analog Circuits. Power Systems track: Power Systems, High Voltage, Power Electronics, Power Distribution, Power System Stability, Power System Protection. Control and Instrumentation track: Digital Signal Processing, Instrumentation and Measurements, Industrial Automation, Modern and Digital Control.

## Graduates of the program will

Find opportunities with ADNOC and other energy companies (e.g., Schlumberger and Baker-Hughes), Etisalat by e&, and other telecom companies (e.g., Ericson, GE, and Siemens), utilities companies (ADWEA, DEWA), GE, Mubadala Investment Company, Health Engineering, Avionics (Etihad and Emirates), Defense, and transportation companies.

Find opportunities in industries such as semiconductors, electronics, telecommunications, satellites, media, power utilities, petroleum, gas or nuclear industries and the police and the army. They design, test and develop devices, circuits, and systems. Career Specializations in this field include Design Engineers, Automation and Control System Engineers, Test and Maintenance Engineers.

Labs: Analog Electronics, Electric Circuits, Electric Machines, Feedback Control, High Voltage, Automation/Instrumentation, Microcontrollers, Power Systems, Renewable Energy.



# 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.