

# Electrical Engineering

**Because tomorrow matters**



Are you interested in the workings of electrical-powered innovations such as computer systems, electronics, telecommunications and the Internet of Things? Electrical engineers understand how to harness electricity to power our modern-day world. AUS offers a **Bachelor of Science in Electrical Engineering** that will help set you up for a bright future as an electrical engineer. Students benefit from our continuously updated curriculum covering emerging aspects of electrical engineering such as Artificial Intelligence, data science, electric vehicles, robotics, satellite systems, renewable energy and more.

# Why Electrical Engineering at AUS?

From outstanding faculty to world-class facilities, here is a snapshot of why students chose to study electrical engineering with us.

**Renowned faculty.** Our faculty come from some of the world's best electrical engineering schools including University of Calgary, Colorado State University, Carleton University, University of Kent, University of Minnesota, University of Arizona, University of Leeds, Ohio State University, University of Washington, University of Mississippi, University of Manitoba, Georgia Institute of Technology, University of Illinois, University of Waterloo and University of South Australia.

**State-of-the-art facilities.** Our students sharpen their new-found skills and knowledge in our diverse range of labs, including:

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Advanced Radio Technology Lab

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Biomedical Electronics Lab

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Communications Lab

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Control Systems Lab/Drones Manufacturing Lab

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Electric Circuits Lab

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Electric Machines and Power Electronics Lab

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Electric Vehicles Lab

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Electronics Lab

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EPIC Center

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High Voltage Lab

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Industrial Control Lab

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Measurement and Instrumentation Lab

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Microwave Imaging Lab

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Power Systems Lab

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Renewable Energy Lab

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RF Microelectronics Lab

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Satellites Teaching and Research Lab

**A top choice among employers.** Many opportunities await our students upon graduation. Our graduates are employed by organizations including:

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Mohammed Bin Rashid Space Centre

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Yahsat

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Thuraya Telecommunications Company

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Emirates Airlines

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Dubai Police

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Abu Dhabi Police

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Dubai Civil Aviation Authority

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Dubai International Airport

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Emirates Nuclear Energy Corporation

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Ministry of Energy

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Road and Transportation Authority

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Dubai Electricity and Water Authority (DEWA)

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Sharjah Electricity and Water Authority (SEWA)

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IBM, USA

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Honeywell International Inc., USA

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Mackenzie, USA

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Huawei, USA

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Tesla, USA

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Samsung Electronics America, USA

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Ericsson, Australia

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Ericsson, Sweden

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Mercedes Benz AG, Germany

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Toyota, Canada

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Chevron, Australia

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Thales, Australia

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SNC-Lavalin, Canada

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Signify, Netherlands

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Etisalat

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DU

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Schlumberger

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General Electric

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Schneider Electric

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Siemens

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Johnson Controls

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Signify

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Amazon

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Emirates Global Aluminum

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Petrofac

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Dragon Oil LLC

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Southern Energy Corp

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Nawah Energy Company

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Taq

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CAFU

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Baker Hughes

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National Engineering Bureau (NEB)

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EP&T Global

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PricewaterhouseCoopers (PwC)

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Jacobs Engineering Group Inc.

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Exponent Technology Services

**Accredited programs.** Our degree programs are accredited in the UAE and USA.

- AUS is licensed and its programs are accredited by the Commission for Academic Accreditation of the UAE Ministry of Education's Higher Education Affairs Division.
- AUS is accredited in the USA by the Middle States Commission on Higher Education.
- The Bachelor of Science in Electrical Engineering is accredited by the Engineering Accreditation Commission of ABET.

**Preparation for top graduate programs.** Our alumni have also gone onto pursue master's and doctoral degrees at universities including University of Illinois at Urbana-Champaign, Iowa State University, Georgia Institute of Technology, University of California-Berkeley, University of California-Los Angeles, Texas A&M, University of Wisconsin-Milwaukee, Syracuse University, University of Chicago, Queen's University, Middlesex University, Kingston University London, Technical University of Munich, University of Western Australia, University of Melbourne and many others.

**Broad curriculum.** Our students can choose from a wide and diverse selection of electives, including:

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Antennas and Wave Propagation

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Autonomous robotic Systems

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Control Systems II

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Deep Networks in Machine Learning

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Digital Control Systems

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Electric Drives

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Electric Power Distribution Systems

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Introduction to Radar Systems

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Medical Instrumentation

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Microwave Engineering

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Multimedia Communications and Networking

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Pattern Recognition

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Power Conversion in Renewable Energy Systems

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Power Electronics

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Power System Protection

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Radio Transceivers Design and Analysis

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Satellite Communications

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Utilization of Electrical Energy

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Wireless Communications

**Variety of scholarships and grants.** Eligible students have access to a wide range of scholarships and other financial support, with approximately two-thirds of all AUS students benefitting.

**Opportunities beyond the classroom.** Our students enjoy an active and diverse extracurricular experience, with more than 80 interest-oriented clubs and 26 sports teams. Electrical engineering students typically partake in groups such as IEEE Special Interest Group on Humanitarian Technology, IEEE Student Branch, IEEE Solid State Circuits Society and IEEE Eta Kappa Nu (Electrical Engineering Honor Society). Popular activities for electrical engineering students include IEEE Student Day, Drone Design Academy and Drone Piloting Academy. Electrical engineering students also enjoy field trips abroad and exchanges with highly respected universities in the United States.

**International recognition.** AUS has an impressive list of rankings to its name:

- Among the **top 10 Arab universities** every year for the past seven consecutive years (QS Arab Region University Rankings 2022)
- Among the **top 50 universities** in the world under the age of 50 years according (QS World University Rankings 2021)
- Among the **top two (tied) in the UAE and top 300 universities globally** for electrical and electronic engineering (QS World University Subject Rankings 2022)
- Graduates across all engineering majors are the **top choice for employers in the UAE** (QS World University Subject Rankings 2022)
- Among the **top four universities** in the UAE and among the **top 600 globally** for engineering studies (THE World University Subject Rankings 2022)
- Among the **top three universities** globally with the highest percentage of international students (THE World University Rankings 2021)

#### Contact

Department Head, Dr. Oualid Hammi, Tel +971 6 515 2971, ohammi@aus.edu  
ELE Academic Advisor, Dr. Ming Teng, Tel +971 6 515 2932, mteng@aus.edu  
Administrative Assistant, Shena Rosa, Tel +971 6 515 2474, srosa@aus.edu

**Learn more** [www.aus.edu/cen/department-of-electrical-engineering](http://www.aus.edu/cen/department-of-electrical-engineering)

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