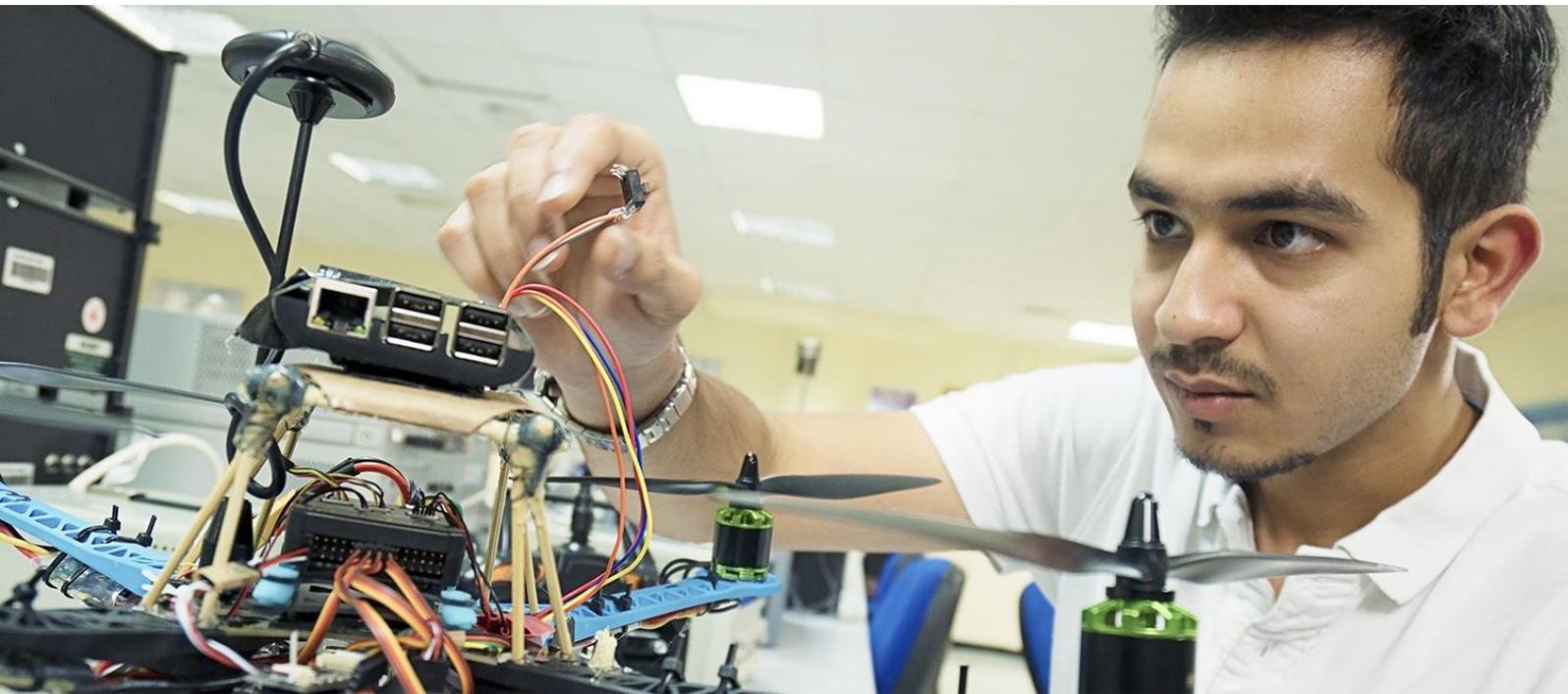


# Intelligent Systems and Mechatronics Engineering

Because tomorrow matters



Are you interested in the workings of intelligent systems and mechatronics-powered innovations such as autonomous robotic systems, artificial intelligence, electric vehicles, intelligent manufacturing and drones? Embark on a multidisciplinary academic journey with our cutting-edge **Bachelor of Science in Intelligent Systems and Mechatronics Engineering** at AUS!

Intelligent systems and mechatronics (ISM) engineers understand how to harness intelligence and mechatronics to shape tomorrow's technological landscape. Explore the fascinating intersection of artificial intelligence, robotics and mechatronics. Our dynamic curriculum constantly evolves to incorporate the latest advancements, ensuring you are well-prepared for the evolving landscape of modern technology.

# Why Intelligent Systems and Mechatronics Engineering at AUS?

From outstanding faculty to world-class facilities, here is a snapshot of why students choose the Bachelor Science in Intelligent Systems and Mechatronics Engineering at the AUS College of Engineering.

**Renowned faculty.** Our faculty come from some of the world's best engineering schools including University of California, University of Calgary, Colorado State University, Virginia Tech, 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 Toronto, Texas A&M University, 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:

Drone Design and Manufacturing Academy
Mechatronics and Robotics Lab
Embedded Systems And Industrial Systems Lab
Power Electronics Lab
Renewable Energy Lab
Electronics and Electric Circuits Lab
Biomedical Systems Lab
Measurement and Instrumentation Lab
Modeling and Simulation Lab

3D Printing Lab
Electric Vehicles Lab
Communications and DSP Lab
Advanced Radio Technologies Lab
RF Microelectronics Lab
Microwave Imaging Lab
Multilayer PCB Manufacturing Lab
Aerospace Laboratory
Dynamics and Control Systems Lab

**A top choice among employers.** Many opportunities await our College of Engineering (CEN) students upon graduation. Our CEN graduates are employed by organizations including:

Mohammed Bin Rashid Space Centre
Toyota, Canada
General Electric
Johnson Controls
Schneider Electric
Baker Hughes
Siemens
Abu Dhabi Police
Dubai Civil Aviation Authority
PricewaterhouseCoopers (PwC)
Emirates Nuclear Energy Corporation
Ministry of Energy
Emirates Airlines
Jacobs Engineering Group Inc.
ABB
Ibtikar Edu Tech
Festo AE

MacKenzie, USA
Huawei, USA
Tesla, USA
Samsung Electronics America, USA
Ericsson, Australia and Sweden
IBM, USA
Mercedes Benz AG, Germany
Schlumberger
Baker Hughes
Honeywell International Inc., USA
Road and Transportation Authority (RTA)
Petrofac
Yahsat
Emirates Global Aluminum
ADGE
Tatweer Middle East
GE

**Accredited programs.** Our degree programs are recognized both 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.

**Preparation for top graduate programs.** Graduates of our College of Engineering 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, 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:

Autonomous Robotic Systems	Deep Networks in Machine Learning
Autonomous Vehicles	Pattern Recognition
Automotive Electronics	Statistical Signal Processing
Brain Machine Interface	Multimedia Communications and Networking
Medical Instrumentation	Intelligent Manufacturing
Introduction to MEMS	Kinematics and Dynamics of Machinery
Fluid Power Control	Mechanical Vibration
Digital Control Systems	Special topic courses in Intelligent Systems and Mechatronics Engineering

**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 100 student clubs and over 30 sports teams. BSISME students typically join organizations such as the IEEE Student Branch, the American Society of Mechanical Engineers, the IEEE Robotics and Automation Society Student Branch Chapter, IEEE Eta Kappa Nu Honor Society, the Pi Tau Sigma Society, the Association of Women Engineers, and the Engineering Product Design and Innovation Society. Other popular activities include IEEE Student Day, the Drone Design Academy, the Drone Piloting Academy and the Sumo Robot competition. Our 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 nine consecutive years (QS Arab Region University Rankings 2024)
- Among the **top 50 universities** in the world under the age of 50 years (QS World University Rankings 2021)
- Among the **top two (tied) in the UAE and top 300 universities globally** for mechanical, aeronautical and manufacturing engineering (QS World University Subject Rankings 2023)
- Among the **top three (tied) in the UAE and top 300 universities globally** for electrical and electronic engineering (QS World University Subject Rankings 2023)
- Graduates across all engineering majors are the **top choice for employers in the UAE** (QS World University Subject Rankings 2023)
- Among the **top five universities** in the UAE and among the **top 600 globally** for engineering studies (THE World University Subject Rankings 2024)
- Among the **top five universities** globally with the highest percentage of international students (THE World University Rankings 2023)

### Contact

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