

Bachelor of Science in Electro - Mechanical Engineering



POISED TO DELIVER INNOVATIVE SOLUTIONS FOR SOCIETY

WHY STUDY BACHELOR DEGREE IN ELECTRO-MECHANICAL ENGINEERING

The BSc in Electro-Mechanical Engineering is a future-focused degree that equips students with interdisciplinary skills in mechanical, electrical, and electronic engineering. This programme is ideal for those passionate about robotics, automation, renewable energy, aviation, shipping, and smart manufacturing. At BUiD, students gain industry-relevant knowledge aligned with the needs of the UAE and GCC markets. The programme prepares graduates for high-demand careers in automotive, aerospace, energy, and advanced technology sectors, ensuring they stay ahead in a rapidly evolving world. With hands-on learning and exposure to cutting-edge innovations, this degree opens doors to global career opportunities.

Entry Requirements

Secondary level education (12 years) or equivalent. 80% is required in 3 Subjects: Math, Physics, and (Chemistry or Biology)

Curricula taught in English are exempted from English Language requirement.

For Ministry curriculum a grade of 80% for English language in high school or Academic IELTS with an overall score of 5.0 or equivalent is required.

(please check our website for more details www.buid.ac.ae)

PROGRAMME DESCRIPTION

The programme provides students with the knowledge of Mathematics, Physics, Statistics, and Engineering required to model and solve real life Electro-Mechanical engineering problems. Students gain knowledge of EM components and systems and build understanding of the implications of materials, people, information, and energy requirements. This involves the learning of concepts, engineering practices, scientific approaches to problems, and the conducting of analyses. Students gain hands-on experience in the use of modern tools, such as computer-aided modelling and simulation, to analyse, improve and optimise engineering systems.

CAREER PROSPECTS

Electro-Mechanical Engineering graduates bridge electrical and mechanical systems, opening careers in robotics, automation, smart manufacturing (Industry 4.0), renewable energy, and IoT. Opportunities span autonomous vehicles, AI-driven predictive maintenance, mechatronics, and embedded systems design. With skills in programming, AI, and problem-solving, graduates drive innovation in cyber-physical systems and energy-efficient tech. Industries like automotive, aerospace, and consumer electronics offer dynamic career paths in a rapidly evolving world.

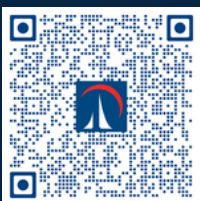
ABOUT BUiD

The British University in Dubai (BUiD) was established by law number 5 in 2003, by His Highness the late Sheikh Maktoum bin Rashid bin Saeed Al Maktoum, Ruler of Dubai, as a not-for-profit entity. The University grew out of collaborations between British and Dubai academic, government and commercial organisations to make a unique contribution to the UAE and the Gulf region.

The academic support that BUiD enjoys from its alliance with Russell Group universities in the UK has contributed to its success. These universities include the University of Edinburgh, the University of Glasgow, and the University of Manchester - all in the world's top 100.

Scholarships are available - Please check our website www.buid.ac.ae

For Information



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