



Curtin University

Dubai

Bachelor of Engineering (Honours)

Mechanical Engineering

Mechanical engineers analyse and develop technological systems that involve motion. They help society harness the energy and forces that exist in nature.

The conception, design, manufacturing, maintenance, and management of systems, ranging from micromechanical devices through to massive power-generating turbines are all within the scope of mechanical engineering.

Modern air and ground transport systems and thermal power generation are a few key examples of mechanical engineering accomplishments. Mechanical engineering is one of the classic engineering disciplines; understood and recognised all around the world. It is also one of the broadest engineering disciplines, meaning that as a graduate of this course, you will have developed versatile skills that will suit many areas of employment.

This course is fundamentally oriented to provide learning and skills development opportunities with hands-on experience. You will learn how to apply your knowledge and skills to invent or develop solutions to a wide range of exciting and challenging problems in industry. In your final year you will undertake an individual design/research project.

This hands-on course is designed to prepare you for employment in one of the many specialties within mechanical engineering. As part of your course, you are required to participate in 480 hours of internships and professional development to ensure that you graduate job ready.

ABOUT CURTIN UNIVERSITY

Curtin University is an innovative global university with campuses in Australia, Dubai, Singapore, Malaysia, Colombo, and Mauritius. We are known for our high-impact research, strong industry partnerships, and commitment to preparing students for the jobs of the future.

Curtin is ranked in the top one per cent of universities worldwide in the Academic Ranking of World Universities (ARWU) 2025. We are also ranked 183rd in the world for universities by the QS World University Rankings QSWURJ 2026.

QS World University Rankings by subject 2024:

- Top 250 – Engineering - Mechanical



A TRULY GLOBAL EXPERIENCE

You have the opportunity to pursue any one teaching period at our campus in Perth with no increase in tuition. For further information, please contact Student Service Centre: studentservicecentre@curtindubai.ac.ae

Make tomorrow better.

www.curtindubai.ac.ae

COURSE ESSENTIALS

BACHELOR OF ENGINEERING (HONOURS) IN MECHANICAL ENGINEERING	
Course prerequisites	Mathematics with Calculus AND Physics OR Chemistry is essential
Indicative cut-off scores	GCE A-Levels: 8 points (minimum 2 subjects) IB: 30 points India: CBSE/ICSE - 70% HSC - 71%
English language requirements	12th CBSE - 60% IGCSE English Language and Literature - C IBDP - 4 IELTS 6.0, with no band less than 6.0 or equivalent
Course duration	4 years full-time
Intake	February and September
Annual fees*	AED 65,100

*All fees indicated are inclusive of 5% UAE VAT.

COURSE STRUCTURE

Calculus for Engineers	Linear Systems and Vibrations
Engineering Mechanics	Materials Engineering
Electrical Systems	Applied Fluid Mechanics
Integrating Indigenous Science and STEM	Exposure to Professional Engineering Practice
Linear Algebra and Statistics for Engineers	Machine Design
Engineering Foundations: Principles, Design and Communication	Design For Manufacturing
Fundamentals of Programming	Automatic Control Systems
Resources, Processes and Materials Engineering	Mechanical Engineering Research Project 1
Fluid Mechanics	Professional Engineering Management and Practice
Fundamentals of Strength of Materials	Engineering Design Methodology
Machine Dynamics	Electromechanical Energy Systems
Computer Aided Drawing and Engineering Modelling	Mechanical Engineering Research Project 2
Ethics and Sustainability in Engineering	Systems Engineering Design
Fundamentals of Thermodynamics	Mechanical Design for Materials Handling
Fundamentals of Mechanical Design	Advanced Strength of Materials
Manufacturing Processes	Fundamentals of Heat Transfer

* These are example progressions. Order of units depends on intake period.

CAREER OPPORTUNITIES

This course can help you become a/an

- Mechatronic (Robotics) Engineer
- Mechanical Engineer
- Aviation / Aerospace Engineer
- Automotive Engineer



Curtin's Bachelor of Engineering (Honours) in Mechanical Engineering is accredited by Engineers Australia (EA) and recognised internationally.

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