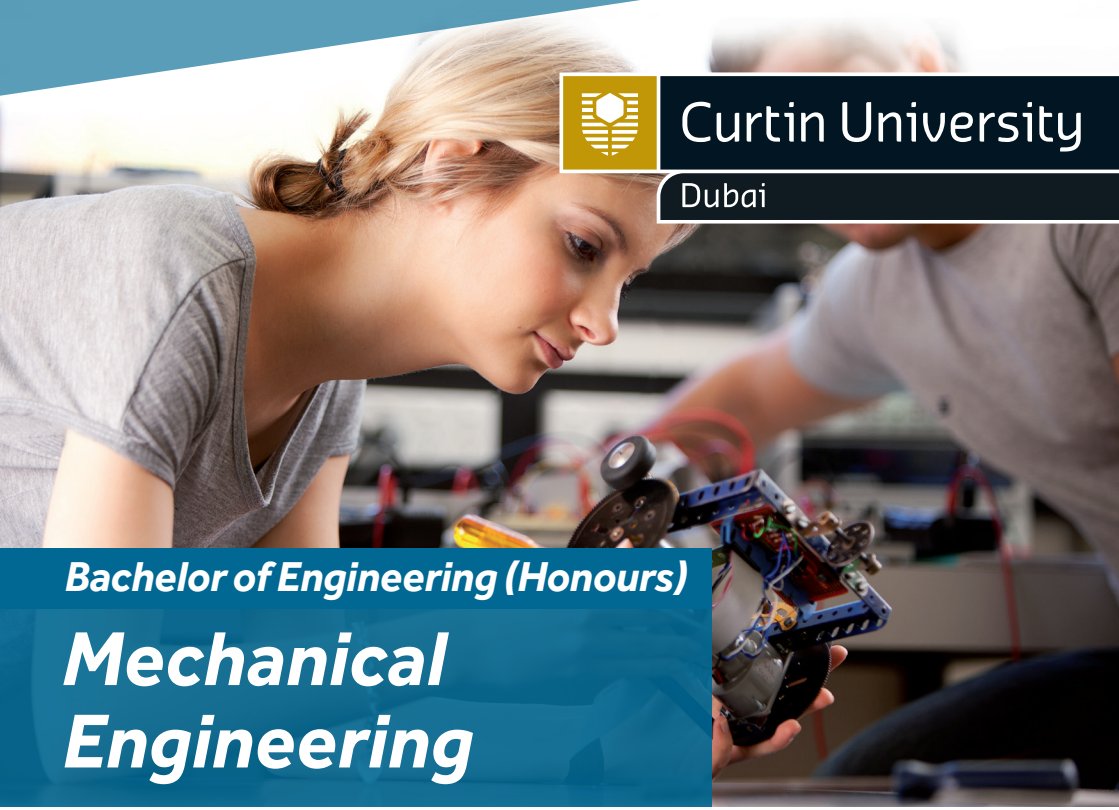

Curtin University

Dubai

Bachelor of Engineering (Honours)

Mechanical Engineering

Mechanical engineers analyse and develop technological systems that involve motion. They help society to 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) 2023. We are also ranked 174th in the world for universities by the QS World University Rankings QSWUR) 2025.

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. You can also pursue the 2-week On Country Program in Perth, equivalent to a 25-credit point unit.

COURSE ESSENTIALS

BACHELOR OF ENGINEERING (HONOURS) IN MECHANICAL ENGINEERING	
Course prerequisites	Mathematics (subject to qualifications) and either chemistry, physics or engineering studies. Further mathematics is desirable.
Indicative cut-off scores	GCE A-Levels: 8 points (minimum 2 subjects) | IB: 28 points | India: CBSE/ICSE - 70% HSC - 71%
English language requirements	12th CBSE - 60% | IGCSE English Language and Literature - C | IB - 4 | IELTS 6.0, with no band less than 6.0 or equivalent
Course duration	4 years full-time
Intake	February and September
Total tuition*	AED 243,600 or USD 66,380

All fees indicated are inclusive of 5% UAE VAT.

COURSE STRUCTURE

Engineering Mechanics	Fundamentals of Mechanical Design
Engineering: Connecting Past, Present, and Future	Fundamentals of Thermodynamics
Electrical Systems	Electrical Plant
Engineering Foundations: Principles, Design, and Communication	Fundamentals of Mechanical Vibration
Resources, Processes, and Materials Engineering	Competitive Manufacturing Processes
Linear Algebra and Statistics for Engineers	Advanced Strength of Materials
Calculus for Engineers	Applied Thermodynamics and Heat Transfer
Fundamentals of Programming	Linear Systems and Control
Engineering Graphics	Engineering Management
Engineering Mathematics	Applied Fluid Mechanics
Fluid Mechanics	Machine Design
Machine Dynamics	Mechanical Engineering Research Project 1
Fundamentals of Strength of Materials	Design For Manufacturing
Engineering Sustainable Development	Law for Engineers
Manufacturing Processes	Mechanical Engineering Research Project 2
Professional Engineering Practice	Engineering Design Methodology
Materials Engineering	Sustainable Energy Systems and Technologies
Finite Element Analysis	

** 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

CONTACT US:

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