



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 electrical and electronic 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 Perth, Dubai, Singapore, Malaysia 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 2018. We are also ranked 20th in the world for universities under 50 years of age in the QS World University Rankings 2019.

QS World University Rankings by subject 2019:

- 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.

Make tomorrow better.

www.curtindubai.ac.ae

COURSE ESSENTIALS

BACHELOR OF ENGINEERING (HONOURS) - MECHANICAL ENGINEERING

Course prerequisites	Mathematics (including calculus) and either chemistry, physics or engineering studies. Further mathematics is desirable.
Indicative cut-off scores	GCE A-Levels: 8 points (best of 3 subjects) IB: 28 points India: CBSE/ICSE - 70% HSC - 71%
English language requirements	IELTS overall band score of 6.0 with a minimum of 6.0 in each band
Duration	4 years full-time
Intake	February and September
Total tuition*	AED 243,600 or USD 66,740

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

COURSE STRUCTURE

YEAR 1 TEACHING PERIOD 1	YEAR 1 TEACHING PERIOD 2
Linear Algebra for Engineers	Calculus for Engineers
Engineering Foundations - Design & Processes	Engineering Mechanics
Engineering Materials	Electrical Systems
Engineering Programming	Engineering Foundations - P and C
Engineering Connections	
YEAR 2 TEACHING PERIOD 1	YEAR 2 TEACHING PERIOD 2
Machine Dynamics	Fundamentals of Mechanical Design
Fluid Mechanics	Fundamentals of Thermodynamics
Fundamentals of Strength of Materials	Manufacturing Processes
Engineering Graphics	Electrical Plant
Engineering Mathematics	Engineering Sustainable Development
YEAR 3 TEACHING PERIOD 1	YEAR 3 TEACHING PERIOD 2
Advanced Strength of Materials	Applied Fluid Mechanics
Applied Thermodynamics and Heat Transfer	Engineering Management
Competitive Manufacturing Processes	Linear Systems and Control
Fundamentals of Mechanical Vibration	Machine Design
YEAR 4 TEACHING PERIOD 1	YEAR 4 TEACHING PERIOD 2
Mechanical Engineering Research Project 1	Law for Engineers
Materials Engineering	Mechanical Engineering Research Project 2
Sustainable Energy Systems and Technologies	Professional Engineering Practice
Heat Transfer	Design for Manufacturing
	Engineering Noise Control

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

Career opportunities:

This course can help you become a/an

- Mechatronic engineer
- Mechanical engineer
- Aviation engineer
- Automotive engineer

CONTACT US:

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