



Curtin University

Dubai

BACHELOR OF ENGINEERING (HONOURS)

ELECTRICAL AND ELECTRONIC

Modern civilisation is dependent upon electrical energy and electronics and the future of civilisation is dependent on the development of sustainable sources of electricity and advances in electronics.

As the population of the world grows from 7.6 billion to over 10 billion in 2050, the global demand for electricity will likely more than double. Electrical engineers will be needed to develop and maintain sustainable sources of electricity and the power distribution systems that will store and transmit that electricity to where it is needed worldwide. Since the 1950s the pace of growth in electronics has been accelerating. The demand for efficient and more powerful electronic devices has continued to grow and is forecasted to continue growing for the foreseeable future. Electronic engineers will be in high demand to continue to design and build computers, smartphones, and other personal electronics for consumers as well as control systems and components for industrial systems.

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 200 – Engineering - Electrical and Electronic



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) - ELECTRICAL AND ELECTRONIC

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
Engineering Foundations – Principles and Communication	Engineering Programming (12.5)
Calculus for Engineers	Engineering Connections (12.5)
Engineering Materials	Engineering Mechanics
Electrical Systems	Engineering Foundations – Design and Process
	Linear Algebra and Statistics for Engineers
YEAR 2 TEACHING PERIOD 1	YEAR 2 TEACHING PERIOD 2
Electrical Circuits	Signals and Systems
Unix and C Programming	Electromagnetic and Electromechanical Energy Conservation
Foundations of Digital Design	Electronic Fundamentals
Mathematics and Probability Theory	Microcomputers
YEAR 3 TEACHING PERIOD 1	YEAR 3 TEACHING PERIOD 2
Fundamentals of Engineering Electromagnetics and Transmission Lines	Renewable Energy Principles
Dynamic Modelling and Control	Law for Engineers (12.5)
Data Communications and Networking	Engineering Sustainable Development (12.5)
Operating Systems	2 Elective Units
YEAR 4 TEACHING PERIOD 1	YEAR 4 TEACHING PERIOD 2
Instrumentation and Control	Engineering Management
Engineering Research Project 1	Engineering Research Project 2
2 Elective Units	2 Elective Units

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

Career opportunities:

This course can help you become a/an

- Electronic Engineer
- Electrical Engineer
- Computer Engineer

CONTACT US:

CURTIN UNIVERSITY DUBAI

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Published by Curtin University Dubai 2019.

CRICOS Provider Code 003013

