Why DCU?

Our students enjoy an exceptional teaching and learning environment and our research facilities are among the best in Ireland. DCU is home to leading research centres in areas such as educational assessment and evaluation, additive manufacturing, bullying prevention and human rights, cellular biotechnology, neurotherapeutics, cellular biotechnology, sensors, plasma technology, biomedical diagnostics, machine translation, cloud computing and data analytics. Other research areas in our Faculty include expertise in IOT, Optical Communications and IPA.

- DCU is committed to providing a highly supportive environment for our students along their journey of learning and personal development
- DCU pursues excellence in education and research as we seek to prepare the next generation of leaders, entrepreneurs and innovators for the global workplace
- DCU focuses on the broader student experience where you can combine advanced learning with a broad range of social, cultural and sporting activities

2018 saw the opening of our brand new DCU Student Centre. This purpose-built space offers exciting facilities for our students' cultural and global engagement and entrepreneurial activities, which, complemented by more than 120 DCU student clubs and societies, contributes to DCU's vibrant social environment.

DCU also boasts a superb sports complex, with a 25-metre swimming pool, state of the art libraries and the renowned performing arts centre, The Helix.

Find out more:

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DCU
Ollscoil Chathair Bhaile Átha Cliath
Dublin City University

MEng in Electronic and Computer Engineering

Full-time (PAC Code: DC883, September, 1 Year)
(PAC Code: DC891, February, 18 Months)

Part-time (PAC Code: DC884, September, 2 Years)
(PAC Code: DC892, February, 2 Years)

DÁMH NA HINNEALTÓIREACHTA AGUS NA RÍOMHAIREACHTA
FACULTY OF ENGINEERING AND COMPUTING

MEng in Electronic and Computer Engineering

Introduction

The MEng in Electronic and Computer Engineering is at the highest European masters degree level. It offers advanced-level courses in the theory, analysis, design, modelling and manufacture of electronic and computer systems.

The purpose of this flexible programme is to allow participants to customise a taught masters programme based on preferred focus area. This newly revised offering combines the expertise from previous programmes focused on Electronic Systems and Telecommunications Engineering to form an updated, industry-relevant and modern programme.

With our new pre-defined Majors, students have the option of specialising in one of four areas: Internet of Things (IOT), Nanotechnology, Image Processing and Analysis or Advanced Data Networks, and Semiconductor and Plasma Technology.

Why this Course?

Established: With more than 20 modules available, there is great scope to tailor the programme to specific needs and interests in the largest and longest-running programme of its type in the country.

Flexible: The course combines full-time/part-time, on-campus/remote and a choice of two starting times each year.

Modern: The course is continually kept up-to-date to reflect changing technological advances in industry and research.

Relevant: Acquire knowledge and skills that are in high demand in industry.

Rewarding: Our students work on a Masters project in some of the top research labs in the country.

Course Structure

This newly revised offering combines the expertise of Electronic Systems and Telecommunications Engineering in an updated, industry-relevant modern programme:

— To obtain a systematic understanding of the theory, concepts and methods at the forefront of knowledge pertaining to selected topics chosen from a wide set within Electronic and Computer Engineering.
— To form a critical awareness of present-day, state-of-the-art and current developments and research at the forefront of a range of specialised areas in Electronic and Computer Engineering together with a knowledge and understanding of engineering practice, methods and techniques.
— To develop the skills to design components, systems or processes to meet specific needs. To enhance knowledge and understanding of analysis, design processes and techniques and develop the ability to apply them in unfamiliar situations.
— To allow a more intensive exposure to modern, industry relevant technologies through optional Majors in the Internet of Things (IoT), Nanotechnology, Image Processing and Analysis or Advanced Data Networks.
— Our Master is worth 90 ECTS credits and for a full-time student registered in September the duration of the Master is 12 months. For further information, including possibility of scholarship, please check: **http://ece.eeng.dcu.ie/postgraduate/meng-electronic-and-computer-engineering/**

Careers

Opportunities will arise in Irish and International high-tech industry roles, including:

— Research and Development Engineer
— Design Engineer
— Production Engineer
— Sales Engineer
— Management Engineer
— Software Engineer

Graduates have been employed by companies including Google, Intel, Oracle, IBM and Boston Scientific. The skills learned, however, are fundamental and can also be applied to many other disciplines. In addition, the Masters Project will also greatly improve the graduate's employment potential.

Minimum Entry Requirements

The programme is delivered on a full-time or part-time basis. There are two intakes to the programme per academic year (February and September) and flexible study options are provided.

A Primary Honours degree, Level 8 with an award of H2.2 or higher in Electronic/Electrical/Computer Engineering, Applied Physics, Computer Sciences or other Engineering Disciplines.

Non-EU students are only recruited onto the Masters Programme (not onto the Qualifier programme which is only available to EU students). Entry will be considered on the basis of meeting or exceeding the recognised equivalent of the stated entry requirements and of meeting the DCU English language requirements.

For further details of the English competency test, see: **dcu.ie/registry/english.shtml**

Applications are accepted on the PAC website at: **pac.ie/dcu**

An alternative entry path is provided for some students who do not meet the Masters programme entry requirements. Graduate Diploma and Graduate Certificate exit awards are also available.

MEng in Electronic and Computer Engineering

PAC Code
DC883
DC891

Duration
Continuous

NFQ Level
9

Delivery Mode
Full Time

PAC Code
DC884
DC892

Duration
Continuous

NFQ Level
9

Delivery Mode
Part Time