



University College Dublin
Ireland's Global University

PROFESSIONAL DIPLOMA IN ELECTRONIC DESIGN (ONE YEAR PART TIME)

Ireland has a dynamic electronic design industry that employs over eight thousand people and generates export revenue of approximately €9 Billion per annum. The industry depends for its success on the continuing development of talent to the highest international standards. The Professional Diploma in Electronic Design is designed to help electronics graduates transition into design and/or to improve their professional skills.

Until recently, it has been impossible for engineers working in industry to gain access to the graduate-level electronic design modules offered by University College Dublin because attendance at the Belfield campus was compulsory; this made participation impossible for those outside Dublin and for those in full-time employment.

WHY STUDY AT UCD?



Tradition

Established 1854, with 160 years of teaching and research excellence



Global profile

UCD is ranked in the top 1% of higher education institutions worldwide



Global community

Over 8,500 international students from over 130 countries study at UCD



Global careers

Degrees with high employability; dedicated careers support; two-year stay-back visa (for non-EU students)



Safety

Modern parkland campus with 24-hour security, minutes from Dublin city centre

ONLINE MODULES

By making selected modules available online, this programme provides a unique opportunity to learn from world leaders in embedded systems, power electronics, mixed-signal, RF, and microwave circuit design, while in employment. Modules are also taught by leaders in the field who regularly publish in the top journals and conferences.

COURSE CONTENT AND STRUCTURE

20 credits
taught modules

The Professional Diploma in Electronic Design comprises 20 credits of Option Modules (four modules). These module are selected from eight modules which are offered across the Spring and Autumn Trimesters.

Modules Offered:

- Digital Communications
- Applications of Power Electronics
- Advanced Signal Processing
- Radio-Frequency Electronics
- Digital & Embedded Systems
- Power Electronics Technology
- Analogue Integrated Circuits
- Mixed-Signal Integrated Circuits

Modules are delivered in real-time to full-time students and made available online (in real time and via recordings) to off-site learners

For those who wish to take individual modules, but not the diploma, please contact the ADVANCE Centre - info@advancecentre.ie



CAREER OPPORTUNITIES

Many leading multinational companies in the electronics industry, including Analog Devices, Bosch, Cadence, Infineon, Intel, Microchip, ON Semiconductor, Qorvo, Synopsys, and Xilinx, have design centres in Ireland that specialise in some or all of digital design, power, mixed-signal and RF circuits.

Electronic design companies are constantly in search of highly-skilled design engineers, and invest heavily in the professional development of their staff.



LEARNING OUTCOMES

The learning outcomes are as follows: (1) familiarity with and knowledge of prototypical analogue, mixed-signal, radiofrequency and power electronic circuits; (2) ability to use electronic design automation (EDA) software to design circuits of medium complexity; (3) ability to analyse and design electronic circuits to solve specified problems; (4) ability to communicate effectively in the field of electronic design and (5) ability to learn independently.

APPLY NOW

This programme receives significant interest so please apply early online at www.ucd.ie/apply

ENTRY REQUIREMENTS

- Applicants should hold a NFQ Level 8 (or international equivalent) BE degree in Electrical Engineering or equivalent.
- Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element), or equivalent.

RELATED MASTERS PROGRAMMES OF INTEREST

- Professional Diploma in Power System Analysis
- Professional Diploma in Operations Excellence

FEES

Fee information is available www.ucd.ie/fees

CONTACT US

Katie O'Neill, Marketing Manager, E: katie.oneill@ucd.ie T: +353 1 716 1781 W: www.ucd.ie/eacollege

Prof. Peter Kennedy, Programme Director, E: peter.kennedy@ucd.ie T: +353 1 716 1903

Carol O'Connor, Manager, ADVANCE Centre for Professional Development, E: carol.oconnor@ucd.ie



PROGRAMME DIRECTOR

Prof. Peter Kennedy

Ireland has a long history in circuit design with deep experience in advanced signal processing, power electronics, RF and mixed-signal circuits. Due to the traditional nature of programme delivery in universities, on-campus attendance has normally been required. This programme gives design engineers who are in full-time employment a unique opportunity to take classes from some of the world's best experts in circuit design with minimal impact on their day jobs.

Programme offered as part of the

THE ADVANCE CENTRE
for Graduate Professional Education

www.advancecentre.ie