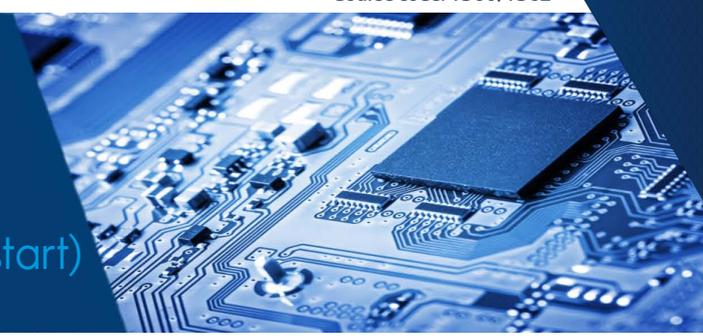




Professional Diploma in Electronic Design

One Year Part Time (September/January start)



Introduction

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.

Course Highlight

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

The Professional Diploma in Electronic Design comprises 20 credits of option Modules (four modules). These modules are selected from eight modules that are offered across the Spring and Autumn Trimesters. Students taking Mixed-Signal Integrated Circuits are strongly advised to take Analogue Integrated Circuits first. All lectures are in the morning of weekdays with labs in the afternoon. Remote lectures & labs are available for those who cannot attend in person*.

**Please note however, some attendance may be required as some modules may have in-person exams. For those who wish to take individual modules, but not the diploma, please contact the ADVANCE Centre - info@advancecentre.ie*

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

Why study at UCD?



Graduate education

12,800 graduate students; 17% graduate research students; structured PhDs



Global community

9,500 international students and a 300,000 alumni network across 165 countries



Graduate Employability

Ranked no.1 in Ireland in QS Graduate Employability ranking



Global careers

Dedicated careers support; 2-year stayback visa to work in Ireland





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.

Programme Director

Professor Peter Kennedy



Applicant Profile

Applicants should hold a NMQ 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.

Tuition Fees

Tuition fee information is available on www.ucd.ie/fees.

Related Masters Programmes of Interest

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

Programme offered as part of the

THE ADVANCE CENTRE
for Graduate Professional Education

www.advancecentre.ie

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.

CONTACT US

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APPLY NOW

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