Waterford Institute of Technology

INSTITIÚID TÉCNEOLAÍÓCHTA PHORT LÁIRGE

Accredited by Engineers Ireland for Chartered Status

Master of Engineering in Electronic Engineering
School of Engineering/Department of Engineering Technology

Accredited by Engineers Ireland for Chartered Status

Level 9

‘Engineer Your Career & Become a Chartered Electronic Engineer at Waterford IT’ Accredited by Engineers Ireland for Chartered Status


www.wit.ie/pg
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www.pac.ie
Master of Engineering in Electronic Engineering (Level 9)

Course Outline

Course Structure
Semester 1 (September – December)
- Analogue Integrated Circuit Design (Core)
- Semiconductor Process Engineering (Elective)
- Nanotechnology (Elective)
- Advanced Digital Signal Processing (Core)
- Embedded System Design (Core)
- Communications Networks (Elective)
- Mathematical Modelling (Core)
- Research Methods 1 (Core)

Semester 2 (January – April)
- Mixed Signal Integrated Circuit Design (Elective)
- Semiconductor Device Engineering (Core)
- Optoelectronics (Elective)
- HDL Digital Design (Core)
- Digital Communications (Core)
- Wireless Communications (Elective)
- Technology Management (Core)
- Research Methods 2 (Core)

Semester 3 (May – August)
- Research Project and Dissertation

Course Delivery
- Available in full-time (1 year) and part-time (2 years: 1 day per week) modes

Unique Features
- Accredited by Engineers Ireland for Chartered status
- Content highly aligned to industry requirements
- High rate of graduate employment in high-tech companies
- Major integrated R&D project

Industry Testimonial
Alan Maher, International Foundry Yield Manager with Analog Devices Corporation:
"Over the past decade, I have hired numerous graduates from the degree and masters programmes in electronics at Waterford Institute of Technology. Although, our recruitment processes are rigorous, without exception all of the WIT graduates we have hired have proved professional, technically competent and able to contribute from day one. Even in the current economic climate, our company continues to seek to employ the best possible engineers that we can recruit. Waterford IT produces this type of graduate."
Analog Devices Corporation is a multinational microelectronic device manufacturer with a turnover in excess of two billion US Dollars per annum, that employs over 9,000 people worldwide (with over 1,000 of these jobs based at their design and fabrication facility in Limerick, where the company recently completed a €50 Million investment in its research and development facilities).

Career Opportunities
Chartered Engineer, Research Scientist, Integrated Circuit Design Engineer, Semiconductor Design & Fabrication Engineer, Digital System Design Engineer, Telecommunications Engineer, Wireless Communications Engineer, Project Engineer, Engineering Manager.

Follow On Options
- Application for recognition as Chartered Engineer
- PhD

Personal Development
Students who complete this programme will be converse in professional communications, research methods, professional development and professional practice; allowing them to fully utilise the core technical skill base acquired to continue to further their professional and educational development.

Entry Details
- Second class honours degree in electronic engineering or cognate discipline (e.g. computer science, computer engineering, electrical engineering, telecommunications, physics with electronics, etc.). Candidates with relevant experiential learning can also apply for interview.
- IELTS 6.0/TOEFL or equivalent
- Interview

Fees
For information on fees please visit our website at www.wit.ie/pgfees

Applications
Please apply online at www.pac.ie

Contacts
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