



Waterford Institute *of* Technology

INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

POSTGRADUATE

Higher Diploma in Applied Computing

Department of Computing, Maths & Physics

LEVEL **8**



This programme is designed to help graduates from a non-computing background to gain experience and employment within the modern computing industry. The course will confer on the graduates a set of personal and professional attributes that will allow greater flexibility in the development of their own career options.

Course Outline

Specifically, the course aims to produce graduates who can:

- Reason and problem solve to a high level within the context of computing programming tools.
- Participate in the development of high-quality research projects reflecting key areas within the existing and future computing industry.
- Management of projects that require the handling of innovation and change in dynamic environments, often providing effective advice and leadership where required.

Career Opportunities

One of the biggest growth areas within the industry currently is computing and computer related technologies. The Information and Communications Technology (ICT) and Programming sector plays a very significant role in Ireland. This sector is comprised of over 1000 organisations ranging from multinational and international organisations, to national start-ups with employment in the country being always on the increase.

Globally, the recognition and current opportunities for software developers and designers are excellent. IT and all that the computer industry encompasses has had a huge impact on our everyday lives, and there is a constant need for the development of these new technologies and the applications for these technologies.

What subject areas will I study?

This programme will be delivered in two semesters.

Semester 1 (September - January)

Core Topics for semester 1:

- Systems Analysis and Design
- Computer Programming 1
- Web Design Fundamentals
- Project Management

Elective subjects for semester 1:

- Consolidation of Advanced Language Skills
- Database Systems
- Human Computer Interaction (HCI) and Cognitive Science

Semester 2 (February - May)

Core Topics for semester 2:

- Networks and Operating Systems
- Dynamic Web Development
- Computer Programming 2
- Project

Elective subjects for semester 2:

- Consolidation of Advanced Language Skills 2
- Practical Games Development
- Management Psychology
- Intercultural Communication

Entry Details

Applicants for entry to the Higher Diploma in Applied Computing should hold a Bachelors degree (or equivalent qualification) in a non-computing area.

While no specialist knowledge of computing is essential, it will be assumed that candidates are familiar with the general principles of computer usage. Also, students possessing the relevant technical qualifications from other disciplines and/or colleges will be eligible for the course. In addition, students with the appropriate technical skills and experience may also be eligible.

International students are required to meet with the WIT postgraduate TOEFL/IELTS English language requirement standard.

Fees

For information on fees please visit our web page at www.wit.ie/pg

Contacts

Admissions queries contact:

Graduate Admissions,
Registrar's Office,
Waterford Institute of Technology
Tel +353 (0) 51 302670

Academic queries contact:

Ms. Ciara Cawley
Waterford Institute of Technology
Email: cmcawley@wit.ie
Web: www.wit.ie/computing

www.wit.ie