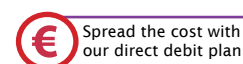


MASTER OF SCIENCE IN CLOUD COMPUTING



Part-time Schedule

Location	Application	Indicative Schedule	Duration	Start Date	Fees
IFSC Campus	Apply online at www.ncirl.ie	Two evenings per week, 18.00 - 22.00	2 years; 4 semesters with a final research project.	Sept 2018	€4,475 per annum €8,950 total fee (Fees revised annually)

Full-time Schedule

Indicative Schedule	Duration	EU Fee
Students need to be available 09.00-18.00 Mon – Fri. (Class days and times vary)	1 year; 2 semesters with a final research project	€6,500 total fee (Fees revised annually)

Course Description

This course will provide you with the latest knowledge and competencies required by the fastest growing global industry: the cloud. Cloud computing has become a multi-billion euro industry and this course offers specialisations in two key areas:

Infrastructure (IaaS - Infrastructure as a Service) and Development (SaaS - Software as a Service).

Studying at our state-of-the-art Cloud Competency Centre, you will gain experience with the latest design principles, models, and technologies in cloud computing. The course is delivered by faculty and industry practitioners with proven expertise in cloud computing.

Who is the course for?

This computing course will appeal to computer science or engineering graduates, ICT industry practitioners, system administrators, and those with an interest in gaining practical experience in cloud computing. To be admitted as a student, an applicant must have earned a degree or equivalent qualification at level 8 on the National Framework of Qualifications. Students in their final year of undergraduate study can be admitted on the condition that their degrees are awarded before they enrol at NCI.

As a graduate of this course you will be able to:

- . Create and deploy commercial multi-tier applications onto multiple (public/hybrid) cloud platforms
- . Plan and architect highly-scalable computing/data analytics solutions for business and scientific needs
- . Design pattern-based application code to run efficiently in a cloud environment
- . Evaluate security strategies associated with cloud computing and apply them

to ensure the technical sustainability of an organisation

- . Perform a migration from a traditional ICT environment to a cloud-based platform
- . Manage the process of running an IT department from a cloud environment.

Award and Progression

The Master of Science in Cloud Computing is awarded by QQI at level 9 on the National Framework of Qualifications. Students who successfully complete this course may progress to a major award at level 10 on the NFQ. Students may also elect to exit early with the Postgraduate Diploma in Science in Cloud Computing at level 9 on the NFQ.

Entry Requirements

An honours (level 8) primary degree in a cognate discipline with a 2.2 award or higher. The college operates a Recognition of Prior Experiential Learning (RPEL) scheme meaning applicants who do not meet the normal academic requirements may be considered based on relevant work and other experience. This may be assessed using a portfolio of learning, demonstration of work produced, and an interview.

Laptop Requirements

This programme has a BYOD (Bring Your Own Device) policy. Specifically, students are expected to successfully participate in lectures, laboratories and projects using a laptop computer with a substantial hardware configuration. A suitable configuration is 6GB of RAM (8GB or more are recommended); a 64-bit x86 processor (Intel i5 or superior); 250+ GB of hard disk; WiFi card; and a recent installed release of Windows operating system. It is the responsibility of the student to ensure their laptop is functioning correctly and that they have full administrator rights to the machine. NCI IT cannot provide support for personal devices.

Course Structure Year 1-2

Core Modules

- Cloud Architecture
- Cloud Security
- Research in Computing
- Utility Computing
- Business Strategies for Cloud Computing
- Research Methods

Infrastructure Specialisation

- Cloud Infrastructure Management
- Data Storage and Management
- Virtualisation

Development Specialisation

- Cloud Application Development
- Cloud Application Services
- Programming for Data Analytics

Capstone Research Project Categories

- Industry-based Research Project
- Research Project

Research Methods, Research Project and Industry-based Research Project modules are not required to complete the award of Postgraduate Diploma in Cloud Computing.

Note that all modules count towards the final award classification.

