

# MSC (COMPUTING SCIENCE)

## Overview

### NFQ Level 9, Major Award

The MSc is a full-time taught Master's Degree programme running for 12 months from the date of first registration for the programme. Students take taught modules in Semesters 1 and 2, followed by a research/development project from May to September.

The Masters Degree consists of 90 credits: taught modules to the value of 60 credits and a research/development project to the value of 30 credits. The taught modules comprise core modules to the value of 30 credits and elective modules to the value of 30 credits. Students are required to seek approval of the Head of Department for their choice of elective modules, following consultation with the programme coordinator. Not all elective modules will be offered each year.

Students must choose modules as follows: core modules to the value of 30 credits, plus elective modules to the value of 15 credits chosen from Group I and elective modules to the value of 15 credits chosen from Group II, plus the Research/Development Project (30 credits). Students will have completed all taught modules and related examining prior to commencing the Research/Development Project.

## Postgraduate Diploma in Computing Science

Students failing to achieve an aggregate of at least 60% across all modules but who achieve a pass in each of the taught modules at their first attempt graduate with a Postgraduate Diploma in Computing Science (<https://ucc-ie-public.courseleaf.com/programmes/pdcs/>). Students may also opt to exit the programme and graduate with a Postgraduate Diploma in Computing Science provided they have achieved a pass in each module.

## Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

## Programme Requirements

**Code**                      **Title**    **Credits**

Students take **90** credits as follows - taught modules (**60** credits) and a research dissertation (**30** credits):

### Taught Modules

Students take **60** credits as follows – all listed core modules (**30** credits) and elective modules to the value of **30** credits:

#### Core Modules

CS6403	Case Studies in Computing Entrepreneurship	5
CS6408	Database Technology	5
CS6409	Information Storage and Retrieval	5
CS6410	Project Development Skills	5
CS6422	Complex Systems Development	5
CS6423	Scalable Computing for Data Analytics	5

#### Elective Modules

Students take modules to the value of **15** credits from Group I and Group II respectively:

#### Group I

Students take modules to the value of <b>15</b> credits from Group I:	<b>15</b>
CS6312	Mobile Devices and Systems (5)

CS6314	Mobile Applications Design (5)
CS6322	Optimisation (5)
CS6325	Network Security (5)
CS6327	Internet of Things: Technology and Application (5)
CS6420	Topics in Artificial Intelligence (5)

#### Group II

Students take modules to the value of **15** credits from Group II: **15**

CS6311	Mobile and Wireless Networks (5)
CS6313	Services and Mobile Middleware (5)
CS6315	Mobile Systems Security (5)
CS6317	Multimedia Technology in Mobile Networks (5)
CS6319	Applied Machine Learning (5)
CS6405	Datamining (5)
CS6421	Deep Learning (5)

#### Dissertation

Students take **30** credits as follows:

#### Core Modules

CS6400	Dissertation in Computing Science	30
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**Total Credits** **90**