

# Certificate in Artificial Intelligence

## Programme Overview

The Certificate in Artificial Intelligence is a preparatory course for entry to the MSc in Artificial Intelligence.

It is aimed at existing information technology professionals and those migrating from associated disciplines with an interest in and aptitude for transitioning into the area of AI.

Successful completion of the Certificate will lead to the award of a Certificate in Artificial Intelligence (Level 8, 12 ECT credits).

## MSc in Artificial Intelligence

Participants who successfully complete the Certificate in Artificial Intelligence to the equivalent of a 2nd class honours level will be offered a place on the MSc in Artificial Intelligence programme.

For more information on the MSc in Artificial Intelligence programme, visit [www.ul.ie/gps/artificial-intelligence-msc-online](http://www.ul.ie/gps/artificial-intelligence-msc-online)



## Programme Content

### Autumn Semester

#### Introduction to Scientific Computing for AI

An introduction to the core mathematics and core programming skills required in machine learning. Using a number of E-tivities you will hone your Python coding skills as well as your knowledge and skills in Calculus, Linear Algebra and Probability Theory as the three core areas of mathematics that underpin machine learning.

#### Introduction to Deep Learning and Frameworks

A sneak preview of the exciting possibilities that modern machine learning offers, introducing you to the core methods used in machine learning and state-of-the-art networks, such as Convolutional Neural Networks.

The programme is delivered completely online, including all exams and assessments, with a mixture of asynchronous lectures (access at any time), synchronous lectures (on-line at specific times) and moderated online discussions.

Assessment is largely based on assignments and project work with a practical rather than theoretical focus.

## Entry Requirements

The principal entry requirement is a Level 8 honours degree, at minimum second class honours (NFQ or other internationally recognised equivalent) in a relevant engineering, computing, mathematics, science or technology discipline.

Applicants from other disciplines who have a significant mathematics or computing (i.e. programming) element in their primary degree will also be considered.

Applicants who do not meet the requirements above may be considered under the University of Limerick Recognition of Prior Learning policy.

## Funding

Technology Ireland ICT Skillnet offer a fee subsidy for eligible participants. For funding queries:

Email: [info@ictskillnet.ie](mailto:info@ictskillnet.ie)

Visit : [www.ictskillnet.ie/courses/certificate-in-artificial-intelligence-online](http://www.ictskillnet.ie/courses/certificate-in-artificial-intelligence-online)

## How to Apply

For details on how to apply and documentation required, visit: [www.ul.ie/gps/courses/artificial-intelligence-certificate](http://www.ul.ie/gps/courses/artificial-intelligence-certificate)

### Programme Contact

Email: [mags.dunne@ul.ie](mailto:mags.dunne@ul.ie)

Tel: +353 61 213 360

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