



# MSc. in Artificial Intelligence

**Award:** Master of Science  
**Qualification:** NFQ Level 9, Major award, 90 credits  
**Delivery:** Part-Time, Online, Blended Learning  
**Duration:** 2 Years      **Start Date:** September  
**Faculty:** Science & Engineering



## OVERVIEW

An exciting two-year part-time programme to give current and potential AI engineers the skills, theory and recognition they need to develop in their role. Candidates can gain a full MSc degree in this specialist area through a mixed learning process with an emphasis on practical application in the workplace.

## FOR WHOM

The programme is aimed at existing information technology professionals and those migrating from associated disciplines with the necessary computing and mathematics competencies.

## HOW IT WORKS

- The programme will run for two-years part-time including the preparatory Certificate in Artificial Intelligence course.
- Delivered primarily via on-line lectures, supported with tutorials, assignments and some on-campus workshops.
- Assessment is largely based on assignments and project work with a practical rather than theoretical focus.
- Modules will be delivered with associated assessment of mastery so that semester by semester there is a confirmed and measurable achievement of learning objectives that can be transferred directly and immediately to the workplace.
- A major dissertation project will be selected and specified within the first year and completed throughout the second year.

## CERTIFICATE IN ARTIFICIAL INTELLIGENCE

Participants must complete the preparatory Certificate course to the equivalent of a 2<sup>nd</sup> class honours level to be eligible for entry to the Masters, regardless of their prior qualifications or experience. Successful completion of the preparatory Course will lead to the award of a Certificate in Artificial Intelligence by UL (Special Purpose Award, Level 8, 12 ECT credits)

## PROGRAMME OUTLINE

Certificate in Artificial Intelligence	Masters in Artificial Intelligence	
<p><b>Year 1</b></p> <p><b>14 weeks (Sep-Dec)</b></p> <ul style="list-style-type: none"> <li>• Introduction to Scientific Computing For AI</li> <li>• Introduction to Deep Learning and Frameworks</li> </ul>	<p><b>Year 1</b></p> <p><b>SEMESTER 1 15 Weeks (Jan-May)</b></p> <ul style="list-style-type: none"> <li>• Artificial Intelligence and Machine Learning</li> <li>• Data Analytics</li> <li>• Advanced Topic Seminars and Project Identification</li> </ul> <p><b>SEMESTER 2 6 Weeks (May-Jun)</b></p> <ul style="list-style-type: none"> <li>• Research Methods and Project Specification</li> <li>• Risk, Ethics, Governance and Artificial Intelligence</li> </ul>	<p><b>Year 2</b></p> <p><b>SEMESTER 3 15 Weeks (Sep-Dec)</b></p> <ul style="list-style-type: none"> <li>• Machine Vision</li> <li>• Machine Learning Applications</li> </ul> <p><b>SEMESTER 4 15 Weeks (Jan-May)</b></p> <ul style="list-style-type: none"> <li>• Deep Learning</li> <li>• Data Science</li> <li>• Theory and Practice of Advanced AI Ecosystems</li> </ul> <p><b>SEMESTER 5 6 Weeks (May-Jun)</b></p> <ul style="list-style-type: none"> <li>• Project and Dissertation – AI</li> </ul>

## ENTRY REQUIREMENTS

The principal entry requirement for both the Masters course and the Certificate Course 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 possess an honours undergraduate degree, at minimum second-class honours, or equivalent in a non-numerate discipline and have a minimum of three years experiential learning in an appropriate computing discipline (with a high level of either mathematics or programming) may also apply.

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

## More Information

Full brochure with details of content, application process, fees, etc. available at: [www.ul.ie/cpe](http://www.ul.ie/cpe)

For funding /fees queries, and applications contact Susan Kelly, Technology Ireland ICT Skillnet: [info@ictskillnet.ie](mailto:info@ictskillnet.ie)

For course content and delivery queries contact University of Limerick: [Mags.Dunne@ul.ie](mailto:Mags.Dunne@ul.ie)

## Applications

Deadline for applications is 28<sup>th</sup> June 2019

