MSc in Computing
(Artificial Intelligence)

While Artificial Intelligence (AI) has been a core area of investigation since the early days of Computer Science more than 50 years ago, recent years have witnessed an exponential growth in the application of AI in operational settings.

As a result, there is strong demand for graduates with the highly specialised multi-disciplinary skills that are required in AI, both as practitioners in the development of AI applications and as researchers into the advanced capabilities required for the creation of next-generation AI systems. This MSc in Computing (Artificial Intelligence) is designed to meet this training need, by providing a balanced programme of instruction across a range of relevant disciplines.

AI technologies are rapidly emerging from research laboratories into widespread use in key industries.

By co-funding this programme Technology Ireland ICT Skillnet aims to meet not only the needs and ambitions of existing companies and workers based in Ireland, but also supports the national ambition of attracting further investment through expanding the talent pipeline in these interrelated disciplines.

Artificial Intelligence Expertise at DCU

Students on this programme will benefit from DCU's deep research expertise and strong industry focus in this area. The Faculty of Engineering and Computing is host to two major research centers of relevance to AI: the Insight Centre for Data Analytics and ADAPT, which focuses on digital content innovation. Distinctive DCU expertise relates to sensor analytics, vision systems, machine translation and natural language processing. The recent announcement of a very significant SFI and industry-funded Centre for Research Training (CRT) in Artificial Intelligence, in which DCU is a partner, illustrates the industry relevance and breadth of expertise in key AI domains in DCU. The Masters programme builds directly on this strong base.
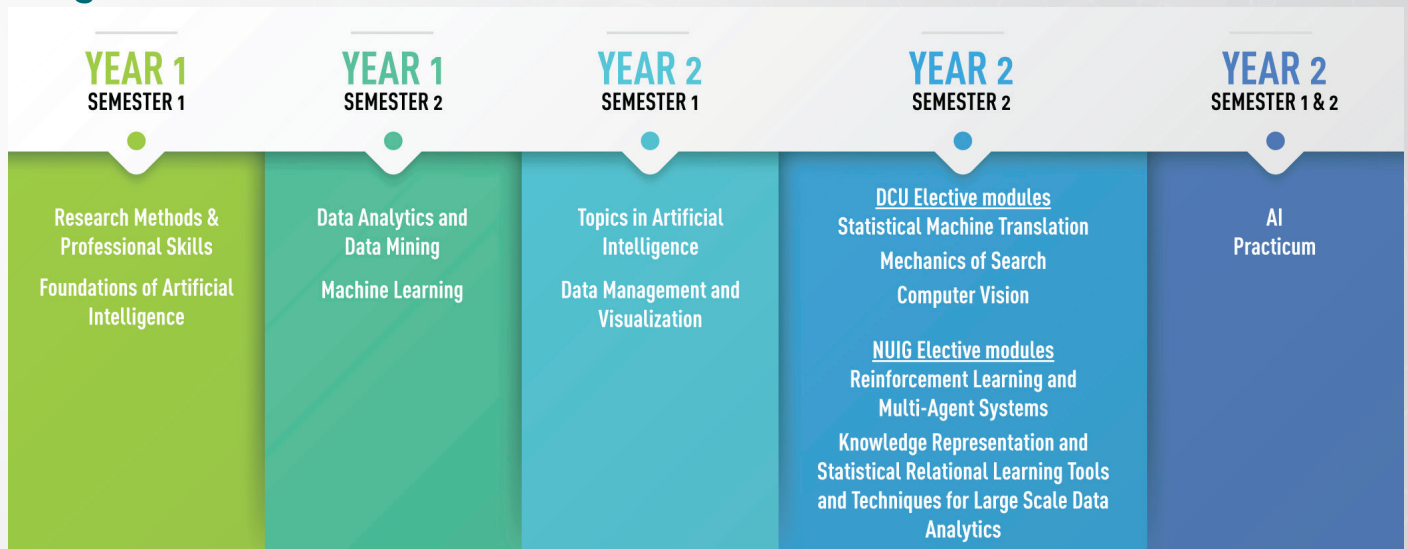
Delivery

The course will be delivered part-time over two years, primarily online. Students will take six core modules and choose from a set of elective modules. In addition, students also complete an AI practicum, the focus of which they will select early in the second year with the main practical work being undertaken over semester 2 and the summer of the second year. Some of the electives will be offered in collaboration with NUI Galway which leverages the combined research expertise of both institutions to address the learner's specific practicum or company focus. While continuous assessment elements for the modules will be submitted electronically, there will also be end of term examinations for which attendance in person at DCU is required.

Who Should Apply

The course is aimed at those employed in Republic of Ireland registered companies. To qualify for direct entry they must have a Level 8 Honours Degree (2.2) or higher in Computer Science, Computing, Computer Applications or a related discipline. Applicants without these entry requirements (e.g., Level 7 degree or lower than an Honours 2.2 in a Level 8 degree) may be considered if they can demonstrate previously obtained competence equivalent to the entry requirements.

Programme Structure[1]

YEAR 1 SEMESTER 1	YEAR 1 SEMESTER 2	YEAR 2 SEMESTER 1	YEAR 2 SEMESTER 2	YEAR 2 SEMESTER 1 & 2
Research Methods & Professional Skills Foundations of Artificial Intelligence	Data Analytics and Data Mining Machine Learning	Topics in Artificial Intelligence Data Management and Visualization	**DCU Elective modules** Statistical Machine Translation Mechanics of Search Computer Vision **NUIG Elective modules** Reinforcement Learning and Multi-Agent Systems Knowledge Representation and Statistical Relational Learning Tools and Techniques for Large Scale Data Analytics	AI Practicum

[1] Accurate at time of printing.

How To Apply

In the first instance applicants should submit their CV directly to **info@ictskillnet.ie**. After initial screening applicants will be advised on next steps.

Fees

Successful candidates may be eligible for the part-funded fee of €2,950 per annum provided they are working in private or commercial semi-state organisations registered in the Republic of Ireland.

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