Higher Diploma in Science in Computing

(With specialisation in Artificial Intelligence / Machine Learning) (Online Directed E-Learning delivery)

This is an online learning course that features Directed E-Learning activities such as live online classroom sessions and tutorials/videos on the College's e-learning system. This allows for online class time to be interactive, practical, and focused, with theory-based content being covered outside of class time with self-paced tutorials/videos, and practical content being covered in live online classes with support from lecturers.

Online Directed E-Learning Delivery (1 Year)

Location: Online

Start Date: This course is expected to start in the week commencing 22nd September 2025.

Indicative Schedule: Tuesday and Thursday 18.00 - 22.00.

There will also be on average five hours self-paced learning per week on NCI's Learning Platform weekly. This will not appear on your timetable.

Career Bridge classes will be delivered one day per week in Semester one from 17.00 to 18.00. Day to be confirmed.

Duration: September to December 2025, January to May 2026 and May to August 2026.

Applications: Apply online at https://springboardcourses.ie

Fees: A student contribution fee of €595 is applicable if you are in employment. No fees applicable if you are unemployed. The scheme does not cover any allowance for books and materials.

If a student contribution fee is applicable this must be paid in full no later than Friday 14th of November 2025.

Course Description

The course teaches students the computing fundamentals, complemented with detailed knowledge, problem-solving and specialised technical skills required for analysing, designing and developing technical software solutions. The second semester consists of a focused set of modules that are specific to the Artificial Intelligence and Machine Learning specialisation. The course aims to impart awareness and appreciation of relevant topics in the area of specialisation.

The Artificial Intelligence and Machine Learning stream provides learners an understanding and application development of Al-powered products by leveraging expertise in machine learning and computational methods.

Career Prospects

The Higher Diploma in Science in Computing with specialisation in Artificial Intelligence//Machine Learning is tailored to address the demands of the IT industry and enhance graduates' employment prospects. Over the past two years, companies that have hired graduates from the Higher Diploma in Science in Computing include: ICT Graduate Programme (Kerry Group), Software Developer (Merkle), Business Information Specialist, Analytics (AIB), Technical Support (Survey Monkey), Senior Technical Support Engineer - Service Cloud (Salesforce), System Engineer (Jaguar Land Rover)

Who is the course for?

This course will appeal to graduates with a level 8 degree from different backgrounds who would wish to change their non-ICT qualification into the computer science field through a level 8 award in computing. Nonetheless, it is noted that the course is technical in nature and will entail a significant amount of independent study. Given the content and the timescale you will need to have a strong commitment to the course and a willingness to fully engage with the technical content.

Academic Entry Requirements

A level 8 degree or its equivalent in a non-cognate discipline. Non-standard applications will be also considered on an individual basis. 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 extensive relevant work and other experience. This may be assessed through a portfolio of learning, demonstration of work produced, interview and assessment.

Non-English speaking applicants must demonstrate fluency in the English language as demonstrated by an IELTS academic score of at least 6.0 or equivalent. Visit https://www.ncirl.ie/English-Language-Requirements-International for more information.

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 8GB of RAM (16GB are recommended); a modern 64bit x86 processor (Intel i5 or superior); 250+ GB of available space in hard disk; WiFi card; and a recent version of Ubuntu, macOS or Windows. 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 does not provide support for personal devices.

This course requires internet access you will be required to ensure you have sufficient broadband speed and reliable connectivity from your place of study.

Free Laptop loan for eligible students on this course: Students who are eligible for HEA funding for this course may also be eligible for a free laptop provided on a loan basis for the duration of the programme. This will be a suitable specification machine for completion of the programme but must be returned once you have finished your course. Overall numbers of laptops available are subject to maximum numbers and no other alternatives can be offered.

Visit https://www.ncirl.ie/Laptop-Loan-Scheme for updates on the next opening date for applications.

Assessment

The course will be assessed with a blend of continuous assessments and/ or project work and exams. Please note that in some instances exams may take place in the daytime, evenings and at weekends.

Award and Progression

For all streams regardless of specialisation, your award will be a Higher Diploma in Science in Computing awarded by QQI at level 8 on the National Framework of Qualifications (NFQ). Students who successfully complete this course may be eligible to progress to a major award at level 9 on the NFQ.

As graduates from other disciplines and with work experience, learners will have life skills and experiences that they will bring with them on the programme and into a new subject domain. Therefore, they are eligible for a number of roles. They could work in positions that are in-line with their skills but in the ICT sector, or apply ICT knowledge gained through this programme to their current role.



