



National  
College of  
Ireland

# MICRO CREDENTIALS

at **NCI**

Short programmes giving you key skills.

Accredited postgraduate programmes delivered online by experienced faculty.

The latest thinking in business, computing, and education.

Microcredentials are drawn from our postgraduate programmes so you can progress to a full award, which means you will get credit for this module.

If you need to get quickly up to speed in emerging areas, these programmes are for you.





# The Science of Decision Making

**Qualification:**

5 ECTS Credits at Level 9

**Schedule:**

30 hours contact time

6 hours per week over 5 weeks

**Delivery:** Online

**Start dates:**

Throughout the year.

See [www.ncirl.ie](http://www.ncirl.ie) for more information

**Fee:** €950


This programme introduces the student to the science of decision making and is designed to help students become more effective decision makers. The programme draws on the latest research in the field of decision making and draws on work in areas such as psychology, economics, marketing, and HR. Students will learn to understand and use their two modes of thought, 'system 1' which allows us to make fast, intuitive decisions and 'system 2' which is slower and more analytical.

This microcredential programme is drawn from our MBA and postgraduate business programmes and will develop your understanding of decision making and how to apply this knowledge in your professional and personal decision making.

## Topics covered

- The psychology of a decision. You will understand the models that underlie your own judgement and decision making and that of other people, and be able to apply that to business and real-world contexts.
- You will understand modes of decision making under risk and be able to evaluate heuristics and cognitive biases that influence our decision making.
- You will learn how to critically evaluate group decision making.
- You will get to personally reflect on your own decision making and learn how to improve this skill.



# Sustainable Business Leadership

**Qualification:**

5 ECTS Credits at Level 9

**Schedule:**

30 hours contact time

6 hours per week over 5 weeks

**Delivery:** Online**Start dates:**

Throughout the year.

See [www.ncirl.ie](http://www.ncirl.ie) for more information.**Fee:** €950

This programme gives a deep understanding of how to address sustainability in any organisation. It addresses the process by which firms integrate environmental concerns into their decision making. The course gives detailed insight into sustainability and the different perspectives on the concept. Students will examine the global trends driving sustainability and be able to apply sustainable leadership principles.

There are many reasons to care about how an organisation may interact with the environment – from basic reasons, such as cost reduction and regulatory compliance, to more innovative, entrepreneurial opportunities. This programme will give you a deep understanding of these issues. Participants will be guided to construct an actionable sustainability plan for an organisation.

**Topics covered**

- Perspectives on sustainability. You will learn about the role and scope of sustainable business and its relevance to business and other organisations.
- Leadership, change management and corporate governance in sustainability.
- You will cover accountability and the legal framework alongside the metrics and tools used for reporting on sustainable activities, and understand risk management and how businesses can avoid exposure.
- The programme then looks at the implementation of sustainability and specifically examines this from the perspective of marketing, supply chain management and operations management.

# Business Intelligence

**Qualification:**

5 ECTS Credits at Level 9

**Schedule:**

30 hours contact time

6 hours per week over 5 weeks

**Delivery:** Online

**Start dates:**

Throughout the year.

See [www.ncirl.ie](http://www.ncirl.ie) for more information.

**Fee:** €950

Data is often called 'the new oil' and all organisations have access to a wide variety and depth of data that they can use to grow or change in a variety of areas. But how do you as a manager understand and shape this data?

This short programme will guide students to shape and use data to make more-informed, better management decisions using both primary and secondary data. Students will learn to understand data and data governance and gain the capacity to use quantitative methods and the output from data analytics to make more data-informed decisions. The programme is ideal for managers interested in the basics of data analytics, how to work with data analytics specialists and how to frame business problems in such a way to arrive at informed decisions efficiently.

## Topics covered

- You will learn about 'big data', what it is, the challenges around it and opportunities from simple insights through to data mining and Artificial Intelligence.
- You will learn how to frame the business problem, how to ask the right question, how to ask a measurable question and to determine what you need from the data you have. You will also learn the dangers of using the wrong data to answer a question.
- You will learn about data governance, what data sets are currently available, how to find good data, how to set up a data infrastructure and how to use current datasets to answer your question.
- You will be introduced to data analytics including understanding the use of descriptive, diagnostic, predictive and prescriptive data analysis. You will also be introduced to the tools used to analyse data such as Excel, SPSS, SAS, Tableau, R, Python and to the methods used to analyse data such as A/B testing, regression and machine learning.
- The programme will also cover making decisions with data, delving deeper into data, knowing when to stop analysing and start deciding and the limits of data in decision making.
- You will also consider the ethical and organisational issues of data such as implementation, GDPR, privacy, hacking and other concerns.

# Certificate in Technologies in Teaching and Learning

**Qualification:**

10 ECTS Credits at Level 7

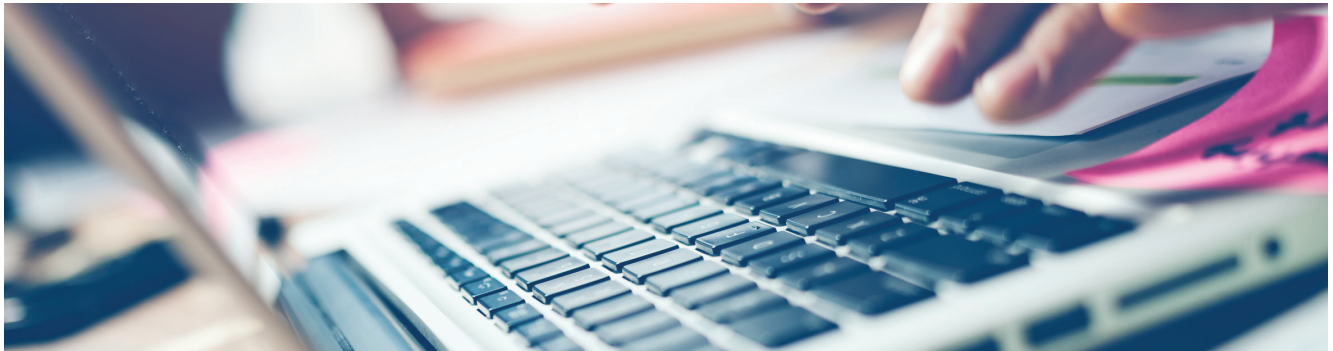
**Schedule:**

Two full-day virtual sessions from 10am-5pm, combined with four two-hour virtual classroom sessions, and directed online activities. Virtual classes will take place from 4-6pm on Thursdays. The entire programme will be scheduled over 12 weeks.

**Delivery:** Online

**Start dates:**

Sept 2022 and throughout the year.  
See [www.ncirl.ie](http://www.ncirl.ie) for more information.

**Fee:** €1,200


This microcredential, aimed at learning professionals, will allow you to engage with current thinking on the integration of digital technologies and resources in teaching/instruction and learning, and in self-reflection on current practices. You will investigate a range of appropriate technologies and develop instructional strategies to enhance teaching/instruction and learning, as well as build on your own learners' digital capabilities.

Following a practitioner inquiry model, you will develop the knowledge, skills and competence to systematically plan, implement and evaluate instructional strategies that integrate technology. The programme aims to enhance your capability to extend professional practice goals using digital technologies, and to develop strategies to facilitate technology-enhanced learning and teaching experiences.

**Topics covered**

- You will learn to select and use appropriate digital technologies to enhance teaching and instruction.
- Design an appropriate blend of instruction to achieve professional goals in their area of practice.
- As part of the programme, you will critically evaluate your own learning and communicate this to colleagues.

**Entry**

Candidates will be learning professionals working in a further education and training setting or similar and will typically have a Certificate (major award) at Level 6 on the National Framework of Qualifications in any discipline.

# Certificate in Digital Capabilities and The Learner Experience

**Qualification:**

10 ECTS Credits at Level 7

**Schedule:**

Two full-day virtual sessions from 10am-5pm, combined with four two-hour virtual classroom sessions, and directed online activities. Virtual classes will take place from 4-6pm on Thursdays. The entire programme will be scheduled over 12 weeks.

**Delivery:** Online

**Start dates:**

Sept 2022 and throughout the year.  
See [www.ncirl.ie](http://www.ncirl.ie) for more information.

**Fee:** €1,200


Digital technologies are transforming how we live and work, and effective and appropriate use of technologies by learning professionals is central to developing learners' digital capabilities – the knowledge, skills and dispositions required to thrive in a digital society.

In this microcredential programme, you will explore the dynamic relationship between technological innovation, education and technology-enhanced learning. You will explore the policy context for the development of technology-enhanced learning in relevant Irish sectors, and the use of digital capability frameworks to inform and structure future practices.

This short course aims to enhance your capability to extend professional practice goals using digital technologies, and to develop strategies to facilitate learners' digital capabilities.

**Topics covered**

- You will learn to appraise digital capabilities, involving personal, organisational and learner competences and to utilise a combination of these capabilities to achieve learning uplift.
- You will understand how to propose future scenarios to facilitate learners' digital capabilities and present these to colleagues.

**Entry**

Candidates will be learning professionals working in a further education and training setting or similar and will typically have a Certificate (major award) at Level 6 on the National Framework of Qualifications in any discipline.



# Certificate in Technologies in Assessment, Feedback and Learning Support

**Qualification:**

10 ECTS Credits at Level 7

**Schedule:**

Two full-day virtual sessions from 10am-5pm, combined with four two-hour virtual classroom sessions, and directed online activities. Virtual classes will take place from 4-6pm on Thursdays. The entire programme will be scheduled over 12 weeks.

**Delivery:** Online

**Start dates:**

Sept 2022 and throughout the year.  
See [www.ncirl.ie](http://www.ncirl.ie) for more information.

**Fee:** €1,200


In this online microcredential course you will engage with current thinking on effective assessment and feedback practices and their significance for teaching and learning. You will critically reflect on your current practices and explore the opportunities for enhancement by investigating a range of appropriate digital tools that can support learners and guide instruction at different stages of the assessment and feedback lifecycle. You will also learn how to integrate accessibility and inclusion objectives in planning, implementation, and evaluation of instructional strategies in an online, bite-sized manner.

**Topics covered**

- You will learn to use appropriate digital tools to support learners and guide instruction.
- The course will also enable you to interpret universal design principles and apply an appropriate example in practice.
- You will also learn to utilise learner data to improve instructional outcomes and demonstrate to colleagues.

**Entry**

Candidates will be learning professionals working in a further education and training setting or similar and will typically have a Certificate (major award) at Level 6 on the National Framework of Qualifications in any discipline.



# Data Governance and Cybersecurity

**Qualification:**

10 ECTS Credits at Level 7

**Schedule:**

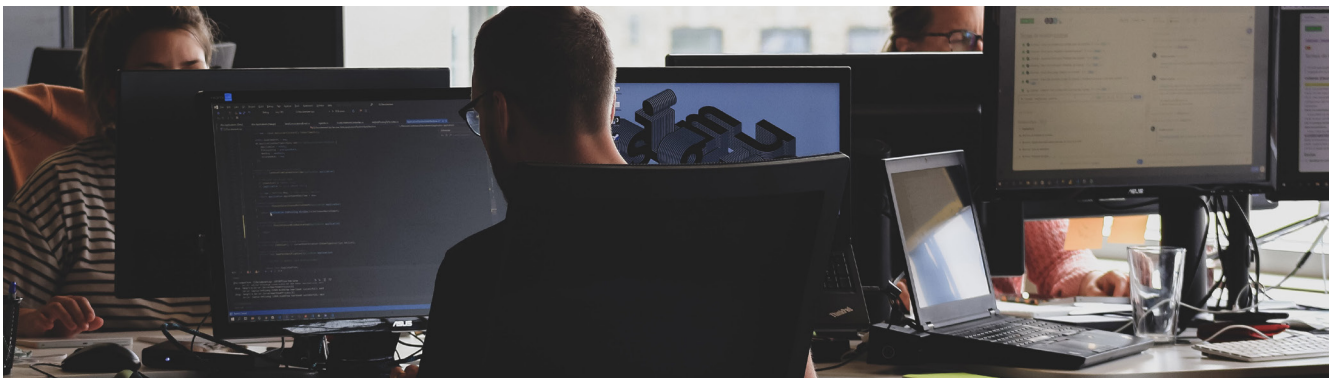
One evening of live online lectures per week from 18.00 – 20.00. There will also be two hours self-paced learning per week on NCI's Learning Platform, consisting of recorded content and materials which you can access at a time that suits you. The programme runs over 12 weeks.

**Delivery:** Online

**Start dates:**

Sept 2022 and throughout the year.  
See [www.ncirl.ie](http://www.ncirl.ie) for more information.

**Fee:** €695 (Cohorts of this programme have been funded by IFS Skillnet reducing the fee to €500 for IFS Skillnet members, see [ncirl.ie](http://ncirl.ie) for details.)



The aim of the Data Governance and Cybersecurity microcredential programme is to provide students with the knowledge, skills, and competence around security and data governance. The programme provides learners with data management and cyber skills to understand the current cyber landscape, identify common threats to data assets, and plan appropriate measures and controls to safeguard data assets. The Data Governance and Cybersecurity microcredential programme aims to give learners a systematic understanding of key aspects and activities of the data lifecycle management including data classification, data quality, and data risk management. Finally, the programme will also introduce the learner to the regulatory frameworks surrounding financial technology and foundational activities such as security, data protection, and compliance.

**Topics covered**

- You will understand the key data lifecycle stages and reliance on these for effective information governance in real-world settings.
- You will understand a broad range of core policy and legal aspects in data governance and compliance for financial applications.
- The course will allow you to describe the requirements to ensure confidentiality, integrity and availability of information and systems.
- You will be able to understand and debate the key concepts of risk management and information technology resilience and describe the key threats to information systems and data processing services.

# Fundamentals of Software Development

## Qualification:

10 ECTS Credits at Level 7

## Schedule:

One evening of live online lectures per week from 18.00 – 20.00. There will also be two hours self-paced learning per week on NCI's Learning Platform, consisting of recorded content and materials which you can access at a time that suits you. The programme runs over 12 weeks.

## Delivery:

Online

## Start dates:

Sept 2022 and throughout the year.

See [www.ncirl.ie](http://www.ncirl.ie) for more information.

## Fee:

€500



This short programme will guide you to learn to create software applications and gain a great foundation in the computing industry.

The course gives learners the fundamental knowledge needed to enter the computing industry, or to progress on to further higher education courses. This course is designed with flexibility in mind, allowing learners to work through bespoke video content and guided tutorials during the week, with a live online practical class on one evening following the videobased material and exercises. Self-paced content is broken into small manageable chunks, and live sessions are designed for live questions and answers based around industry issues and practical problems.

This microcredential course will appeal to those who are new to computing, or those that need a refresher in modern programming skills.

## Topics covered

The course will give you programming skills and knowledge. The core module focuses on programming and problem solving in Java.

Students will learn relevant skills sought by industry such as:

- Java
- Object Oriented Programming
- Problem solving techniques
- Algorithm design
- Version control







**Course information:** 1800 221 721

**Reception:** (01) 4498500

**Email:** [admissions@ncirl.ie](mailto:admissions@ncirl.ie)

**Web:** [www.ncirl.ie](http://www.ncirl.ie)

**We are located at:**

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Dublin 1,  
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