Graduate Certificate in Financial Intelligence and Technology
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Why Do These Microcredentials?

Financial Intelligence and Technology covers a range of skills that are both in short supply and highly demanded. This includes the ability to develop modern financial products and services that customers, especially young customers, want to use.

We also develop a richer understanding of who the financial customer is, a behavioural and design aspect which is vital in terms of customer willingness to adapt new financial services and products. For that we focus in Financial Innovation & Technology on the technical skills of financial data science and machine learning.

Overall you will develop a deep understanding of the FinTech industry driven by our research and industry expertise and blend this industry perspective with DCU Business School’s innovation and entrepreneurial focus.

For this reason, the content has been jointly developed by the Finance Faculty of the Business School and DCU’s internationally recognised Irish Institute of Digital Business.

The Graduate Certificate in Financial Innovation & Technology is designed to be highly practical with an immersive learning application at its core. It is a new approach to financial education to suit the new approach to finance that FinTech encompasses.

Online Delivery

These microcredentials will be delivered 100% online. The programme will be delivered on a Wednesday evening, from 7pm – 8.30pm (microcredential 1) and from 8.30pm – 10pm (microcredential 2).

Each microcredential will require a commitment of 3 hours per week for 9 weeks – 90 minutes of pre-recorded asynchronous material and 90 minutes of live class discussion, emphasising collaborative learning and interaction. Students should also allow for additional time for continued ready, group assignments etc.

Students will be assessed via continuous assessment (eg: through assignments but not through written exam).

All registered students will have access to DCUs eLibrary and DCU’s student portal, Loop.

Find Out More - business.dcu.ie
Who Is This Course For?

The Financial Intelligence and Technology microcredentials and the Graduate Certificate in Financial Intelligence and Technology are designed for people who want to add modern financial techniques and Financial Intelligence expertise to their existing finance experience.

This digital finance competency will enable students to transition to emerging roles that require this knowledge, and to position themselves as champions of this new approach to finance in the workplace.

The financial Intelligence skillset that this program develops will also work in terms of kickstarting entrepreneurial approaches to finance, both in a start-up sense and within firms.

This course is comprised of four DCU Business School micro-credentials, which can be either taken individually or all together for the award of a Graduate Certificate in Financial Intelligence and Technology.

Each micro-credential is a DCU module of 7.5 ECTS credit value, we use the term micro-credential to refer to the ability to take individual modules as a qualification.

These will be delivered by the DCU Business School Financial and Operational Performance group through online delivery.

The content has been jointly developed by the Financial and Operational Performance group and DCU’s Irish Institute of Digital Business research centre.

The four micro-credentials comprising the programme are:

- FinTech-Financial Technology and Innovation
- Data Science for Finance
- Financial Machine Learning and Automation
- Design and User Experience for FinTech

All four microcredentials are Level 9 qualification modules under the National Framework of Qualifications.
**GENERAL OVERVIEW**

The Graduate Certificate in Financial Intelligence and Technology, as an overall programme, consisting of four microcredential modules, is delivered as two modules in Period 1 and two modules in Period 2.

In each period, two modules are delivered in an online mode. There will be three one and a half hour live interactive classes every Wednesday evening, 7-8.30pm, and approximately an hour and a half per module per week of self-directed learning from pre-recorded videos of more technical material that you can choose when to watch.

In the first year the Microcredentials will be delivered as follows: Microcredentials 1 & 2 from September – December 2022. Microcredentials 3 & 4 will be delivered from January – April 2023.

Microcredentials are an accessible gateway back into Higher Education. Students can take a specific module (or range of modules) as it suits them. Once a student has completed all 4 modules of this course they will receive the Graduate Certificate in Financial Intelligence and Technology, in this way people can tailor the course to their own needs.

We use a ‘best of online’ delivery mode for the microcredentials, based on our experience in DCU Business School of delivering all courses online during the academic year 2020/21.

By blending asynchronous and synchronous, we allow the person to select when they can learn best (through asynchronous), but also benefit from group interaction and co-learning (through synchronous live online classes).

The modules are co-developed with the IIDB, the largest digital business research centre in Ireland. This ensures that the content is research and practice-led and thus fully modern in outlook.

Modules can be taken individually over a period of time or all together.

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**SEPT - DEC ’22**

- **Module 1** Data Science for Finance
- **Module 2** Financial Technology and Innovations

**JAN - APRIL ’23**

- **Module 3** Financial Machine Learning and Automation
- **Module 4** Design and User Experience for Fintech
**Module 1**  
**Data Science For Finance**

This microcredential covers the nature and approaches of data science and, in specific, will approach finance through an immersion in Python coding.

Python is the most popular language of data science and this module will bring you from the very basics of coding in Python through to advanced techniques for understanding financial data.

The module is relevant to anyone wishing to acquire or deepen their knowledge of the subject matter.

Employees working with financial data will particularly benefit.

Module Fee €1299  
IFS Skillnet Member Fee: €865

**Module 2**  
**Financial Technology:**

This microcredential explores the interaction of finance and technology and its impact on the financial services industry.

The main objectives are to deepen learners’ knowledge of the FinTech landscape, encourage learners to think critically across a range of financial and technology contexts, and discern the challenges and complex issues pertaining to this emerging and evolving space.

The module is relevant to anyone wishing to acquire or deepen their knowledge of FinTech. Employees who might see the potential to introduce financial innovations, will particularly benefit.

Module Fee €1299  
IFS Skillnet Member Fee: €865

**Module 3**  
**Financial Machine Learning & Automation**

This microcredential develops knowledge of the techniques of machine learning to learn from financial data. Through the application of artificial neural networks, support vector machines, random forests, and gradient boosting, we will bring new levels of understanding to financial models.

The module is relevant to anyone wishing to acquire or deepen their knowledge of the subject matter. Employees working with financial data will particularly benefit.

Module Fee €1299  
IFS Skillnet Member Fee: €865

**Module 4**  
**Design & User Experience for FinTech**

We are driven in our decision making by a whole range of emotions, heuristics, and cultural influences. This microcredential guides you through an understanding of financial behaviour. The micro starts by laying a foundation for understanding behavioural influences on financial decision making.

The module is relevant to anyone wishing to acquire or deepen their knowledge of the subject matter. Employees working with financial product development and design will particularly benefit.

Module Fee €1299  
IFS Skillnet Member Fee: €865
About DCU Business School

Accredited by both the AACSB and AMBA, DCU Business School is ranked amongst the top Business Schools in the world. At DCU Business School we place innovation at the heart of everything we do.

We respond to the needs of people, organisations and societies with agility and dynamism. We do this to ensure our academic programmes are ahead of the curve, and our graduates enter the world of work equipped with the latest and most relevant knowledge and skills.

Our solid industry relationships have allowed us to instil an enterprising culture into our postgraduate courses which has resulted in DCU Business School’s reputation as Ireland’s most innovative business school.

IFS Skillnet is co-funded by Skillnet Ireland and member companies. Its aim is to support the IFS sector in maintaining Ireland’s position as a top international financial services centre, through ongoing investment in the development of the skills and expertise of this workforce.

Please also add their contact details:

IFS Skillnet
84-86 Lr Baggot Street
Dublin 2
Email: info@ifsskillnet.ie
Web: ifsskillnet.ie

Find Out More And Apply

This programme begins in February 2022. For details on programme fees and the application process please visit: business.dcu.ie

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