



MSc in Data Analytics

ONLINE • PART-TIME • NFQ LEVEL 9

www.ictskillnet.ie



Unleash your unstoppable potential, with Technology Ireland ICT Skillnet

Technology is ever-changing. No matter what stage you are at in business or your career, there is always more to learn.

At Technology Ireland ICT Skillnet, our vision is to create **progressive futures**, helping organisations to **transform at scale** and individuals to **develop a competitive edge**, through the **power of learning**.

For almost two decades, Ireland's leading technology companies have trusted us to build the critical skills needed to thrive in a rapidly evolving market.

Let us connect you to the infinite possibilities shaping the world of tomorrow.



Supercharged skills

Each of our programmes are designed, developed, and validated by specialists from academia and industry, working together, with a constant focus on:

1 **Creating opportunity and momentum** for experienced professionals and those starting out or transitioning career.

2 Delivering learning solutions in a way that **balances work and study**.

3 Providing practical skills, along with the theoretical, allowing businesses to **navigate new frontiers in the world of tech**.



5,000+

companies supported



12,000+

learners upskilled



30+

professional programmes



Online, blended, and
in-company training supports



Government-subsidised
programme fees, up to 100%

MSc in Data Analytics

Unlock the hidden potential of data

In today's data-centric world, industries worldwide grapple with massive data influx. The proliferation of information, from customer preferences to market trends, presents many opportunities but also many obstacles.



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The need for professionals well-versed in data analytics has never been more critical. Businesses need talented data specialists to be able to make informed decisions, enhance efficiency, and secure data assets in an increasingly competitive landscape.

This 2-year online and part-time MSc in Data Analytics has been developed for ICT professionals and graduates from related fields, looking to be trained in both the technical intricacies and the business applications of data. The in-depth collaboration between industry and academia and the focus on practical, real-world scenarios ensures everything you learn can be applied to a live environment and that you feel empowered to decode data challenges.

Elevate your career prospects and become a sought-after data analytics specialist with our MSc in Data Analytics programme. Your future in data awaits.



At a glance

Start Date

January 2025

Award

Level 9 NFQ (90 ECTS)

Delivery

Online – Live Lectures, video recordings and reading materials (via Moodle)

Duration

2 years part-time
Classes are held on Tuesdays and Thursdays from 6-10pm

Fees

Skillnet subsidised: €2,950 per year
Non-subsidised: €3,875 per year

Programme Partner

National College of Ireland



Who this programme is for

- ▶ Graduates in related fields that are looking to progress into the emerging area of data analytics, to increase their employment progression potential.
- ▶ Career switchers or professionals from related disciplines with technical or mathematical problem-solving skills.
- ▶ Current data analysts who want to gain a recognised qualification to help them develop in their role and career.

Semester and module breakdown

The MSc in Data Analytics programme is a 2-year 90-ECTS course. Learners are required to complete 20-ECTS during each of the taught semesters and then a final 6-month semester completing the Research Project and Data Governance and Ethics modules.

In addition to the core modules, there is a choice of two electives: one in Year 1 Semester 2 and one in Year 2 Semester 1.

Elective modules are subject to availability. The first elective module chosen will determine further elective choices.

Semester Breakdown

- **Semester 1:** Jan – May Year 1
- **Semester 2:** Sept – Jan Year 1
- **Semester 3:** Jan – May Year 2
- **Semester 4:** May – Jan Year 2

Year 1 – Elective Choices

- Business Intelligence and Business Analytics
- Innovation I
- Data Intensive Architectures

Core Modules (80 Credits)

- Statistics for Data Analytics
- Database and Analytics Programming
- Data Mining and Machine Learning I
- Data Mining and Machine Learning II
- Modelling, Simulation and Optimisation
- Research in Computing
- Data Governance in Ethics
- Research Project

Year 2 – Elective Choices

- Domain Applications for Predictive Analytics
- Innovation II
- Scalable Systems Programming

Outcomes for you



Upon completion of this course, you will have an advanced understanding of how to:

Evaluate and communicate business and technical strategies for data analytics.

Demonstrate expert knowledge of data analysis, statistics, and the tools, techniques and technologies utilised in both technical and business contexts.

Conduct independent research and analysis in the field of data analytics.

Formulate and implement a novel research idea using the latest industry practices.

Assess ethical and data governance issues relevant to the storage, transfer, and processing of data for analytical purposes.

Develop and implement effective business and technical solutions for data analytics.

Assessment



The programme will be assessed with a blend of:

Continuous assessments

Directed activities and pre-class prep work

Live online class attendance records

Award



Participants will receive a parchment for the Master of Science in Data Analytics upon successful completion of the programme.

Academic eligibility



Candidates must have a Level 8 Honours Degree with a 2.2 award or higher on the National Framework of Qualifications. Candidates may be from a cognate/STEM (science, technology, engineering or mathematics) background. Standard applicants for the programme are those holding computing or numerate degrees.

The college operates a Recognition of Prior Experiential Learning (RPEL) scheme meaning applicants who do not meet the standard academic requirements may be considered based on relevant work and other experiences. This may be assessed using a portfolio of learning, demonstration of work produced, and an interview. The programming ability of the applicant will also be assessed.

Non-native English speaking applicants must demonstrate fluency in the English language as outlined by IELTS, with an academic score of at least 6.0 or equivalent.

Funding eligibility

The fees for this programme are part-funded by Technology Ireland ICT Skillnet. The reduced programme fees are €2,950 per year.

Applicants must be working in a private or commercial semi-state organisation registered in the Republic of Ireland (Business, Consultant, Freelancer) to avail of the grant-aided fees. As a government-funded training network, we can only support those meeting these criteria.

Applicants who do not meet our funding criteria may in some cases be able to apply and pay the full fee of €3,875 (per year) if there are available places.

Please speak with our programme team to learn more about the availability of funding.

info@ictskillnet.ie

Programme delivered in partnership with:



National
College of
Ireland

National College of Ireland (NCI) is an exciting, innovative and forward-thinking third-level institution. NCI is a specialist college and provides a range of undergraduate, postgraduate and higher diploma programmes through its School of Business, School of Computing and Center for Education and Lifelong Learning. All qualifications are globally recognised, and you can be guaranteed exceptional quality and an excellent learning experience.



Ready to develop your career in Data Analytics?

Our team is ready to answer any questions you might have regarding this programme. Send an email to info@ictskillnet.ie or use the enquiry form on our programme page and one of our programme leads will be delighted to assist you.

Successful applicants will be required to complete registration details both for Technology Ireland ICT Skillnet and for National College of Ireland. Programme participants will become registered students of the National College of Ireland.

Start your learning journey today
with Technology Ireland ICT Skillnet

Learn More

Embrace the future with confidence, with Technology Ireland ICT Skillnet as your training partner.



Programme pillars

Our wide range of programme channels allows you to access training in the latest technologies driving business development.

 Artificial Intelligence	 Blockchain	 Cloud	 Cybersecurity
 Data Analytics	 Fintech	 Global Business Services	 Innovation & Transformation
 Leadership	 Quantum	 Software Architecture	 Software Development

Industry approved

With the support of our Industry Steering Group, made up of some of Ireland's most progressive companies, you can be assured that our programmes will provide you with the most relevant and cutting-edge skills that industry demands.



Certification you can trust

Through our strategic partnerships with some of Ireland's most influential higher education institutions, we offer a range of certificate, diploma, and masters programmes, with awards accredited on the National Framework of Qualifications.



Join 12,000+ learners who have transformed their careers with us. **Explore our range of courses >**

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UNLEASH YOUR
UNSTOPPABLE POTENTIAL



Get in touch to invest in your development.
Email: info@ictskillnet.ie Call: +353 (0)1 469 3754

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Rialtas na hÉireann
Government of Ireland



Co-funded by
the European Union