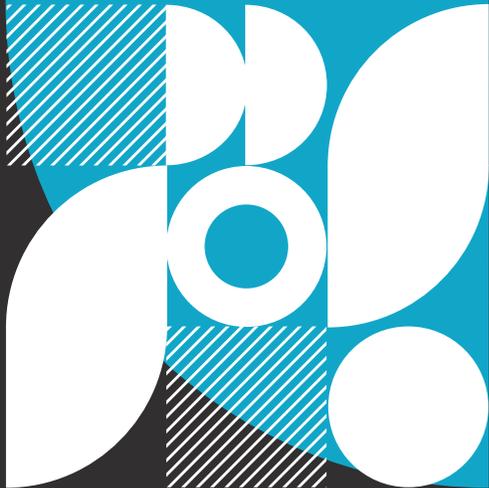


ibat

Institute of Business
and Technology

Your future
starts here

Technology Diplomas



Prospectus
2020/21

ibat.ie

Your future starts here

98%

of our diploma graduates would recommend us to family and friends

Whether you're preparing for your first job, looking to up skill or take the first step in a new direction, we will help you achieve your goals.

In 2016 the College was acquired by Global University Systems group, one of Europe's largest private University & College groups.

This acquisition provides the College with the opportunity to widen the market reach of its programmes through GUS's international education network, which extends across more than 60 countries, and to broaden the portfolio of programmes available at the College through collaboration with GUS partners. In addition we can state we have a truly international student base with over 40 nationalities studying in IBAT.

Our philosophy

Industry-focused outcomes, underpinned by solid academic foundations.

Our people

The academic team at IBAT present with significant lecturing experience and also have many years industry experience.

Our students

We support our students throughout their college experience and into their working lives by providing them with some of the most applied course content and teaching techniques in the country.

Our programmes

Undergraduate, post-graduate, English language programmes, and executive training.





Industry connected

We integrate the latest industry trends and tools into your course material, to help you gain an edge in the market.



Learn from the experts

We have the best industry experts in the field to give you the relevant and engaging experience possible.



City centre location

Evening classes are taught in the heart of the city, close to parking and public transport.



Small class sizes

Small class sizes give you more dedicated time with your teacher and focus on developing your skills.



Live online classes

IBAT is now offering 100% interactive learning via virtual classrooms, all at an affordable price.



Career focused support

We help you turn your passion into a rewarding career. Our support is designed to help you succeed in your studies.



Locally relevant

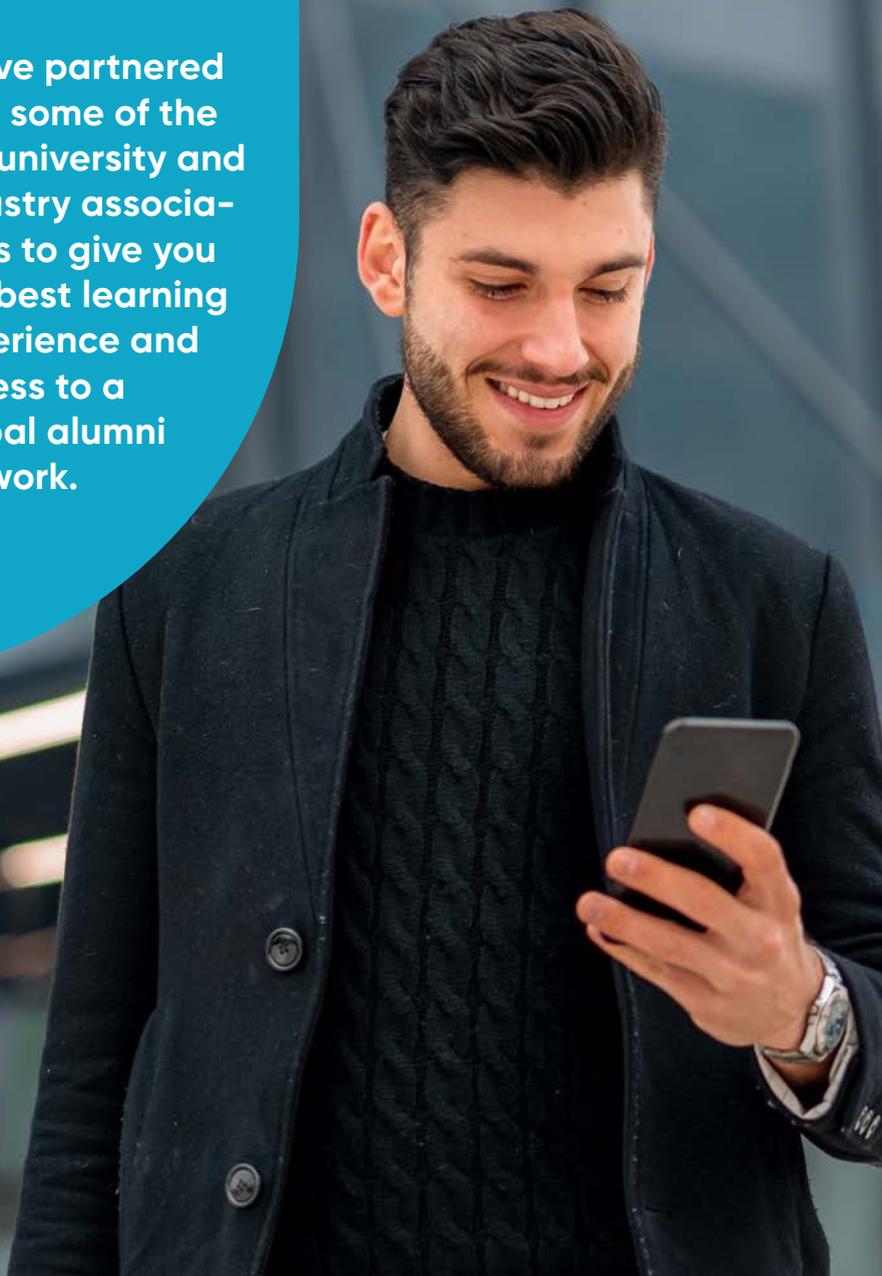
Links with 400+ private enterprises, public organisations and NGOs in Ireland, including indigenous businesses.



Globally relevant

Partnerships with some of the best industry and university associations from around the world.

We've partnered with some of the top university and industry associations to give you the best learning experience and access to a global alumni network.



Qualifications and partners

99%

of our diploma graduates said their course helped them further their career



University of Wales Trinity Saint David (UWTSD): UWTSD was formed in 2010 and Swansea Metropolitan University became part of it in 2013. The University's Royal Charter is the oldest in Wales and England after Oxford and Cambridge. In 2011 HRH the Prince of Wales became its Royal Patron.



Quality and Qualifications Ireland (QQI): QQI is the qualifications awarding body for third-level educational and training institutions outside the university sector in Ireland. QQI awards qualifications at all levels of higher education and training up to PhD level.



Project Management Institute (PMI): The PMI serve practitioners and organisations with standards that describe

good practices, globally recognised credentials that certify project management expertise, and resources for professional development, networking and community.



Accreditation and Co-ordination of English Language Services (ACELS): The Department of Education and Skills has given ACELS the responsibility for monitoring the sector. Since January 2011 ACELS is part of Quality and Qualifications Ireland (QQI). QQI-ACELS runs an inspection scheme, which leads to school recognition by the Department of Education and Skills.



Digital Marketing Institute (DMI): The DMI is the global certification standard in digital marketing and selling. They have certified more professionals to a single, industry validated, digital marketing standard than anyone else in the world.

Services and facilities

Whether you need a quiet desk, C.V. advice or an IT lab, we have the services and spaces you need to improve your learning, productivity and collaboration.

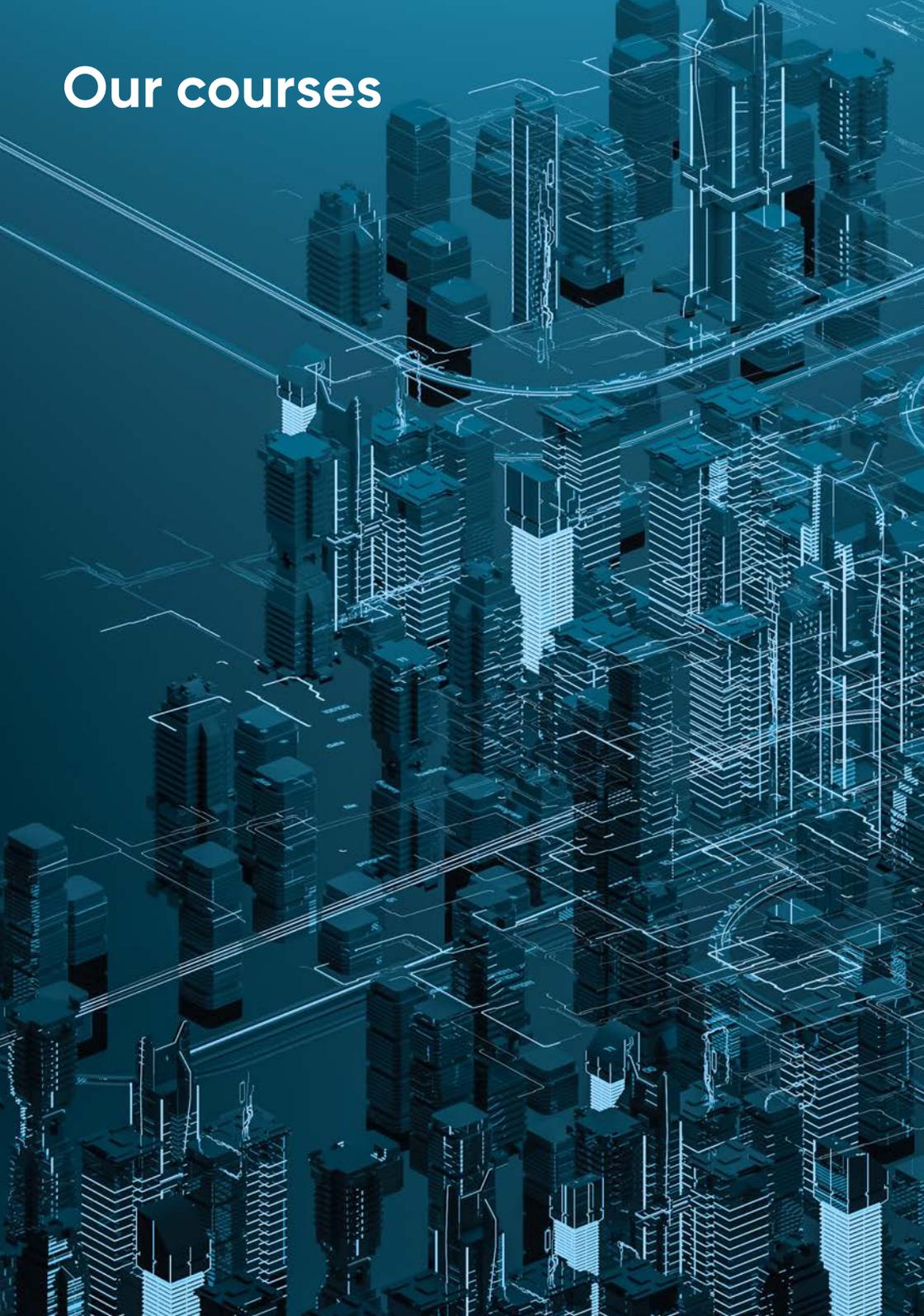
- On-campus library
- Free Wi-Fi
- Canteen
- Monthly social activities
- IT Lab
- Counselling
- Career workshops
- Study support
- C.V. consultations
- Accommodation

See our website for the full range of services available.





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Computer Programming Diploma

Code: CIBCPROG1
Duration: 11 weeks, one evening per week
Delivery: Online, On-campus
Intakes: Spring, Summer, Autumn

Introduction to Programming

This introductory-level computer programming course is designed for those with little or no previous experience in the area. It provides learners, regardless of their background, to feel justifiably confident in their ability to write code and is ideal for any learner with an interest and motivation to embark in a career in software development.

Students will learn the fundamental concepts and terminology of software development and develop skills in designing and writing computer programs. Start with the basics and go on to write your own programs and integrate input and output, calculations, decision making, and loops.

Course structure

- Introduction to Computer Programming
- Set Up Java Installations
- Run Your First Programme
- Learn About Primitive Data Types
- Introduction to creating classes and objects, attributes and methods
- Introduction to data variables, data input and writing a programme
- Using Java for Decision-Making Process
- Java Looping Structures and Enumerated Data Types
- Handling Exceptions in Java
- Class Methods and Debugging Process
- Introduction to GUI Programming
- Basics of OOPS Concepts Inheritance, Overriding, Polymorphism
- Overview of the Java SE7 Certification

You will be required to successfully complete a web project worth 100% of the grade.

Career opportunities

Computer Programming is often the first port of call for anyone looking to move into a full-time role in software development. This course will serve as an excellent and comprehensive introductory foundation in programming and will help to secure entry-level positions across the IT sector for roles including but not limited to software testing and junior developer.

Enrol on this course



Entry requirements

Basic to moderate understanding of windows and using a PC is required for this course.

Lecturer profile: Brian Rodgers

Brian is a software developer and software development trainer with over 20 years' experience with extensive knowledge over a large portfolio of software development platforms and tools including being a Java Developer, Software Architect and Designer, and a Trainer in Net(C# and VB.Net), C/ C++, SQL, Oracle, MySQL, Python, Web Development , HTML/CSS/JavaScript, PHP, Ruby, MS Access Database.

"This course gave me brand new skills in Java, in a relatively short space of time. It opened up new doors to learning other programming languages."

Zhivko Stankov
Graduate

Computer Programming Diploma

Code: CIBACPROG2
Duration: 11 weeks,
one evening per week
Delivery: Online,
On-campus
Intakes: Spring,
Summer, Autumn

Advanced Java

This course is designed for those who are already familiar with the Java language basics and topics. This course covers advanced topics including JavaBeans, Servlet Programming, Java Database Connectivity, Remote Method Invocation, and JavaFX. Other major topics include Network Programming, Serialization, Properties, Security, the Collection Classes and Architectures. You may be asked to complete a test in order to ascertain your level of knowledge and skills.

Course structure

- Files and Streams
- Collections
- Generic Collections
- Java SE 8 Lambdas and Streams
- Generic Classes and Methods
- Concurrency/Multithreading
- Networking
- Accessing Databases with JDBC
- Web Applications 1
- Web Applications 2
- AX-WS Web Services

You will be required to successfully complete a web project worth 100% of the grade.

Career opportunities

This course will prepare students for the Java SE 7 Fundamentals Certification exam by Oracle, which is the required first step towards Java Professional Certification.

Entry requirements

If you currently have experience in Java or an equivalent qualification you are eligible for the course. Students are expected to have a firm grasp of programming concepts such as loops, functions, and data structures, including a cursory knowledge of object-oriented programming concepts.



Enrol on this course

Lecturer profile: Brian Rodgers

Brian is a software developer and software development trainer with over 20 years' experience with extensive knowledge over a large portfolio of software development platforms and tools including being a Java Developer, Software Architect and Designer, and a Trainer in Net(C# and VB.Net), C/C++, SQL, Oracle, MySQL, Python, Web Development , HTML/CSS/JavaScript, PHP, Ruby, MS Access Database.

"A well structured course, good teacher, helpful staff and good materials."

Rehab Alquarashi
Graduate

Visual C# Programming Diploma

Code: CIBDVCVS1P
Duration: 11 weeks,
one evening per week
Delivery: Online,
On-campus
Intakes: Spring,
Summer, Autumn

with .NET Visual Studio

The course is intended for those new to software development and wanting to understand programming fundamentals and object-oriented concepts. Microsoft Visual C# programs run on the .NET runtime. By making use of the .NET framework library and other third-party libraries, Visual C# developers can build modern console, desktop, web and mobile applications. The Microsoft Visual C# programming language is also similar to Java with its foundations in the C and C++ languages, so if you already know C, C++, or Java, then C# will be easy to grasp.

Course structure

- Getting Started with the .NET Framework
- C# Fundamentals
- C# Programming Language Syntax
- Classes, Structs, Interfaces and Inheritance
- Object-Oriented Programming
- Working with Interfaces
- Using Language Integrated Query (LINQ)

You will be required to successfully complete an in-class project worth 100% of the grade.

Career opportunities

Increasingly businesses are turning to C# because of its diversity and rapid application development capacities. Another area with a growing demand for C# developers is the gaming industry. This course will position you to work within a business or web design company that has a requirement to develop and maintain secure core business and mission critical systems for multiple channels and devices.

Entry requirements

This course has been designed for developers who have previous programming or web development knowledge. Students who have completed the Computer Programming diploma or Front End Web Development diploma are also eligible.

Enrol on this course



Lecturer profile: Brian Rodgers

Brian is a software developer and software development trainer with over 20 years' experience with extensive knowledge over a large portfolio of software development platforms and tools including being a Java Developer, Software Architect and Designer, and a Trainer in Net(C# and VB.Net), C/ C++, SQL, Oracle, MySQL, Python, Web Development , HTML/CSS/JavaScript, PHP, Ruby, MS Access Database.

"This course was a great introduction to the industry and the practical was well incorporated into the theory."

Jean Silva
Graduate

Python Programming Diploma

Code: IPIOPP1

Duration: 11 weeks,
one evening per week

Delivery: Online,
On-campus

Intakes: Spring,
Summer, Autumn

This introductory-level course is designed for those with little or no previous experience in the area. It helps learners, regardless of their background, to feel confident in their ability to write code. You'll go from a beginner with no prior experience to having a solid understanding of the Python language.

You'll begin by completing basic exercises that focus on the core concepts. As you progress, you'll use variables to store, retrieve and calculate information. Then move conditional execution, iteration and other functions, lists, list processing, objects custom types and, handling exceptions.

With over 12,000 vacancies across the Irish technology industry, Python programming ranked 6th among the most 'in demand' skills.

Course outcome

- A fundamental understanding of programming and the different techniques and languages
- A firm base in procedural programming using Python
- A fundamental understanding of Python Object Orientated Programming
- Practical knowledge on how to import, manipulate and save data to CSV files
- A sound knowledge of the major libraries used for data analysis (NumPy, Pandas, Matplotlib, Seaborn)
- Ability to use relevant tools to output data in tabular and graphical format
- Recognise the power of Jupyter Notebooks to carry out, report and demonstrate sophisticated and complex data analysis



Enrol on this course



Academic progression opportunities

Students who complete the Diploma and are interested in furthering their study in the area of programming are eligible to progress onto the more Advanced Diploma in Computer Programming (Advanced Java) or Mobile App Development.

Career opportunities

Developers with Python skills are in high demand given the speediness with which Python programme can be developed. Reducing project time has a positive benefit to all development projects. Data scientists and analysts also embrace Python as a language. It has an extensive set of libraries and APIs for data analysis and visualisation.

Entry requirements

This course is aimed at beginner programmers. No previous knowledge of programming is required. To ensure sufficient digital literacy students should be familiar with the core applications such as word-processing, and spreadsheets, at ECDL level or equivalent.

Lecturer profile: Morgan

Morgan currently teaches on a number of programming courses in both DCU and IBAT college which include a number of development languages such as JavaScript, PHP and Python.

Web Design Diploma

Code: CFTDWD1

Duration: 11 weeks,
one evening per week

Delivery: Online,
On-campus

Intakes: Spring,
Summer, Autumn

This course starts with the basics, using HTML code to build a site, giving you a solid foundation in how a website is designed. The course then moves you into how to use a HTML editor for code, markup and prose. The final section introduces you to GIMP – GNU Image Manipulation Program. Learning this tool allows you to manipulate images to make them suitable for online platforms.

Course structure

- HTML5
- Bootstrap Front-End Framework
- Design, Construct and Maintain Web Pages and a Website
- Support the Building, Testing and Refining of Web Pages and Sites
- Elements of Web Design
- Sublime Text Editor
- GNU Image Manipulation Program (GIMP)
- Bootstrap Front-End Framework
- Good Site Management
- FTP
- Search Engines and Meta Tag

You will be required to successfully complete a web project worth 100% of the grade.

Career opportunities

In addition to providing a solid foundation in professional web design, this Diploma Course will equip graduates with career-boosting skills for pursuing opportunities in areas such as the following: In addition to providing a solid foundation in professional web design, this Diploma Course will equip graduates with career-boosting skills for pursuing opportunities in areas such as the following:

- UI/UX design
- Web content creation
- Digital, email and social media marketing
- e-Commerce and Search Engine Optimisation (SEO)
- Front-end software development



Enrol on this course

Entry requirements

The programme is ideally suited if you are just starting to work in the area of web design, or would like to do so. No prior academic qualification or professional experience in web design is required.

Lecturer profile: Brendan Munnelly

Brendan has developed high SEO-performing websites that serve three million page views annually and typically rank 96%+ for user experience on Google PageSpeed Insights. His educational IT books have sold over 100,000 copies in five languages and earned multiple five-star Amazon reviews.

"This course gave me a good understanding of using HTML which hugely helped when setting up my own blog."

Aisling Ni Cheallaigh
Graduate

Front End Web Development Diploma

Code: CADWEB2E

Duration: 11 weeks,
one evening per week

Delivery: Online,
On-campus

Intakes: Spring,
Summer, Autumn

This course has been specifically designed for aspiring or existing web developers who wish to expand their knowledge of web development. The main objective is to upskill to the latest techniques in JavaScript, JavaScript frameworks, layout, tooling (Git, Node) and cloud deployments.

During the course you will be taken from the initial development of a website product listing and booking platform that is using a CSS grid system. The main objective is to upskill your existing skills as a web developer to a more advanced level. It includes Client-Side JavaScript programming for the web and a solid foundation in HTML and CSS code.

Course structure

- Javascript Basics 1 (Variables, Arrays, Loops)
- CSS Review
- Javascript Basics 2 (HTML 5, Local Storage, Functions)
- Bootstrap CSS
- JQuery 1 (JSON, Ajax)
- JQuery 2 (Git)
- Class Project 1 (JSON, Ajax, Bootstrap)
- Heroku
- Angular 1 (Javascript Development Tools: Node, Grunt, SASS)
- Angular 2 (Firebase)
- Angular 3

Dynamic assessment is conducted weekly based on relevant topics.

Career opportunities

- Mobile App Developer
- IT Agency Support
- Web Developer – Mobile focus

Entry requirements

The course assumes a basic level of knowledge of website development equivalent to our Web Design Diploma. It is not suitable for a beginner web developer, students should be able to demonstrate a proficient knowledge of development.



Enrol on this course

Lecturer profile: John Rowley

John's career spans web development (LAMP), web manager and corporate spokesman (Ryanair), 11 years in software management and development (Symantec, Corel), technical training (PHP, Perl, XML, C#, CSS Javascript, MySQL), technical writing (C++, Java), news journalism and documentation management. He was the first PHP developer in Ireland to achieve Zend PHP certification and the first technical writer in Ireland to document C++ compiler and application frameworks.

"This course got me up to speed with some of the latest technologies and has given me the confidence to go for a new job in this area."

David Monahan
Graduate

Mobile App Development Diploma

Code: CMAPPDEV1
Duration: 11 weeks, one evening per week
Delivery: Online, On-campus
Intakes: Spring, Summer, Autumn

The programme will focus on supporting you, as a developer, to build mobile web apps which will work across multiple platforms including Android, iOS, and others. The course's technical focus will facilitate you to develop expertise in designing, developing, and testing software solutions for mobile platforms. You'll understand what it takes to build professional apps for mobile devices while gaining experience in using tools such as Objective-C Interface Builder for Apple, Java and Eclipse for Android, combined with SDK and 3rd party libraries such as PhoneGap and jQuery Mobile.

You are encouraged to bring your own Mobile App idea to the programme, and this can be developed and deployed over the duration of the course.

Course structure

- Introduction to Mobile Technology
- Introduction to Hybrid Apps
- Introduction to Progressive Web Apps
- Installing and Tooling up Javascript and Node.js
- Fast Track
- Introduction to Angular 2
- Working with Ionic 2
- Mini Project 1
- Working with Json
- Mini Project 2
- Working with JWT Tokens (Auth)
- Storing Data in Cloud – Firebase
- Working with Android Studio
- Mini Project 3
- Publishing your App to Google Store

Career opportunities

- Mobile App Developer
- IT Agency Support
- Web Developer – Mobile Focus

Entry requirements

This course is suitable if you already have experience of front-end web development and a minimum of 1 year programming experience, and would like to expand your knowledge into the area of mobile development. If you have experience in web design, or equivalent, you may be eligible for the course.



Enrol on this course

Lecturer profile: John Rowley

John's career spans web development (LAMP), web manager and corporate spokesman (Ryanair), 11 years in software management and development (Symantec, Corel), technical training (PHP, Perl, XML, C#, CSS Javascript, MySQL), technical writing (C++, Java), news journalism and documentation management. He was the first PHP developer in Ireland to achieve Zend PHP certification and the first technical writer in Ireland to document C++ compiler and application frameworks.

"The workshops were 'realworld' which was much more interesting, but it did mean getting in fairly deep from the get-go."

Raymond Black
Graduate

Desktop Publishing Diploma

Code: CDIPDTP1F
Duration: 11 weeks,
one evening per week
Delivery: Online,
On-campus
Intakes: Spring,
Summer, Autumn

This programme will be of interest to you if you are an existing desktop publisher/graphic designer, are a beginner looking to gain skills in the Adobe suite of applications (Adobe InDesign, Adobe Illustrator, Adobe Photoshop and Adobe Acrobat), or are seeking to upskill your career into the following creative areas, desktop publishing, graphic design, advertising, marketing, online digital publishing.

The knowledge gained will bring your skills up to industry-level standards in the area of graphics and design. It will provide you with additional skill to aid you in your marketing career, and the kind of knowledge that would be an important asset in the printing and publishing sectors.

Course structure

The course consists of four modules which cover the four main applications:

- **Adobe InDesign** – Used to design and layout publications such as brochures, magazines and posters.
- **Adobe Illustrator** – A vector graphics editor and is used for illustration design for logos, graphics and simple layouts.
- **Adobe Photoshop** – A graphics editing programme that is used to edit, retouch and prepare images for publishing on the Web and in print.
- **Adobe Acrobat** – An editor that can view, create and manipulate Portable Document Formats (PDF).

During the programme, there is a strong emphasis on the importance of a clear understanding of the print industry so that you not only know how to use the applications but also fully understand how to send the files to print. The course also examines the design, colour and layout of documents/images for print.

You will have to successfully complete coursework to be awarded the diploma.

Career opportunities

- Graduate Graphic Designer
- Desktop Publisher
- Freelance Designer
- Marketing Communications

Enrol on this course



Lecturer profile: Anthony O'Flynn

Anthony has extensive teaching experience specialising in graphics design. He also works freelance and has been involved in various television projects for RTÉ, independent production companies and advertising agencies.

He has worked on projects with private clients including New Ireland Assurance, IBEC and Bacardi, including editing and designing of opening and incidental graphics, working with composers and commissioning music for sequences, typographic design and animation.

"I've gained enough knowledge and experience from this course to allow me set up my own online business."

Stephen Paterson
Graduate

Predictive Data Analytics Diploma

Code: CDIPPDA1P

Duration: 11 weeks,
one evening per week

Delivery: Online,
On-campus

Intakes: Spring,
Summer, Autumn

This course will introduce you to many of the popular advanced statistical techniques used in the field of marketing and financial predictive analytics. You will learn the multivariate techniques used to transform information from large data-sets into actionable insights. You will gain hands-on experience using RapidMiner – software platform for data preparation and predictive model generation – and prepare to be a part of this growing field.

You will also be introduced to both 'big' and 'small' data; learn how to manipulate, analyse and interpret it in sophisticated ways; and realise how to present this in a persuasive and influential manner. It will teach you how to identify situations in which predictive analytics can add value by better meeting customer needs, through the smarter allocation of marketing budgets and by improving financial decisions.

Course structure

- Business Intelligence and Data
- Power BI
- Data Mining
- SQL
- Types of Analytics
- Python/Jupyter

RapidMiner

- Data Preparation
- Modelling and Performance
- Modelling: Decision Trees
- Modelling: Knn, Confusion Matrix
- Modelling: K Means clustering, Association rules
- Text/Sentiment Analysis

You will be required to successfully complete project work worth 100% of the grade. The work will be based on real-world case studies.

Career opportunities

According to Brian Mooney (Irish Times, 7 March 2017) 'data analytics was the fastest-growing skill in demand in 2015 and demand is set to continue in the years ahead.' Data analysts are in demand in industries as diverse as: pharmaceuticals, marketing, finance and insurance, as well as cloud computing.

Enrol on this course



Prospective employers include any company that requires detailed, robust analysis of data sets; examples include:

- ICT companies (e.g. Google, eBay, Facebook, Amazon, Paddy Power),
- The pharmaceutical industry (e.g. Jansen, Merck, GSK),
- The financial services industry (e.g. Bank of Ireland, AXA, EY, Accenture, Deloitte)

Entry requirements

This programme is suited for individuals with a variety of different experience levels, and while there is no academic requirement for entry, all applicants should demonstrate an interest in and an aptitude for data analytics. Basic computer literacy is a requirement with a digital literacy certificate or equivalent.

It should be noted that while this is not a statistics course, all the techniques are based on the theory of statistics and you will need to understand basic business statistical concepts, such as mean/average, standard deviation, normal distribution.

Lecturer profile: John Rowley

John's career spans web development (LAMP), web manager and corporate spokesman (Ryanair), 11 years in software management and development (Symantec, Corel), technical training (PHP, Perl, XML, C#, CSS Javascript, MySQL), technical writing (C++, Java), news journalism and documentation management. He was the first PHP developer in Ireland to achieve Zend PHP certification and the first technical writer in Ireland to document C++ compiler and application frameworks.

Software Quality Assurance Diploma

Code: IPI0QA1
Duration: 11 weeks, one evening per week
Delivery: Online, On-campus
Intakes: Spring, Summer, Autumn

Quality Assurance (QA) is one of the most important areas in the world of information systems development. Against this background, the software testing profession has evolved to ensure that during the system development, continuous work processes will be integrated that maintain stability and enable the evolving technology to function properly.

The work processes include planning according to structured methodologies, working according to work procedures and integrating testing tools and their application to work processes. It is important to implement these processes as part of an overall quality approach, as it ensures the survival and relevance of organizations in today's business environment.

Course structure

Introduction

- Knowledge of the Computing World
- Introduction to LINUX Operating System
- Communications and Networks
- Introduction to Information Systems

Manual QA

- Introduction to the World of Software Testing
- Introduction to Software Quality Assurance
- ALM and Software Testing
- Types of Testing
- Software Testing Documents – The Stages of the Software Testing Process and Its Products

- Adapting the Testing Methodology to the Development Methodology
- Introduction to Databases, Use of Assembly and Database Planning, SQL Query Writing
- Using the Microsoft MTM Software Testing Tool
- Web Testing
- Cyber and Software Testing
- Mobile Testing

Automation QA Master

- Object Oriented Programming and Java Language (Java Web & REST)
- Introduction to Testing Automation
- JUnit
- CI – Testing Automation with Jenkins

Enrol on this course



Career opportunities

Those who successfully complete the programme can explore related programmes in our Professional Diploma suite, or seek an industry position.

Entry requirements

This course is intended for those with no computing background who want to integrate as software testers in organisations. However, applicants should have a high level of technical literacy and evidence of willingness to integrate into the world of computing.

Ireland is the 2nd largest exporter of computer and IT services in the world, with over 97% of domestic production sold in international markets.

The sector accounts for over €50 billion of exports from Ireland each year.

CompTIA Security+ Diploma

Code: IPI0QA1
Duration: 11 weeks,
one evening per week
Delivery: Online,
On-campus
Intakes: Spring,
Summer, Autumn

This diploma gives you the foundational knowledge you'll need in a cybersecurity role and in many related roles across IT. You will work on detecting types of security compromises and developing responses to these, implementing secure architecture concepts and systems design thinking. The course addresses installation and configuration of identity and access management tools, as well as management controls. The overarching concept of risk management and best practices and the business impact of these are covered in the programme.



Many employers require tech professionals to acquire CompTIA Security+ before they can be considered for non-entry-level IT positions.

Course structure

Threats, Attacks, and Vulnerabilities

- Indicators of Compromise
- Critical Security Controls
- Security Posture Assessment Tools
- Incident Response

Identity and Access Management

- Cryptography
- Public Key Infrastructure
- Identification and Authentication
- Identity and Access Services
- Account Management

Enrol on this course



Architecture and Design 1

- Secure Network Design
- Firewalls and Load Balancers
- IDS and SIEM
- Secure Wireless Access
- Physical Security Controls

Architecture and Design 2

- Secure Protocols and Services
- Secure Remote Access
- Secure Systems Design
- Secure Mobile Device Services
- Secure Virtualization and Cloud Services

Risk Management

- Forensics
- Disaster Recovery and Resiliency
- Risk Management
- Secure Application Development
- Organizational Security

Career opportunities

Those who successfully complete the programme can sit the CompTIA Security+ SYO-501 exam. It certifies that you have the skills required to install and configure systems to secure applications, networks, and devices; perform threat analysis and respond with appropriate mitigation techniques; participate in risk mitigation activities; and operate with an awareness of applicable laws, and regulations.

Entry requirements

Applicants should have completed the CompTIA Network+ (or equivalent certification, or experience in networking) and have two years of experience in IT administration with a security focus.

Cyber and Digital Security Diploma

Code: CIBDCDS1P
Duration: 11 weeks, one evening per week
Delivery: Online, On-campus
Intakes: Spring, Summer, Autumn

This diploma examines how the internet has grown as a global phenomenon over the past twenty years, bringing with it the threat of crime in a variety of forms. Decision makers must be familiar with the basic principles and best practices of cyber security to best protect their enterprises, and digital assets. The programme will discuss the laws that are in use to try and regulate the internet and assess the various threats posed by internet crime in its many varieties.

This course is suitable if you wish to obtain a broad understanding of cyber security. An engineering or computing background is not required.

Course structure

- Introduction to Information Security Fundamentals and Best Practices
- Protecting Your Computer and Its Contents
- Securing Computer Networks – Basics of Computer Networking Theory
- Ethics in Cyber Security and Cyber Law
- Secure Communications and Information Security Best Practices
- Privacy Guidelines and Safe Internet Usage
- Intellectual Property
- Professional Ethics
- Internet Fraud
- Cybercrimes
- Secure Software and Browser Security
- Cookies and Browser Storage

- Managing a Business Information Continuity Plan
- Vulnerabilities and Controls
- Information Risk Management
- Risk Response Development and Control
- Security Policy, Compliance, and Business Continuity
- Cyber Incident Analysis and Response

Career opportunities

- ICT Cyber Security Analyst
- Cyber Security Team Member/Lead
- Advisory Consultant – Cyber Security
- Cyber Security Analyst
- Cyber Security Engineer
- Cyber Security Manager



Enrol on this course

Entry requirements

This course has been developed for those with little or no prior cyber and digital security experience, but a desire to understand appropriate approaches for risk management and best practices in relation to cyber and digital security. An engineering or computing background is not required to benefit from this course.

Lecturer profile: Liam O'Connor

Liam is an experienced risk manager with a demonstrated history of 20 years working in the IT and cyber security industry. He has worked across the globe from the UK, Central Africa and Canada on cyber security projects. He is currently working within one of the big 4 company's in cyber security. Liam is a skilled cyber security strategist and has worked on many projects across both the public and private sectors. Some of these projects included Data Protection (GDPR, ePrivacy), Computer Forensics, eDiscovery, Identity Access Management and Pentesting to name a few. He has an incredible passion for all things cyber, a must have in an ever changing digital landscape.

Introduction to Computer Hacking Diploma

Code: IPI0CS3
Duration: 11 weeks, one evening per week
Delivery: Online, On-campus
Intakes: Spring, Summer, Autumn

This course provides a framework for practical analysis of various network protocols using the Wireshark software. It will examine different cyber-attacks, describe how encryptions function, and cover password and OS cracking. In addition-in depth analysis of traffic patterns will facilitate a distinct understanding of normal network traffic and abnormal problematic traffic as well as well-known attack signatures.

Learn from friendly and highly qualified academic staff, with industry experience, in small class-sizes, and guest lecturers who are experts in their fields.



Course structure

- Encryption, Algorithms and Hashes
- Windows and Linux Password Storage and Encryption
- Using Wireshark for Traffic Interception and Analysis
- Man-In-The-Middle (MITM) Attack
- Password Cracking Techniques and Tools
- Creating Combinator Lists for Password Cracking
- OS Hacking
- WiFi Hacking

Course outcome

- Understand basic cyber concepts
- Acquire hands on experience with various popular tools and methods
- Define various cyber attacks
- Understand the hashing concept
- Understand key elements in penetration testing

Enrol on this course



Career opportunities

Those who successfully complete the programme can explore related programmes in our Professional Diploma suite, or seek an industry position.

Entry requirements

This course is very much applied in nature and intended for those with a strong IT admin background. Firm knowledge and understanding in computer network & protocols is required, as is previous working experience (at least 1 year) in any computer network & protocols, System-Administration or Cyber security.

Introduction to Computer Networks Diploma

Code: IPI0NET1

Duration: 11 weeks,
one evening per week

Delivery: Online,
On-campus

Intakes: Spring,
Summer, Autumn

The main goal of this programme is to provide students with a comprehensive understanding of network technologies, concepts, and terminology. This course is an introduction to the structure, components, functions, and services of computer networks, including current protocols, technologies, and performance issues.

You will study the technologies used in LANs, network topologies, and network designing with these topologies. A variety of network equipment will be discussed (including hubs, routers, and switches), all major LAN protocols will be covered (including TCP/IP). You will learn about the OSI layered communications model and will understand the daily tasks involved with managing and troubleshooting a network.

Course structure

- Introduction to Networking
- OSI Model
- Protocols
- Network Appliances
- Network Sniffers & Analysis
- Wireshark Software

Course outcome

- Define the purpose of network analysis
- Define various protocol settings
- Analyse routed and wireless networks
- Define the purpose of Wireshark
- Describe how Wireshark processes packets

Career opportunities

Those who successfully complete the programme can explore related programmes in our Professional Diploma suite, or seek an industry position.

Entry requirements

This course is intended for those with no computing background who want to integrate into the high-tech industry. However, applicants should have a high level of technical literacy and evidence of willingness to integrate into the world of computing.

Enrol on
this course



Data Analysis and Visualisation Using Tableau Diploma

Code: IPI0DA01

Duration: 11 weeks,
one evening per week

Delivery: Online,
On-campus

Intakes: Spring,
Summer, Autumn

The sheer volume of digital data in the world today is astounding. A problem is that the sheer scale of the growth of this data makes it difficult to analyse using traditional tools. This is answered by an explosion in various data analytics tools translating data into insight.

Tableau is a powerful data visualization tool used in the business Intelligence industry. Tableau empowers people in organisations to ask questions of their data and answer them visually. Extracting value from the data can be done in real-time, leading to more timely decision-making. Hidden patterns can emerge when data sets are blended and combined for analysis.

You will learn the core concepts and techniques in Tableau for analysing and visualising data. You'll work with dashboards, carry out various forms of data analysis and present them visually. You don't need technical background to do this, and the programme does not require programming skills.



Course structure

- Introduction
- Tableau and Data
- Data Visualisations 1
- Dashboards
- Analytics Concepts 1
- Databases and Data Connections
- Data Visualisations 2
- Analytics Concepts 2
- Data Visualisations – Mapping
- Analytics and Visualisations Together

Enrol on this course



Career opportunities

Graduates can work in data insights teams, applying data analytics tools and visualisation techniques to address business problems and develop and present data insights. Roles include data scientist, business intelligence (BI) analyst, data visualisation specialist, Tableau professional and more.

Entry requirements

This course is intended for anyone with an interest in working with quantitative data. A specific technical or analytical background is not needed, but you are expected to have digital literacy to navigate through Tableau.

Lecturer profile: Conor Fingleton

Conor Fingleton is a Chartered Engineer with over 8 years' experience working in data analytics consulting. He has 7 years' experience working with Deloitte and has worked with clients including Revenue Commissioners, Bank of Ireland, AIB, HCL, Pfizer and Lifestyle Sports. He specialises in BI development and has extensive knowledge of Tableau and Alteryx.

Cloud Computing Diploma

Essentials for Business

Code: IPI0CC1

Duration: 11 weeks,
one evening per week

Delivery: Online,
On-campus

Intakes: Spring,
Summer, Autumn

You will learn the principles and features of cloud computing, and what it can do for your business. This course looks at the role IT plays in typical organisations, and where cloud computing fits into this. The Cloud Economics topic is of particular importance to businesses as they need to ensure that it is financially feasible. Similarly, security, privacy and compliance concepts are addressed reflecting the need for all users in a business to have a solid understanding of what is needed in this regard. Cloud vendors and their various cloud offerings are featured in the programme with particular emphasis on Amazon as a cloud vendor.

Throughout the programme, we will study case examples of organisations who have adopted cloud and business benefits that resulted.

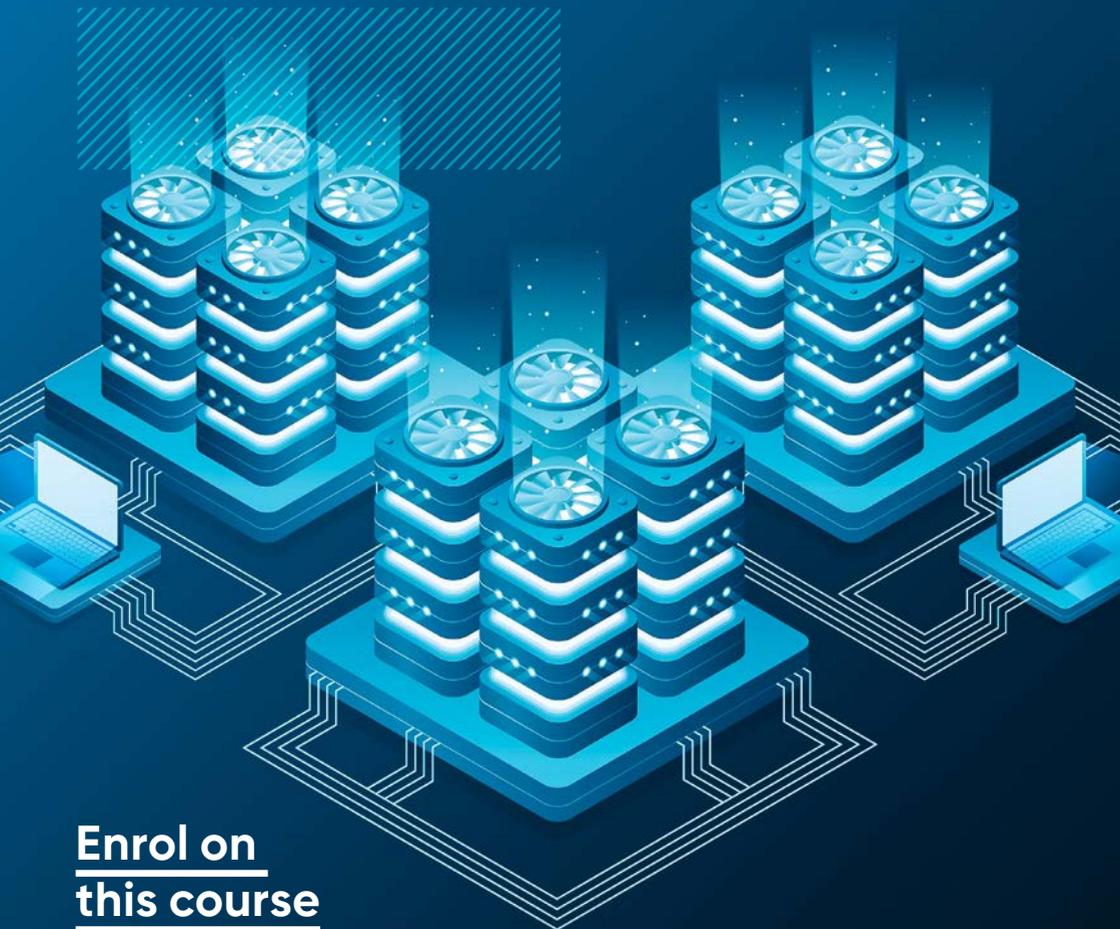
Industry analysts expect a 40% annual growth in cloud computing in Ireland over the next few years. The IT industry has an acute shortage of more than 1.7m cloud jobs worldwide due to the shortage of talent.

Great Learning

Course structure

- IT in Organisations
- The Cloud Service Stack
- Cloud Deployment Options
- Vendor Offerings
- Cloud Contracts
- Cloud Planning and Management
- Security
- Privacy
- Cloud Economics
- Case Studies

The programme is assessed through a combination of coursework (50%) and end-of-term exam (50%). You can also continue to AWS Cloud Practitioner Certification.



Enrol on this course

Career opportunities

Graduates should be able to contribute to cloud computing adoption in their organisation, informing decision-making and advising on cloud computing features, benefits and downsides.

Entry requirements

This programme is intended for IT business decision makers or staff who want to build their knowledge of cloud computing. An interest in the role of technology in businesses is a requirement.

Cloud Computing Diploma

Code: IPI0CC2
Duration: 11 weeks, one evening per week
Delivery: Online, On-campus
Intakes: Spring, Summer, Autumn

Technical Practitioner Essentials

You will learn the technical essentials of cloud computing through learning about Amazon Web Services (AWS) products, services and solutions. The course offers a basic but comprehensive coverage of the AWS technologies and concepts so that IT decision-makers can make informed decisions about IT solutions for their business requirements.

You will study the AWS management console and acquire a technical appreciation of what AWS has to offer. This programme is designed to train participants on various AWS products, services, and solutions. The course is prepared in line with the latest AWS syllabus will help you become proficient in identifying and efficiently using AWS services.

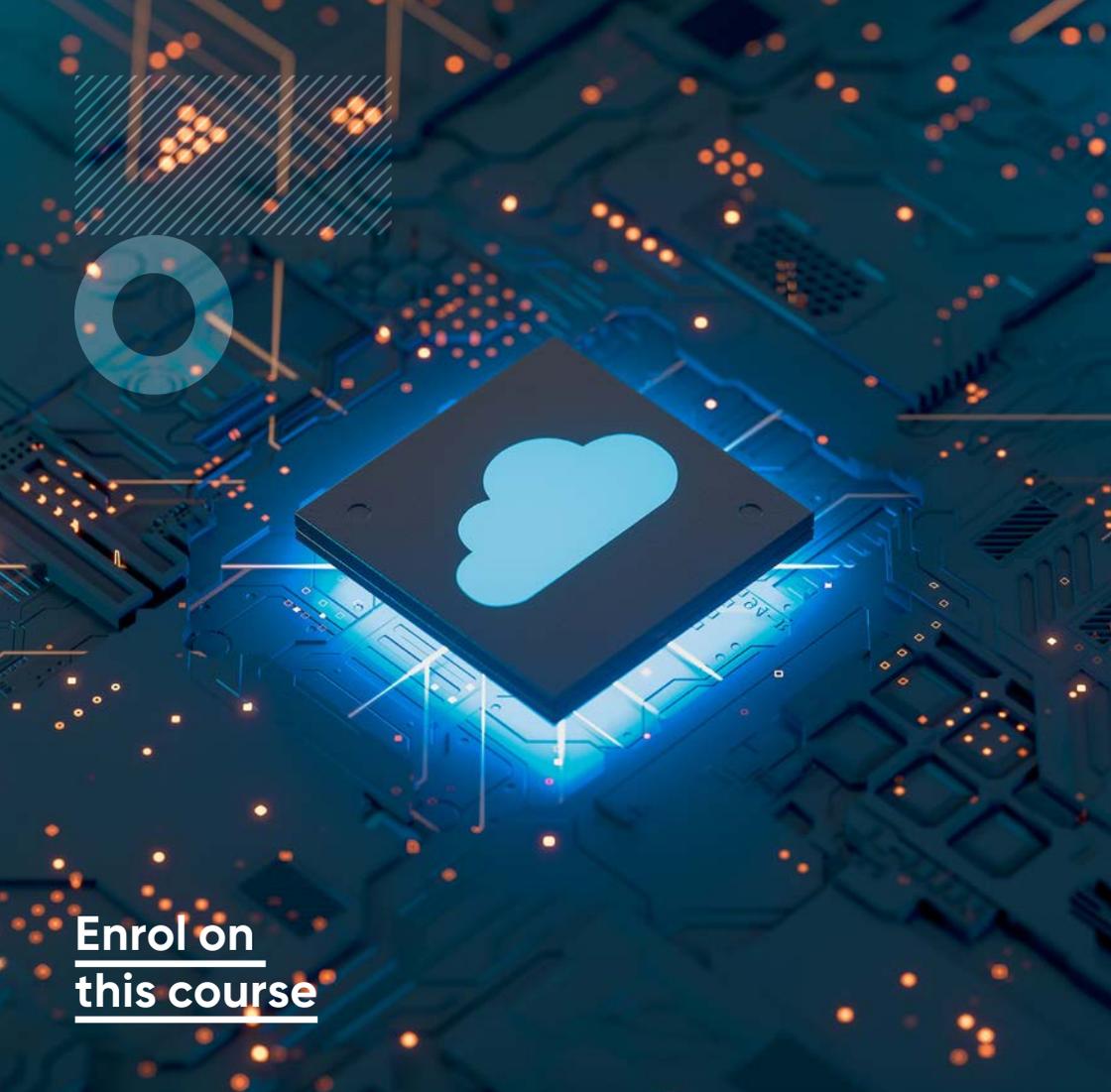
Figures from IDC show that by 2020, the Irish cloud market will be worth €468m – up from €172m in 2015.



Course structure

- Introduction to Cloud Computing
- Introduction to AWS
- Cloud Storage
- Compute Services and Networking
- AWS Managed Services and Databases
- Cloud Deployment and Management
- Cloud Security

The programme is assessed through a combination of coursework (50%) and end-of-term exam (50%). You can also continue to AWS Cloud Practitioner Certification.



Enrol on this course

Career opportunities

Those who successfully complete the programme should consider the taking the AWS Certified Exam (Cloud Practitioner).

Entry requirements

Learners should have a strong interest in IT and its deployment in business. An existing knowledge of cloud computing is helpful but not essential.

How to apply

Apply online, over the phone or in person.

Need help or more information?

Course advisors are available to answer any questions or take you through the application process:

✉ enquiry@ibat.ie

☎ +353 1 8075 055

📍 Wellington Quay Campus
16-19 Wellington Quay,
Dublin 2, Ireland

Flexible payment plans and corporate sponsorship packages are available. Ask our course advisors for more information.



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