HIBERNIA
COLLEGE

EST.MM

Postgraduate Diploma in Science in

Business Data Analytics

This information refers to our Autumn 2022 intake. It will be updated for any future intakes. If you would like to be notified, please enter your details and we will contact you when we have further information.

About Us

Hibernia College has extensive experience in the delivery of professional education programmes that are both validated by Quality and Qualifications Ireland (QQI) and professionally accredited, where appropriate. Additionally, as a leader in the delivery of blended learning programmes, the College is particularly well positioned to respond to the needs of students who require a flexible approach to learning. The College is now extending its flexible model, which has been so successful in teacher education, to develop a cadre of data analytics professionals.

Hibernia College is a leading higher education institution (HEI) with a track record for innovative use of technology in education. Fundamental to the College's strategy is a focus on the highest standards of professional learning and teaching.

The Programme

The Postgraduate Diploma in Science in Business Data Analytics is designed to meet a skills shortage of data analysts and related occupations, both here in Ireland and internationally. This programme will be offered as a 60-credit, NFQ Level 9 blended learning programme where students will engage in a variety of face-to-face and online environments.

The programme is underpinned by three pillars of knowledge: business analytics, technology and data science. The field of data analytics is intersected by these knowledge domains and the programme design reflects this.

1	2	3
Business Analytics	Technology	Data Science

The programme also includes a work placement or work-based project elective that allows learners to synthesise the knowledge, skills and know-how they developed in the earlier modules. The aim is to prepare a talented, highly qualified cohort of work-ready graduates through the deployment of a carefully crafted range of targeted academic and industry-focused activities.

The central aim of this programme is to ensure that our graduates demonstrate a critical understanding of the increasingly impactful role played by analytics across a wide range of sectors within a modern economy.

In business data analytics, conveying results is equally important to the results themselves. This programme empowers students with professional presentation skills and the ability to communicate with various stakeholders and use feedback constructively.

AnalyticsInstitute
PROBLEMS WORTH SOLVING

Hibernia College and the Analytics Institute, Ireland's professional membership organisation supporting the data science and analytics industry, have partnered to create this programme. The Analytics Institute will coordinate placements and projects with member organisations. Graduates will also earn a professional certificate from the Analytics Institute.

Entry Requirements

Students on this programme will originate from directly cognate disciplines including computer science, mathematics, statistics, engineering and technology. Applicants from partially cognate disciplines such as finance, accounting, business, etc. may be accepted, as determined by the Programme Director following a review of the content of the course presented.

Applicants must hold a minimum grade of Lower Second-Class Honours (2.2), or equivalent, in a bachelor's degree at NFQ Level 8.

English Language Proficiency

An applicant whose first language/primary mode of expression is not English will be required to produce evidence of English competence. The required proficiency level is B2+ or higher in the Common European Framework of Reference for Languages (CEFR).

Mathematical Proficiency

This programme requires students to have good numerical and statistical skills. As candidates can come from a diverse range of disciplines, essential foundational mathematics and statistics concepts will be introduced in the two-week orientation programme.

Should they require them, students will also be provided with online learning resources in mathematics or programming after they complete the orientation programme.

Semester 1

BDA102

Understanding Data

10 Credits
12 Weeks

BDA101

Software Development for Business Data Analytics

5 Credits | 4 Weeks

BDA103

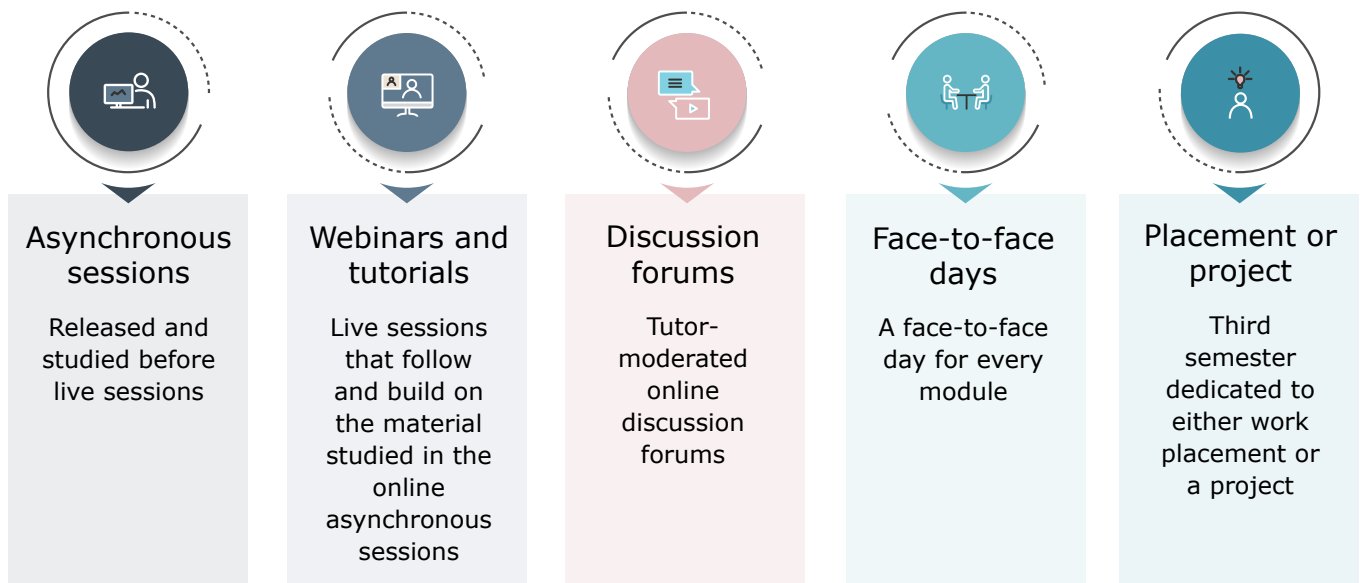Applied Probability Modelling

10 Credits | 8 Weeks

Semester 2

BDA105

Data Mining & Machine Learning

10 Credits
12 Weeks

BDA104

Statistical Data Analysis & Inference

5 Credits
4 Weeks

BDA106

Applied Business Analytics

5 Credits
8 Weeks

BDA107

Effecting Successful Projects

5 Credits
12 Weeks

Semester 3

BDA108A

Placement

10 Credits
12 Weeks

or

BDA108B

Project

10 Credits
12 Weeks

Programme Learning Environment

The modules are delivered through a flexible, blended learning approach that combines online and face-to-face elements.

Asynchronous sessions	Webinars and tutorials	Discussion forums	Face-to-face days	Placement or project
Released and studied before live sessions	Live sessions that follow and build on the material studied in the online asynchronous sessions	Tutor-moderated online discussion forums	A face-to-face day for every module	Third semester dedicated to either work placement or a project

The programme runs for three 12-week semesters between September and June. Live webinars, face-to-face tutorials and laboratory tasks will be scheduled in the evenings and on Saturdays. Students will meet each other and their lecturers/tutors face to face at a venue at least once during each module. Average weekly class time totals 10 hours.

There will also be additional on-demand learning where students will be required to complete additional readings, practical work and assignments. An estimate of the total weekly time requirement is 30 hours. Online asynchronous sessions can be studied in the students own time and include presentations, videos, tasks and collaborative activities. An extensive online library will be available to support students in their studies.

During the programme, they will create digital artefacts, code solutions to problems, create advanced data visualisations and produce technical reports.

Students will also complete a 12-week placement or project. Placement is organised for those who need industry experience, so those already working in the industry will undertake a project instead. The Analytics Institute will arrange placements for those who need them.

Graduates of the programme will have the essential skills, knowledge and know-how to fill a range of data analytics careers in a wide range of fields including finance, health, agriculture, tourism, entertainment and hospitality. Career opportunities include data analyst, data scientist, data architect, data engineer, big data management scientist, machine learning engineer, business intelligence analyst, business systems analyst, logistics analyst and marketing analyst.

Programme Learning Outcomes

On completion of the programme, students will be able to:

01 Demonstrate a critical understanding of the increasingly impactful role played by analytics across a wide range of sectors within a modern economy

02 Display mastery of essential analytics, technical and investigative skills, and demonstrate a capacity for self-improvement through learning new and more advanced skills of this nature

03 Identify and deploy a range of instruments to communicate with impact when presenting and explaining complex ideas and influencing different audiences, taking cognisance of their specific needs and requirements

04 Demonstrate a creative and imaginative skillset by analysing problems within a real-world or simulated setting and designing, testing, reflecting, reviewing and producing optimal solutions

05 Collaborate professionally within cross-functional, multi-discipline teams and provide advice and leadership where necessary and as appropriate to deliver impactful analytics output

06 Assimilate knowledge, ideas and concepts from related, complex analytics domains, in developing a wider and deeper understanding of the domain

07 Reflect on technologies, select optimal tools and apply analytics and related knowledge disciplines in the formulation and construction of solutions to complex problems

08 Improve personal performance through a combination of considered self-reflection and self-analysis and responding professionally to feedback and also having the capacity to deliver open and constructive feedback to others

09 Make and justify informed scientific-based decisions, paying particular regard to balancing creativity, logic and evidence while recognising and addressing other constraints

10 Demonstrate knowledge of relevant research methodologies and apply this knowledge ethically in tackling complex challenges relevant to the analytics domain

Key Points

Start Date: Autumn 2022

Duration: One academic year

Placement Option: 12 weeks in Semester 3

Accreditation: QQI

Fees: €7,000

A number of places on the programme will be supported by the Human Capital Initiative Pillar 1 fund. Eligible applicants will either receive a full waiver of fees or pay 10% of the programme fee. Details about eligibility criteria can be found here:

springboardcourses.ie/eligibility

Applicants who do not meet the eligibility criteria for full or 10% fee remission will also be considered for inclusion in the programme, provided they meet the academic criteria. Such applicants will pay the full programme fee.

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Contact Us Today

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Webinars
hiberniacollege.com/
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