



Certificate in Cloud Platform Development

Level 7, 40 ECTS

Programme Handbook

Foreword

Welcome to DBS where we will help you realise your ambition. We have an international reputation for delivering a high-quality student experience and our intention is to do everything we can do to support you during your time with us.

Dublin Business School (DBS) is Ireland's largest independently owned, third level institution. Our campus is in Dublin's city centre and comprises four buildings where nationalities from over 95 countries participate in a bustling and thriving student life.

We offer programmes across a range of disciplines from business to data science, cybersecurity to artificial intelligence, marketing to psychology, accounting and finance through law, film and creative media. We are committed to enabling strong academic outcomes through employer-led programmes and continuing to deliver an out-standing student experience.

This year coming contains many significant challenges for higher education providers due to the COVID-19 pandemic. At DBS we will meet this challenge head-on and draw on our experience of delivering high-quality teaching and learning through hybrid and multi-modal learning. Our utmost priority is the protection of your health and safety and DBS actively commits to government guidelines and protocols in order to ensure this. We will also do everything we can to maximise the opportunities for you to be on campus as much as possible and this will mean that some of your learning will be on campus and some will be online. You will find the specific details in your online timetable as well as in your Module and Assessment Guides.

The information contained in this handbook is crucial to your learning. It provides important information on your programme, your assessments and the key individuals you will meet. For these reasons we want you to constantly read and refer to this handbook and use it as a key information source during your time with us.

We are dedicated to ensuring that you have a rewarding and fulfilling experience while studying at DBS and intend that, through your programme of study, you begin to realise your ambitions and your career goals.

Good luck on your journey!

Kerry

Dr Kerry McCall Magan

Head of Academic Programmes

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Section 1 Programme Information

Welcome Message from Course Director

Hello and a very warm welcome to Dublin Business School. My name is David Williams, and I am the Course Director for your programme.

You have made the right choice on deciding to study at Dublin Business School. We are Ireland's largest independent third-level institution, offering a range of undergraduate, postgraduate, and professional programmes in ICT, Business, Arts and Law. Your choice to study cloud development will enhance your personal, academic, and professional development.

DBS has built on a reputation of "Excellence through Learning" and we pride ourselves on our ability to design and deliver programmes which are academically rigorous and innovative whilst ensuring they meet the demands of an ever-changing global business community. All faculty members are experienced tutors who are specialists in their chosen field. As well as being highly qualified academically, they also bring a wealth of industry experience to the classroom. Our tutors are actively engaged in consultancy and research and this feeds directly into your learning experience.

I look after the undergraduate programmes which include the BA (Hons) in Computing and the postgraduate programmes, the MSc in Data Analytics and the MSc in Artificial Intelligence. I work closely with your Programme Coordinator Mary Fenlon and your lecturers. Some examples of areas that I can assist with include:

- Academic planning and choices
- Navigating Moodle
- Assignments and Examinations
- Decisions around stream choices.

Your student portal is also a one stop shop for accessing your email, timetables and more. I would like to note the DBS email assigned to you. It is important that you correspond with DBS staff using this email only. We will send a number of important communications to this email during your studies. This information and more, is available in your Student Handbook, which can be accessed via students.dbs.ie/academic operations

It is appreciated that new students each have particular needs. This handbook is designed to provide you with much of the information you will require in the first few weeks of your programme of study. It will aid your study immensely if you familiarise yourself with the contents of this handbook and keep it somewhere safe. It is to be used in conjunction with the Module and Assessment Guides that you will also receive via Moodle. We hope you enjoy your time with us here in DBS and look forward to helping you during your learning journey. I am here to help you with the academic side of your programme from now until you graduate, and beyond.

Please do not hesitate to contact me on david.williams@dbs.ie if you have any questions.
Best wishes to you all for a great year!

David

David Williams
Course Director for Computing

1.1 Programme Administration

If you have any questions or concerns about any aspect of your course, or a problem relating to any aspect of your time here at DBS you should contact your Course Director or Programme Coordinator. If they cannot tackle the question or problem themselves, they can help you identify the person who can and they will refer you on to them. Below is short description of the people you will meet on your programme:

- **Course Director**
The Course Director has responsibility for ensuring academic quality and standards for learners (particularly in the areas of teaching, learning and assessment). They are the academic lead in the discipline area and are a key contact point for programme team liaison and co-operation. They work to ensure programmes contain high quality teaching and learning and are committed to enabling strong employer-aligned, academic outcomes.
- **Programme Coordinators**
Programme Coordinators provide administrative support on programmes and ensure all learners are provided with full details of their programme of study. They are the first point of contact for learners on a range of issues such as programme queries, deferrals, personal mitigating circumstances (PMCs) that may affect their learning.
- **Module Leader**
The Module Leader is the Lecturer responsible for the module. Their primary function is to lecture and assess learners on subjects or modules according to the programme document. Their duties and responsibilities relate to teaching, assessment and completion of the module. Module leaders work hard to ensure a high-quality teaching and learning experience for all students.

1.2 Main Points of Contact for the programme

	Name	E-mail
Programme Coordinator	Mary Fenlon	mary.fenlon@dbs.ie
Course Director	David Williams	david.williams@dbs.ie

1.3 Programme Team

In DBS, email addresses for lecturing staff are as follows: firstname.lastname@dbs.ie

This is an indicative list and is subject to change.

Module Title	Module Leader
Web Development 1	TBC
Web Development 2	TBC
Database Design and Cloud Technologies	TBC
Cloud Design and Development	TBC
Cloud Platform Development	TBC

There are also other valuable points of contact and support in DBS such as [Student Services](#), the [Student Engagement and Success Unit](#), [Student Welfare and Support](#), [IT Helpdesk](#) and the award winning [DBS Library](#). Your [DBS Handbook](#) and the [DBS website](#) will contain more information on these and other great DBS services and supports.

This year coming contains many significant challenges for higher education providers due to the COVID pandemic. At DBS we will meet this challenge head-on and draw on our experience of delivering high-quality teaching and learning through hybrid and multi-modal learning. Our utmost priority is the protection of your health and safety and DBS actively commits to government guidelines and protocols in order to ensure this. We will also do everything we can to maximise the opportunities for you to be on campus as much as possible and this will mean that some of your learning will be on campus and some will be online. You will find the specific details in your online timetable as well as in your Module and Assessment Guides.

Section 2 Programme Details

2.1 Aims of the Programme

This is an innovative programme with an integrated delivery from end-to-end covering a range of cloud platform development skills applicable to the ICT and other sectors. The programme aims to develop learners' knowledge of the theory and practice of web development, databases and cloud application design, development and deployment through Platform-as-a Service (PaaS) providers necessary for them to secure employment and perform in the area of cloud platform development in a broad range of commercial, industrial and public sector environments. Graduates will possess focused knowledge and specific practical skills in Cloud Platform Development.

The programme incorporates Personal & Professional Development (PPD) within modules to enhance the student's employability, which will enable them to integrate seamlessly into an organisation by addressing skills such as leadership, self-management and teamwork that are essential in the area of Cloud Platform Development.

The programme has been developed to ensure that participants are developing sustainable skills and knowledge that underpin Cloud Platform Development.

Specifically, the programme aims:

- To develop knowledge and practical skills in web development and databases;
- To appraise cloud platform environments and subsequently design, plan and implement cloud migration strategies;
- To evaluate, implement and deploy applications on cloud platforms.

2.2 Programme Learning Outcomes

The minimum intended programme learning outcomes are as follows:

MIPLO1	Evaluate a range of client and server-side web development technologies, which incorporate the use of databases.
MIPLO2	Design, develop and deploy cloud migration strategies and cloud applications
MIPLO3	Examine the current technologies in cloud platform development including service, control, security and software solutions

2.3 Programme structure

Stage label	Module title	ECTS	Module synopsis
Award	Web Development I	5	This module introduces the learner to current client-side technologies for designing and developing dynamic web sites. The module will provide learners with the skills and practical experience to build usable and accessible web sites.
Award	Web Development II	5	This module will enhance the web skills developed in Web Development I. This module will provide learners with the skills to implement more advanced web resources that use server-side technologies. It will examine web application architectures and further examine core protocols of the internet.
Award	Database Design and Cloud Technologies	10	In this module learners will develop robust databases using current database technologies and languages and development tools. They will understand the process of developing a relational database management system at conceptual, logical and physical levels. They will also be introduced to the development of databases in a cloud environment and examine current cloud computing and cloud services.
Award	Cloud Design and Development	10	This module investigates the technical aspects and implications of the design and development of enterprise level cloud computing technologies from an organisational perspective. It will explore in detail relevant agile systems development methodologies which are better suited to the cloud computing paradigm and examine relevant tools and techniques. It will examine how innovation in Software as a Service provision alters the implications to an organisation from an informational and technical viewpoint. Learners will develop skills in project management with a specific focus on practical IT Project Management related to cloud development. Evaluation of cloud migration planning and strategies. It will investigate cloud computing as an enabler of enterprise and innovation with particular reference to start-up companies.
Award	Cloud Platform Development	10	This module develops learner knowledge in the application of cloud computing from a development perspective. The learner will be introduced to the concepts of cloud applications design, development and deployment. Benefits and issues relating to cloud platforms will be identified plus considerations such as scalability, storage, security and costs. The module will encompass evaluation of different vendor's platform as a service (PaaS) service offerings.

2.4 Teaching and Learning Strategy for a multi-modal environment

The teaching and learning (T&L) strategy refers to the teaching modes, approaches and activities that the lecturer will use to help you work toward achieving the learning outcomes for the module.

Examples of T&L modes include:

Mode	Description
In-class	Where the lecturer and all the students are in the class
Live Online	Where the lecturer and all of the students are online at the same time
Hybrid	Where some of the students are online and some are in the class and the lecturer is either in-class or online
Pre-Recorded	Where the lecturer pre-records a session
On Demand	Where the lecturer has prepared teaching content or activities and made it available to you online for you to engage with at your own convenience

Examples of T&L approaches include:

Approach	Description
Lecture	Where the lecturer presents or talks about concepts, ideas, topics or theories
Tutorial	Where the lecturer and students engage in a discussion
Workshop	Where the lecturer and students engage in activities either collectively or in groups
Lab Demonstrations	Where the lecturer or students demonstrate processes usually on a computer

Examples of T&L Activities include:

Activity	Description
Case Study	Students review real-world examples of what they are learning about
Guest Speaker	A practitioner talks about real-world examples of what students are learning about
Group work	Students are divided into groups to work on a particular activity
Peer Review	Students review and comment on other students' work
Peer discussion	Students engage in a discussion about a topic which the lecturer observes and can contribute to
Quizzes	Students work through a series of short questions
Practical Exercises	Students carry out an individual task during the class
Peer Presentations	Students present either individually or as a group to their fellow students
Controlled Debate	Students are divided into groups and argue the merits of a specific stance on a topic usually determined by the lecturer
Reading	Students engage in a reading activity and either write or report back on what they have read
Watching Videos	Students analyse videos and have peer discussions on what they have seen

Peer Pairing	Students are split into pairs. Individually they carry out a task and then swap their work for the other student to review.
Role Play	Students act out a scenario from the real world for the whole group

Typically, a timetabled class will take place in one mode or another, for example through online, in-class, recorded or hybrid mode. Although the on-demand mode can be used on its own or with any of the other modes.

Usually, the lecturer will adopt the same approach for the length of each timetabled class, so your class will be a lecture or a tutorial or a workshop or a demonstration. However, the lecturer may mix approaches during a class. So, for example, the timetabled class may start with a lecture before moving into workshop and then finishing with a tutorial approach.

Lecturers can also draw on any of the activities above, and others not mentioned above, during a class whether it is online, hybrid or in-class. However, some activities and approaches are better suited to some modes.

You will find the specific details of which mode applies to which module in your online timetable as well as in your Module and Assessment Guides.

Should you have any queries, please do not hesitate to contact your Programme Coordinator or Module Leader.

Section 3 Assessment

3.1 Introduction to Assessment

The purpose of assessment is to ensure that you achieve the learning outcomes of each module. Learning outcomes are statements that specify what you will know or be able to do as a result of a learning activity. Assessment types will include practical, continual assessment, reports, group activities and exams.

It is important that you familiarise yourself with the format and number of assessments, assessment weighting, and due dates. These are published in the Module Guide which is available on [Moodle](#). An Assessment Brief is also published for each individual piece of continuous assessment. This will give details on the format, weighting and due date, as well as set out what task you are required to complete in the assignment. It also gives the marking scheme for each assignment, and you should use this to guide your completion of the assignment.

All assessments are marked and graded by your lecturer and are reviewed by an internal moderator and an external examiner. This is to ensure fairness, consistency of marking and the correct standard across all assessment. Results are always provisional until they are approved by the External Examiner and are processed through the programme Exam Board. The purpose of an Exam Board is to formally ratify results and determine award classification (for more information please refer to the [Quality Assurance Handbook](#)).

The assessment schedule is below and Moodle syncs with the Student Dashboard to provide a calendar of deadlines. The schedule lists the due dates for all your assessments due over the academic year. The schedule ensures that the workload is balanced across the academic year. Any extension requests need to be considered in light of this schedule, as changes might risk clashing deadlines, so it is very important to be aware of the potential impact of changes to assessment dates. The exam timetable is published on the [exam page](#) in the DBS current student area and is usually available about four weeks in advance of the exam period.

Your goal is to achieve the highest mark possible in your assessment. In order to do this, it is expected that learners:

- Complete ALL assessment components.
- Submit all assessment on time as indicated on the assessment specification.
- Complete all parts of each assessment.
- NEVER copy/plagiarise or submit content that is not yours by ensuring that you apply the correct referencing standard. DBS uses the Harvard Referencing style. A guide to this can be found [here](#).
- Always ask your lecturer if you are not sure about any requirements, not your fellow students.
- Always complete the required number of questions in an exam.

- Practice writing out answers for end -of term exams by doing [previous papers](#), in particular hand writing answers to ensure that your writing is legible.
- Always write/type your ID number on any assessment or exam script.
- If you require support for exams/assessment, ensure that you have completed the appropriate paperwork and submitted it to the [Learner Supports Services](#) well in advance of any assessment or exam dates.

3.2 Assessment Brief

Module Name	ECTS	CA %	CA Component Breakdown		Wk No	Feedback	Exam %
Web Development I	5	100%	50%	Individual Lab Assignments	3, 4	Individual personalised written feedback	
			50%	Individual Project and Report	6	Individual personalised written feedback	
Web Development II	5	100%	Group Project Technical Report Demonstration		12	Written feedback to the group	
Database Design and Cloud Technologies	10	70%	30%	Individual Lab Exam	7	Individual personalised written feedback	30%
			40%	Individual Project and Report	11	Individual personalised written feedback	
Cloud Design and Development	10	70%	Individual Practical Project		23	Individual personalised written feedback	30%
Cloud Platform Development	10	60%	Individual Report Project		17, 22	Individual personalised written feedback	40%

All assessment in this programme conforms to the DBS assessment regulations informed by QQI Assessment and Standards, Revised 2013. Special regulations are defined on the course schedule. Where a learner is found to require additional learning supports, the Learner Support Coordinator

Jane Buggle will identify appropriate support or an alternative assessment instrument. This will be agreed with the Registrar's Office and will be in accordance with the DBS Assessment Regulations. Please refer to DBS Quality Assurance Handbook (QAH) for further details.

3.3 Reassessment

Reassessment must assess the same learning outcomes as the prescribed assessment, and therefore all reassessments will conform in structure and subject matter to the original assessment, with the scope of group assessments being reduced as appropriate for individual assessment.

3.4 General Submission Requirements

1. All relevant provisions of the Assessment Regulations ([QAH Part B Section 5](#)) must be complied with, in addition to the requirements set out in the Assessment Brief:
 - Students are required to refer to the assessment regulations in their [Student Handbooks](#) and in [Part B Section 5 of the Quality Assurance Handbook](#).
2. Assignments should be submitted through the appropriate link on the module Moodle page (unless explicitly excepted by the lecturer). Assignments not submitted through Moodle may not be graded.
3. Online assignments must be submitted **no later than the stated deadline:**
 - Late submissions (up to 14 days) will receive the Late Submission penalty (see [QAH Section B Part 5.4](#));
 - After 14 days, late submissions will be awarded **0%**.
4. Extensions to assignment submission deadlines will be not be granted, other than in exceptional circumstances:
 - To apply for an extension please go to <https://students.dbs.ie/registrar-office/dbs-faq> and download the *Assignment Extension Request Form*, to complete and return, with supporting documentation, to your Programme Coordinator;
 - Ongoing exceptional circumstances can be considered for deferrals. To apply for a deferral, submit the completed *Personal Mitigating Circumstances Form*, with supporting documentation, to your Programme Coordinator
5. Students are required to retain a copy of each assignment submitted.
6. Dublin Business School penalises students who engage in Academic Impropriety (i.e. plagiarism, collusion, copying, essay mills, etc.):
 - Refer to the [QAH Part B Section 3.3](#) for further information on Academic Impropriety and the potential penalties;
 - Refer to the [Library](#) for information on correct referencing, and support classes.

3.5 Awarding Body and NFQ Level

This programme has been validated and approved by the Irish state agency, QQI (Quality and Qualifications Ireland), responsible for validating all third level programmes in Ireland. The programme is positioned at Level 7 on the National Framework of Qualifications (NFQ), a framework for the development, recognition and award of qualifications in Ireland.

3.6 Useful links and tips

Door codes for Bow Lane and Balfe Street are available at Reception desks.

Once registered, a learner should use the calendar in their student email account for personalised timetables.

Timetables can be sync'd with mobile devices, see <https://www.dbs.ie/about-dbs/news-and-events/2018/05/17/dublin-business-school-moodle-app> for more information.

- . www.dbs.ie
- . <https://elearning.dbs.ie/> (Moodle)
- . www.mydbs.ie (student email)
- . tts.dbs.ie for generic timetables
- . <https://library.dbs.ie/>
- . Lorls.dbs.ie (to access your reading list online)
- . esource.dbs.ie (repository of student and faculty research)
- . servicedesk.dbs.ie (to log support queries or issues)
- . Moodle App available for download (Play Store and iTunes): <https://elearning.dbs.ie/>

If you have any problems with your timetable or require technical support, please log a ticket at servicedesk.dbs.ie.



Section 4 Academic Calendar

The academic calendars can be found on the DBS website:

<https://students.dbs.ie/academicoperations/academic-calendars>

It shows the term dates, as well as reading weeks, the Christmas break and the exam session, including the repeat exams.

Section 5 Quality Assurance Handbook

All programmes delivered by DBS are delivered within a robust and established quality assurance infrastructure encapsulated by a *Quality Assurance Handbook*. This is available on the DBS website: <https://students.dbs.ie/registrar-office/gah>.

5.1 Key Assessment Regulations





Section 6 Conclusion

We hope you have found the programme handbook helpful. If you have any queries, please contact your Course Director or Programme Coordinator. Their contact details can be found in Section 1 of this handbook.

Enjoy your time at DBS!