Postgraduate Programme Specification

Session	2025/26	**Last Modified**	01/04/2025
Named Award Title	MSc Information Technology (with Optional Pathway)		
Award Title for Each Award	MSc Information Technology (with Optional Pathway) PgDip Information Technology (with Optional Pathway) PgCert Information Technology or PgCert Optional Pathway		
Date of Approval	30/05/2025		
Details of Cohort Applies to	This Programme Specification applies to students who enrol on this Programme from Term 1, Academic Year 2025-26		
Awarding Institution	University of the West of Scotland	**Teaching Institution(s)**	University of the West of Scotland
Language of Instruction & Examination		English	
Award Accredited by			
Maximum Period of Registration		For full time students the normal period of registration is 12 months, and the maximum period is 24 months For part time students the normal period of registration is 24 months, and the maximum period is 36 months *Authorised Interruption Guidance Notes (https://www.uws.ac.uk/media/6350/uws-authorised-interruption-guidance-notes.pdf*	
Duration of Study			
Full-time	1 year	**Part-time**	2 years
Placement (compulsory)	Not Applicable		
Mode of Study	☒ Full-time ☒ Part-time		
Campus	☐ Ayr ☐ Dumfries	☐ Lanarkshire ☒ London ☒ Paisley	☐ Online / Distance Learning ☐ Other (specify)
School	Computing, Engineering and Physical Sciences		
Divisional Programme Board	Business and Applied Computing		

Programme Leader	Dr Graeme A. McRobbie

Admissions Criteria

Candidates must be able to satisfy the general admission requirements of the University of the West of Scotland as specified in Chapter 2 of the University Regulatory Framework together with the following programme requirements.

Applicants must possess a non-IT bachelor's degree deemed to be at least equivalent to a UK second-class Honours degree from a recognised institution. Applicants with a bachelor's Ordinary degree may also be considered on an individual basis.

Appropriate Undergraduate Qualifications:

Applicants will typically possess a non-IT bachelor's degree deemed to be at least equivalent to a UK second-class Honours degree from a recognised institution. In the absence of a degree, where entry requirements do not conform to the general entry requirements, other evidence can be considered on an individual basis in line with Regulations 2.13 – 2.36 (Recognition of Prior Learning – RPL / Recognition of Credit).

Other Required Qualifications/Experience

Candidates
who have other academic, vocational, or professional qualifications, and candidates who have at least two years of industrial experience in an Information Technology role will be considered. A decision on a candidate's eligibility to register will be made on a case-by-case basis by the Programme Admissions Officer. Candidates may be required to attend an interview.

Further desirable skills pre-application

It is expected that candidates' qualifications/or experience will be in a variety of domains cognate with Information Technology.

General Overview

The following titles are offered as part of the pathway suite.

MSc Information Technology (with Pathways):

- MSc Information Technology[1]
- MSc Information Technology with Cloud Computing[4]
- MSc Information Technology with Data Analytics[1]
- MSc Information Technology with Financial Technologies[4]
- MSc Information Technology with Healthcare Technologies[2]
- MSc Information Technology with Information Security[2]
- MSc Information Technology with Project Management[1]
- MSc Information Technology with Web Development[3]

PgDip Information Technology (with Pathways)

- PgDip Information Technology[1]
- PgDip Information Technology with Cloud Computing[4]

- PgDip Information Technology with Data Analytics[1]
- PgDip Information Technology with Financial Technologies[4]
- PgDip Information Technology with Healthcare Technologies[2]
- PgDip Information Technology with Information Security[2]
- PgDip Information Technology with Project Management[1]
- PgDip Information Technology with Web Development[3]

PgCert Information Technology (or Pathways)

- PgCert Information Technology[1]
- PgCert Cloud Computing[4]
- PgCert Data Analytics[1]
- PgCert Financial Technologies[4]
- PgCert Healthcare Technologies[2]
- PgCert Information Security[2]
- PgCert Project Management[1]
- PgCert Web Development[3]

[1]Available for entry at Paisley and London Campuses: Term 1, 2 or 3 Academic Year 2025-26
[2]Suspended for Academic Year 2025-26
[3]Available for entry at Paisley Campus: Term 1, 2 or 3 Academic Year 2025-26
[4]Available for entry at London Campus: Term 1, 2 or 3 Academic Year 2025-26

Our MSc Information Technology is ideal if you have a degree in a subject other than Information Technology or computing and would like to develop much sought-after business-relevant Information Technology knowledge and skills.

The MSc Information Technology will help you to become a modern Information Technology professional who can analyse, design, deploy, utilise, and manage business-relevant Information Technology-based systems and services. You will enhance your understanding of modern Information Technology-based business systems and learn how to address related development, acquisition, and deployment issues in modern organisations.

The MSc Information Technology examines issues, trends, current practices, and technological alternatives in the field of business Information Technology and provides you with up-to-date technological and business skills, and specialist knowledge to help you design and implement appropriate, Information Technology-driven solutions in ways that address the needs of modern business organisations.

The MSc Information Technology provides a common foundation in Information Technology to all students. This is then followed by a selection of modules that depend upon your own future career goals and aspirations.

Students can specialise in one of the following streams: Cloud Computing; Data Analytics; Financial Technologies; Healthcare Technologies; Information Security; Project Management; or Web Development.

Graduates will be able to either take up posts with large employers in both private and public sectors or be able to work within the SME domain. The skill set and specialist knowledges provided will enable graduates to work in either a direct Information Technology systems development and deployment capacity, or in a more management-oriented role within a project team. This programme provides a qualification that can lead to job titles including

'Technology Manager', 'Information Technology Consultant', 'Business Analyst', 'Database Developer' and 'eBusiness Developer'.

Further studies in Information Technology may be undertaken through research degrees such as MPhil and/or PhD. Additionally, the School of Computing, Engineering and Physical Sciences offers a progression route for developing further industry-specific technical skills through accredited programmes with Microsoft, Cisco, Oracle, SAP, and others.
Teaching & Learning will employ face to face large and small group delivery and activities supported using a virtual learning environment, in this instance Aula. Small group tutorials are favoured as they are key to the development of behavioural and effective competencies needed by employers, "to develop reflective Information Technology practitioners engaging in purposeful activity for the benefit of the business or organisation".

The programme team recognises the need to maintain a focus on technological developments and the creation of modules of study and development to provide the latest set of technical skills. The programme team also recognises the need for the business contexts within which these skills and competencies can develop. Case studies are employed throughout the programme to provide such context. Effective team working is a critical theme.

Assessments are geared towards assessing (and developing) not just the technical skills but also the types of competencies described above. Modules will make use of instruments of assessment aimed at the individual and at the group level. Course works, class tests, and formal examinations will be employed.

Typical Delivery Method

This programme is delivered in both full and part time bases. The programme also embraces hybrid learning which offers flexibility for students and more efficient use of synchronous (virtual or face-to-face) lessons, thereby maximising engagement.

Any additional costs

No additional costs are anticipated.

Graduate Attributes, Employability & Personal Development Planning

As students progress through the programme, they are typically required to produce reflective and critical evaluations of the work they have created, both individually and in group contexts. Feedback on this work will be provided by teaching staff and supplemented with guidance on the e-portfolio by personal tutors.

The Personal Development Planning (PDP) and employability skills culminate in the Masters project, which offers students the opportunity to demonstrate the high-level skills they have developed throughout the programme, while also contributing a significant component to their professional portfolio.

The programme maintains strong links with graduates and employers, offering students continuous opportunities to interact with both groups via LinkedIn or through events such as Industrial Advisory Board meetings, company visits, guest speaker talks, and student/industry business networking events. These opportunities are typically available to students at all stages of the programme and are valuable for developing an understanding of

commercial perspectives, exploring employment opportunities, and staying informed on technological advancements.

Work Based Learning/Placement Details

Placements may also be available for the Masters Project. There is a history of postgraduate students picking up projects through the University's industrial contacts.

Several postgraduate students have become employees of the University recognising not only the worth of this programme in engendering valuable Information Technology skills and knowledge but also the project work that they have undertaken.

Attendance and Engagement

In line with the Student Attendance and Engagement Procedure, Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

The engagement and attendance requirements of individual modules are detailed in the module descriptors.

Equality and Diversity

In alignment with the University's commitment to equality and diversity, this programme actively promotes equal opportunities for students from all backgrounds and with diverse learning needs. Learning materials will be delivered via the Virtual Learning Environment (VLE) in electronic formats that support flexible access and allow for content manipulation to suit individual requirements.

Module coordinators are responsible for ensuring that all University-created materials use inclusive and culturally sensitive language. However, it should be noted that some external resources, such as textbooks or websites, may contain outdated or non-inclusive terminology. Students will be informed of this where applicable.

The programme adheres to the University's regulations and guidance on inclusive learning and teaching practices. Students are encouraged to consult the relevant module coordinator to discuss any specific needs. This will enable appropriate arrangements to be made regarding assistive technologies, support services, or assessment adjustments, in line with University policies.

Module coordinators will also ensure that all teaching resources are appropriate to the mode of delivery for each module. For laboratory-based modules, where access to physical devices or hardware may not be possible, suitable alternatives such as emulators and virtual software will be provided to ensure that all students have equitable access to essential tools and resources.

More information on the University's EDI policies can be accessed at Equality, Diversity & Inclusion

The University's Equality, Diversity and Human Rights Procedure can be accessed UWS Equality, Diversity and Human Rights Code.

Programme structures and requirements, SCQF level, term, module name and code, credits and awards (Chapter 1, Regulatory Framework)

Learning Outcomes

SCQF LEVEL 11 - Postgraduate Certificate (PgCert) Learning Outcomes	
Knowledge and Understanding	
A1	Demonstrate extensive knowledge of either Information Technology, Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development.
A2	Carry out work that evidences a critical understanding of the practical aspects of either Information Technology, Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development.
A3	Demonstrate a critical awareness of the capabilities of relevant technologies.
A4	
A5	
Practice - Applied Knowledge and Understanding	
B1	Apply a range of principal methodologies covered in the modules to identify requirements in planning solutions to either Information Technology, Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development problems.
B2	Investigate, compare, and evaluate either Information Technology, Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development protocols, architectures, and applications.
B3	Apply a range of techniques/tools to support the development and/or management of either Information Technology, Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development and document relevant information.
B4	
B5	
Communication, ICT and Numeracy Skills	
C1	Interpret and analyse either Information Technology, Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development information using ICT methods.
C2	Communicate information effectively with different audiences using a range of appropriate methods.
C3	
C4	
C5	
Generic Cognitive Skills - Problem Solving, Analysis, Evaluation	

D1	Evaluate the performance of either Information Technology, Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development technologies through laboratory work.
D2	Demonstrate an advanced working knowledge of recent advances in either Information Technology, Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development and present findings in report format.
D3	
D4	
D5	
Autonomy, Accountability and Working with Others	
E1	Demonstrate leadership and/or partnership in the planning and delivery individual work and group work.
E2	Demonstrate a high level of understanding of the needs of the business and how to work with colleagues to design and explain either Information Technology, Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development strategies.
E3	
E4	
E5	

Postgraduate Certificate (PgCert) Modules

CORE

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	COMP11107	Business Data Communication and Networks	20	☒	☐	☒	1
11	COMP11109	Database Design & Implementation	20	☒	☐	☒	2
11	COMP11113	Information Systems Analysis and Design	20	☐	☒	☐	3
11	COMP11115	Internet and Cloud Computing	20	☒	☐	☒	4
11	COMP11104	Agile Cloud Automation	20	☐	☒	☐	5
11	COMP11108	Data Analysis and Visualisation	20	☒	☐	☒	6
11	COMP11122	Data Mining and Business Intelligence	20	☐	☒	☐	7
11	COMP11110	Digital Finance	20	☒	☐	☒	8
11	COMP11106	Blockchain Technologies for Finance	20	☐	☒	☐	9
11	COMP11105	An Introduction to eHealth	20	☐	☐	☐	10
11	COMP11111	eHealth: Assessment from a Distance	20	☐	☐	☐	11
11	COMP11118	Network Security Issues	20	☐	☐	☐	12

11	COMP11123	Enterprise Cybersecurity Management	20	☐	☐	☐	13
11	COMP11114	Information Technology Project Management	20	☒	☐	☒	14
11	COMP11112	Enterprise Architecture	20	☐	☒	☐	15
11	COMP11121	Web Application Development	20	☒	☐	☒	16
11	COMP11120	Server-Side Web Development	20	☐	☒	☐	17

Footnotes for Core Modules

1. Core module for the PgCert Information Technology. Available at Paisley and London campuses
2. Core module for the PgCert Information Technology. Available at Paisley and London campuses
3. Core module for the PgCert Information Technology. Available at Paisley and London campuses
4. Core module for the PgCert Cloud Computing. Only available at London campus
5. Core module for the PgCert Cloud Computing. Only available at London campus
6. Core module for the PgCert Data Analytics. Available at Paisley and London campuses
7. Core module for the PgCert Data Analytics. Available at Paisley and London campuses
8. Core module for the PgCert Financial Technologies. Only available at London campus
9. Core module for the PgCert Financial Technologies. Only available at London campus
10. Core module for the PgCert Healthcare Technologies. Suspended for 2025-26
11. Core module for the PgCert Healthcare Technologies. Suspended for 2025-26
12. Core module for the PgCert Information Security. Suspended for 2025-26
13. Core module for the PgCert Information Security. Suspended for 2025-26
14. Core module for the PgCert Project Management. Available at Paisley and London campuses
15. Core module for the PgCert Project Management. Available at Paisley and London campuses
16. Core module for the PgCert Web Development. Only available at Paisley campus
17. Core module for the PgCert Information Security. Only available at Paisley Campus

Postgraduate Certificate (PgCert) Modules

OPTION

SCQF Level	**Module Code**	**Module Title**	**Credit**	**Term**			**Footnotes**
				1	**2**	**3**	
11	COMP11124	Interactive Software Design	20	☐	☒	☐	1
11	COMP11125	Work Based Learning	20	☐	☒	☐	2
				☐	☐	☐	
				☐	☐	☐	
				☐	☐	☐	
				☐	☐	☐	
				☐	☐	☐	
				☐	☐	☐	

Footnotes for Option Modules

1. Recommended Option. Available at Paisley and London campuses.
2. Recommended Option. Available at Paisley and London campuses.

To enrol on this module, a student would normally be working in an Information Technology setting prior to the commencement of the module. Prior to prior to enrolling on this module, a project must be selected and arranged by, and agreed with, the client, university and student and supported by a tripartite agreement. The tripartite agreement will define specific learning and practice outcomes for the student and confirm required elements of support and commitment from all parties.

Level 11- Postgraduate Certificate (PgCert)
Criteria for Award
Please refer to UWS Regulatory Framework for related regulations

The criteria for the award of a Postgraduate Certificate are defined in the University Regulatory Framework: 60 credit points of which a minimum of 40 are at SCQF 11 and none less than SCQF level 10.

- For the PG Cert Information Technology, students are required to pass three of the core modules from those listed above.
- For the PG Cert in a Specialist Pathway, students are required to pass the two core modules in that specialist pathway and any one of the optional modules from those listed above

SCQF LEVEL 11 - Postgraduate Diploma (PgDip) Learning Outcomes	
Knowledge and Understanding	
A1	Demonstrate a critical and deep understanding and practical ability in examining the current and emerging techniques, standards, methodologies, and tools that support the development of Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development.)
A2	Analyse business requirements, choose from and justify the choice of different smart networking approaches by analysing the benefits and risks for a given Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) strategy, and recommend appropriate standard-based solutions,
A3	Develop and evaluate Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) solutions using suitable methodologies, technologies, and software tools.
A4	
A5	
Practice - Applied Knowledge and Understanding	
B1	Apply skills to configure Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) devices or technologies, and deploy/develop applications that meet standards.
B2	Analyse a given business scenario to offer recommendations on how best to develop Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) solutions
B3	
B4	
B5	
Communication, ICT and Numeracy Skills	
C1	Analyse and interpret complex information relating to the development, management, and evaluation of Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) solutions using appropriate methods.
C2	Produce and present performance evaluation results regarding Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) solutions.
C3	Communicate information and justifying the chosen performance evaluation strategies to stakeholders effectively with different audiences using a range of appropriate methods.

C4	
C5	
Generic Cognitive Skills - Problem Solving, Analysis, Evaluation	
D1	Carry out critical analysis, evaluation and synthesis of strategies meeting a given set of requirements.
D2	Prepare reports that demonstrate a working knowledge of recent advances in Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development.)
D3	Demonstrate ability to develop and implement solutions to practical problems.
D4	Analyse and critically review research in a specific area of Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development)
D5	
Autonomy, Accountability and Working with Others	
E1	Demonstrate leadership in the planning and delivery individual work and group work.
E2	Work in ways that demonstrates critical reflection upon roles and responsibilities.
E3	Demonstrate a high level of understanding of the needs of the business and how to work with non-technical senior colleagues to design and explain Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) strategies.
E4	Demonstrate the ability to work in a professional manner and be able to make informed judgements relating to professional issues including ethical considerations.
E5	

Postgraduate Diploma (PgDip) Modules

CORE

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	COMP11107	Business Data Communication and Networks	20	☒	☐	☒	1
11	COMP11109	Database Design & Implementation	20	☒	☐	☒	2
11	COMP11113	Information Systems Analysis and Design	20	☐	☒	☐	3
11	COMP11115	Internet and Cloud Computing	20	☒	☐	☒	4
11	COMP11104	Agile Cloud Automation	20	☐	☒	☐	5
11	COMP11108	Data Analysis and Visualisation	20	☒	☐	☒	6
11	COMP11122	Data Mining and Business Intelligence	20	☐	☒	☐	7

11	COMP11110	Digital Finance	20	☒	☐	☒	8
11	COMP11106	Blockchain Technologies for Finance	20	☐	☒	☐	9
11	COMP11105	An Introduction to eHealth	20	☐	☐	☐	10
11	COMP11111	eHealth: Assessment from a Distance	20	☐	☐	☐	11
11	COMP11118	Network Security Issues	20	☐	☐	☐	12
11	COMP11123	Enterprise Cybersecurity Management	20	☐	☐	☐	13
11	COMP11114	Information Technology Project Management	20	☒	☐	☒	14
11	COMP11112	Enterprise Architecture	20	☐	☒	☐	15
11	COMP11121	Web Application Development	20	☒	☐	☒	16
11	COMP11120	Server-Side Web Development	20	☐	☒	☐	17

Footnotes for Core Modules

1. Core module for the PgDip Information Technology and all the Pathways. Available at Paisley and London campuses
2. Core module for the PgDip Information Technology and all the Pathways. Available at Paisley and London campuses
3. Core module for the PgDip Information Technology and all the Pathways. Available at Paisley and London campuses
4. Core module for the PgDip Information Technology with Cloud Computing. Only available at London Campus
5. Core module for the PgDip Information Technology with Cloud Computing Only available at London Campus
6. Core module for the PgDip Information Technology with Data Analytics. Available at Paisley and London campuses
7. Core module for the PgDip Information Technology with Data Analytics. Available at Paisley and London campuses
8. Core module for the PgDip Information Technology with Financial Technologies. Only available at London Campus
9. Core module for the PgDip Information Technology with Financial Technologies. Only available at London Campus
10. Core module for the PgDip Information Technology with Healthcare Technologies. Suspended for 2025-26
11. Core module for the PgDip Information Technology with Healthcare Technologies. Suspended for 2025-26
12. Core module for the PgDip Information Technology with Information Security. Only available at Paisley campus
13. Core module for the PgDip Information Technology with Information Security. Suspended for 2025-26
14. Core module for the PgDip Information Technology with Project Management. Available at Paisley and London campuses
15. Core module for the PgDip Information Technology with Project Management. Available at Paisley and London campuses
16. Core module for the PgDip Information Technology with Web Development. Only available at Paisley campus
17. Core module for the PgDip Information Technology with Information Security. Only available at Paisley Campus

Postgraduate Diploma (PgDip) Modules

OPTION

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	COMP11124	Interactive Software Design	20	☐	☒	☐	**1**
11	COMP11125	Work Based Learning	20	☐	☒	☐	**2**
				☐	☐	☐	
				☐	☐	☐	
				☐	☐	☐	
				☐	☐	☐	
				☐	☐	☐	

Footnotes for Option Modules

1. Recommended Option. Available at Paisley and London campuses.
2. Recommended Option. Available at Paisley and London campuses.
   To enrol on this module, a student would normally be working in an Information Technology setting prior to the commencement of the module. Prior to prior to enrolling on this module, a project must be selected and arranged by, and agreed with, the client, university and student and supported by a tripartite agreement. The tripartite agreement will define specific learning and practice outcomes for the student and confirm required elements of support and commitment from all parties.

Level 11- Postgraduate Diploma (PgDip)
Criteria for Award
Please refer to UWS Regulatory Framework for related regulations

The criteria for the award of a Postgraduate Diploma (PG Dip) are defined in the University Regulatory Framework: 120 credit points of which a minimum of 90 are at SCQF 11 and none less than SCQF level 10.

- For the PG Dip Information Technology, students are required to pass the three core IT modules, any two of the specialist pathway modules, and any one of the optional modules from those listed above.
- For the PG Dip Information Technology with a Specialist Pathway, students are required to pass the three core IT modules, the two core modules in that specialist pathway, and any one of the optional modules from those listed above.

Awards shall be made with Distinction to candidates who meet the criteria laid in University Regulations 3.25-3.26.

SCQF LEVEL 11 – Masters Learning Outcomes (Maximum of 5 per heading)	
Knowledge and Understanding	
A1	Produce an MSc project specification, and write a detailed, well-argued, and coherent thesis of a sustained independent work of high quality that fulfils an agreed specification.
A2	Demonstrate a systematic and critical understanding of the approaches available to address problems and create knowledge and useful artefacts within the Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) subject areas, and of the underlying theoretical assumptions and concepts of such approaches.
A3	Demonstrate an ability to select and apply in a critical and reflective fashion, appropriate research and/or development techniques in producing a solution or solutions to a practical problem in the Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) subject area.
A4	Critically and reflectively plan and execute an Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) related project to develop an artefact that is fit for purpose in addressing a stated problem.
A5	
Practice - Applied Knowledge and Understanding	
B1	Apply appropriate theoretical and practical methods to the analysis and solution of Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) problems
B2	Identify potential projects and opportunities for enhancing Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) systems.
B3	Conduct appropriate research and undertake design and development of Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) solutions.
B4	Implement solutions in accordance with designs and evaluate their effectiveness.
B5	
Communication, ICT and Numeracy Skills	
C1	Communicate with others at all levels.
C2	Present and discuss proposals on strategic matters, leading and sustaining debate and feeding results back to improve proposals.
C3	Demonstrate personal and social skills and awareness of the concerns of others.
C4	
C5	

Generic Cognitive Skills - Problem Solving, Analysis, Evaluation	
D1	Plan and evaluate programs of laboratory work relating to Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) systems development.
D2	Demonstrate ability to develop and implement creative solutions to practical problems
D3	Analyse and critically review data from various analyses in the context of Information Technology (with optional specialisms in either Cloud Computing, Data Analytics, Financial Technologies, Healthcare Technologies, Information Security, Project Management or Web Development) systems
D4	
D5	
Autonomy, Accountability and Working with Others	
E1	Provide technical and commercial leadership.
E2	Demonstrate potential to plan, budget organise, direct and control tasks, people, and resources.
E3	Demonstrate a personal commitment to professional standards, codes of conduct, safe systems of work, contributing to sustainable development, and continuing professional development.
E4	
E5	

Masters Modules

CORE

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	COMP11107	Business Data Communication and Networks	20	☒	☐	☒	1
11	COMP11109	Database Design & Implementation	20	☒	☐	☒	2
11	COMP11113	Information Systems Analysis and Design	20	☐	☒	☐	3
11	COMP11115	Internet and Cloud Computing	20	☒	☐	☒	4
11	COMP11104	Agile Cloud Automation	20	☐	☒	☐	5
11	COMP11108	Data Analysis and Visualisation	20	☒	☐	☒	6
11	COMP11122	Data Mining and Business Intelligence	20	☐	☒	☐	7
11	COMP11110	Digital Finance	20	☒	☐	☒	8
11	COMP11106	Blockchain Technologies for Finance	20	☐	☒	☐	9
11	COMP11105	An Introduction to eHealth	20	☐	☐	☐	10
11	COMP11111	eHealth: Assessment from a Distance	20	☐	☐	☐	11

11	COMP11118	Network Security Issues	20	☐	☐	☐	12
11	COMP11123	Enterprise Cybersecurity Management	20	☐	☐	☐	13
11	COMP11114	Information Technology Project Management	20	☒	☐	☒	14
11	COMP11112	Enterprise Architecture	20	☐	☒	☐	15
11	COMP11121	Web Application Development	20	☒	☐	☒	16
11	COMP11120	Server-Side Web Development	20	☐	☒	☐	17
11	COMP11117	MSc Masters Project	60	☒	☒	☒	18
11	COMP11xxx	MSc Masters Pathway Project	60	☒	☒	☒	19

Footnotes for Core Modules

1. Core module for the MSc Information Technology and all the Pathways. Available at Paisley and London campuses.
2. Core module for the MSc Information Technology and all the Pathways. Available at Paisley and London campuses.
3. Core module for the MSc Information Technology and all the Pathways. Available at Paisley and London campuses.
4. Core module for the MSc Information Technology with Cloud Computing (and optional for the MSc Information Technology.) Only available at London campus.
5. Core module for the MSc Information Technology with Cloud Computing (and optional for the MSc Information Technology.) Only available at London campus
6. Core module for the MSc Information Technology with Data Analytics (and optional for the Masters Information Technology.) Available at Paisley and London campuses.
7. Core module for the MSc Information Technology with Data Analytics (and optional for the MSc Information Technology.) Available at Paisley and London campuses.
8. Core module for the MSc Information Technology with Financial Technologies (and optional for the MSc Information Technology.) Only available at London campus.
9. Core module for the MSc Information Technology with Financial Technologies (and optional for the MSc Information Technology) Only available at London campus
10. Core module for the MSc Information Technology with Healthcare Technologies (and optional for the MSc Information Technology.) Suspended for 2025-26.
11. Core module for the MSc Information Technology with Healthcare Technologies (and optional for the MSc Information Technology). Suspended for 2025-26.
12. Core module for the MSc Information Technology with Information Security (and optional for the MSc Information Technology.) Only available at Paisley campus.
13. Core module for the MSc Information Technology with Information Security (and optional for the MSc Information Technology.) Suspended for 2025-26.
14. Core module for the MSc Information Technology with Project Management (and optional for the MSc Information Technology.) Available at Paisley and London campuses.
15. Core module for the MSc Information Technology with Project Management. Available at Paisley and London campuses.
16. Core module for the MSc Information Technology with Web Development (and optional for the MSc Information Technology.) Only available at Paisley campus
17. Core module for the MSc Information Technology with Web Development (and optional for the MSc Information Technology.) Only available at Paisley campus
18. Core module for the MSc Information Technology. Available at Paisley and London campuses.
19. Core module all the Pathways. Available at Paisley and London campuses.

Masters Modules

OPTION

SCQF Level	Module Code	Module Title	Credit	Term			Footnotes
				1	2	3	
11	COMP11124	Interactive Software Design	20	☐	☒	☐	1
11	COMP11125	Work Based Learning	20	☐	☒	☐	2
				☐	☐	☐	
				☐	☐	☐	
				☐	☐	☐	

Footnotes for Option Modules

1. Recommended Option. Available at Paisley and London campuses.
2. Recommended Option. Available at Paisley and London campuses.
   To enrol on this module, a student would normally be working in an Information Technology setting prior to the commencement of the module. Prior to prior to enrolling on this module, a project must be selected and arranged by, and agreed with, the client, university and student and supported by a tripartite agreement. The tripartite agreement will define specific learning and practice outcomes for the student and confirm required elements of support and commitment from all parties.

Level 11- Masters
Criteria for Award
Please refer to UWS Regulatory Framework for related regulations

The criteria for the award of a Master of Science (Masters) are defined in the University Regulatory Framework: 180 credit points of which a minimum of 150 are at SCQF 11 and none less than SCQF level 10.

- For the MSc Information Technology, students are required to pass the three core IT modules, any two of the specialist pathway modules, and any one of the optional modules from those listed above. Students must also complete and pass a Masters Project.
- For the MSc Information Technology with a Specialist Pathway, students are required to pass the three core IT modules, the two core modules in that specialist pathway, and any one of the optional modules from those listed above. Students must also complete and pass a Masters Project within the area of the specialist pathway.

Awards shall be made with Distinction to candidates who meet the criteria laid in University Regulations 3.25-3.26.

Regulations of Assessment

Candidates will be bound by the general assessment regulations of the University as specified in the University Regulatory Framework.

An overview of the assessment details is provided in the Student Handbook and the assessment criteria for each module is provided in the module descriptor which forms part of

the module pack issued to students. For further details on assessment please refer to Chapter 3 of the Regulatory Framework. To qualify for an award of the University, students must complete all the programme requirements and must meet the credit minima detailed in Chapter 1 of the Regulatory Framework.

Combined Studies
There may be instances where a student has been unsuccessful in meeting the award criteria for the named award and for other more generic named awards existing within the School. Provided that they have met the credit requirements in line with the SCQF credit minima (please see Regulation 1.21), they will be eligible for a Combined Studies award (please see Regulation 1.61). For students studying at Level 11, they will normally be eligible for an exit award of PgCert / PgDip / Masters in Combined Studies.

Version no: 1.1

Change/Version Control

What	**When**	**Who**
Update Approval Date; Update Campus of Delivery; Added information re Admissions Criteria; Added information re Entry Qualifications; Inserted Programme Specific Equality and Diversity Statements; Updated Module Titles	23/06/2025	Graeme McRobbie
Updated Module Delivery Schedule	09/03/025	Graeme McRobbie
Updated Specialist Pathways	01/04/2025	Graeme McRobbie
Removed Redundant Module	23/04/2024	Graeme McRobbie