



UNIVERSITY
OF LONDON

Programme Regulations 2025–2026

Cyber Security
MSc/PGDip/PGCert

Project Management
Project Management
(Sustainability)
Project Management
(Software Development)
MSc/PGDip/PGCert

Important document – please read
This document contains important
information that governs your
registration, assessment and
programme of study



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Important information regarding the Programme Regulations

Last revised 17 March 2025

As a student registered with the University of London you are governed by the current General Regulations and Programme Regulations associated with your programme of study.

These Programme Regulations are designed and developed by the University of London which is responsible for the academic direction of the programme. The Programme Regulations will provide the detailed rules and guidance for your programme of study.

In addition to Programme Regulations you will have to abide by the [General Regulations](#). These regulations apply to all students registered for a programme of study with the University of London and provide the rules governing registration and assessment on all programmes; they also indicate what you may expect on completion of your programme of study and how you may pursue a complaint, should that be necessary. Programme Regulations should be read in conjunction with the General Regulations.

The relevant General Regulations and the Programme Regulations relating to your registration with us are for the current year and not the year in which you initially registered.

On all matters where the regulations are to be interpreted, or are silent, our decision will be final.

Further information about your programme of study is outlined in the Programme Specification which is available on the relevant Courses page of the website. The Programme Specification gives a broad overview of the structure and content of the programme as well as the learning outcomes students will achieve as they progress.

Terminology

The following language is specific to the MSc Programmes in these regulations:

Module: Individual units of the programme are called module. Each module is a self-contained, formally structured learning experience with a coherent and explicit set of learning outcomes and assessment criteria.

Compulsory module: A 15-credit module that must be taken.

Optional module: A 15-credit module that is chosen from a number of options. This applies solely to students registered on certain programmes.

Study session: There are four study sessions in a year, each lasting 10 weeks. Sessions begin in October, January, April and July. Each session is followed by an assessment submission point.

Resitting the assessment of a failed module: When you resit a failed module you will not be allocated a tutor group but you will have access to the learning materials on the VLE and you will be required to resubmit your summative assessment.

Repeating a failed module: When you repeat a failed module you will be allocated a tutor group, you will have access to the learning materials on the VLE and you will be required to resubmit your summative assessment.

Throughout the Regulations, 'we' 'us' and 'our' mean the University of London; 'you' and 'your' mean the student, or where applicable, all students.

If you have a query about any of the programme information provided please contact us. You should use the *ask a question* button in the [student portal](#).

Postgraduate Standard Academic Model Programmes

The following Postgraduate programmes are contained within these Regulations

Programme pages can be accessed directly through these links:

- [Cyber Security](#)
- [Project Management and specialisms](#)

Changes to these MSc Regulations 2025–2026

The following change applies to MSc Cyber Security only:

Regulation 2.2 has been amended to indicate that assessment takes place in January for the October session and in June or July for the April session.

Appendix A – In order to register on CYM500, students must have *registered for* (rather than *passed*) CYM100 Research Methods.

It is noted that the assessment for MSc Cyber Security modules except for CYM100 and CYM500 is timed and lasts 3 hours.

1 Structure of the programmes

Programmes and qualifications

1.1

The following named qualifications are awarded under the **Cyber Security** programme:

- Master of Science (MSc) in Cyber Security
- Postgraduate Diploma (PGDip) in Cyber Security
- Postgraduate Certificate (PGCert) in Cyber Security

1.2

The following named qualifications are awarded under the **Project Management** programme:

- Master of Science (MSc) in Project Management
- Master of Science (MSc) in Project Management (Software Development)
- Master of Science (MSc) in Project Management (Sustainability)
- Postgraduate Diploma (PGDip) in Project Management
- Postgraduate Certificate (PGCert) in Project Management

Qualification structure

1.3

Each MSc consists of

- ten compulsory modules (15 credits each)
- one Project module (30 credits)

1.4

Each PGDip consists of

- eight modules (15 credits each)

1.5

Each PGCert consists of

- four modules (15 credits each)

Individual modules

1.6

Select modules from these programmes are available to study on a stand-alone basis, subject to module availability.

See the Programme page for information about the modules available for study on a stand-alone basis and when they run.

2 Registration

Effective date of registration

2.1

Your effective date of registration will be either:

- 1 October, if you first register before the September registration deadline.
- 1 April, if you first register before the March registration deadline;

Date of first assessments

2.2

If your effective date of registration is:

- 1 October, you will take your first end-of-module assessment(s) in January at the end of the 10-week study session.
- 1 April, you will take your first end-of-module assessment(s) in June or July at the end of the 10-week study session.

Study sessions

2.3

The programme has two registration points in the year. There are four study sessions in a year, each lasting 10 weeks. Sessions begin in October, January, April and July. Each session is followed by an assessment submission point.

2.4

Each 15-credit module will be taught over one 10-week session.

2.5

The Project is 30 credits and will be taught over two consecutive 10-week sessions. The project will only start in specific sessions. Refer to the module release schedule.

Period of registration

See the Programme Specification for the minimum periods of registration applicable to these qualifications. See the [General Regulations](#) for the maximum periods of registration applicable to these qualifications.

2.6

The minimum and maximum periods of registration to complete the programme are counted from your effective date of registration.

If the maximum registration period for your qualification changes during your studies, you will retain the period of registration initially given to you on registration. Your period of registration may still change if you change qualification as set out in Programme Regulations.

2.7

If you start by taking individual modules and then register for the PGCert/PGDip/MSc we will give you a new maximum period of registration for the PGCert/PGDip/MSc.

2.8

Where applicable, if you progress from a PGCert or PGDip, to a PGDip or MSc respectively, your maximum period of registration will continue to be counted from your effective date of registration for the PGCert or PGDip.

See [Section 4: Module selection](#) for information on the maximum and minimum number of modules you can register for in a study session.

3 Recognition of prior learning and credit transfer

To be read in conjunction with the [General Regulations](#), Section 3.

Recognition of prior learning

Recognition of prior learning is a generic term for the process by which we recognise and, where appropriate, award credit for learning that has taken place elsewhere, before entry onto a programme of study. Where the prior learning covered a similar syllabus at an appropriate level to a module on the University of London programme, credit will be awarded as if you took the University of London module/course.

3.1

If you are registered for a MSc or PGDip, you may be granted recognition of prior learning mapped against modules to a total of 60 UK credits.

3.2

Applications for recognition of prior learning for the Project will not be accepted.

3.3

If you are registered for a PGCert, you may not apply for recognition of prior learning.

4 Module selection

4.1

You may register for a minimum of **15** new credits per session. In any one session, you may register for a maximum of **45** credits in a combination of new, failed modules, of which a maximum of **30** credits may be made up of new modules per session.

A new module is a module you have not registered for previously or for which a previous attempt was invalid.

In a session where you are registered for the Project, this will count as 15 credits per session.

In order to complete within your maximum period of registration, you should normally register for at least 30 credits per academic year. Note that to complete the MSc within the 5-year maximum period of registration, you will need to complete more than 30 credits in at least one of those academic years to bring your total credits to 180 credits.

If you would like to pause or interrupt your study, you will be required to submit a formal request in accordance with the UoL Additional Considerations policy in the [Student Portal](#).

4.2

Cyber Security MSc, PGDip and PGCert students must register for CYM010 Cyber security foundations in their first study session.

4.3

Project Management MSc, PGDip and PGCert students must register for PMM010 Introduction to project management in their first study session.

Cyber Security MSc students must have registered for CYM100 Research Methods for Cyber Security to register on CYM500 Project Module.

Module availability

4.4

Where the learning experience may be compromised due to low student registrations, we may consider deferring the module to a later session.

4.5

CYM010 Cyber security foundations and PMM010 Introduction to project management will run in each October and April study session.

4.6

All other modules will ordinarily run only once a year, subject to the module running schedule. Not all modules will run in every study session.

5 Assessment for the programme

Summary of assessment

See [Appendix B](#) for the specific assessment for each module.

5.1

All modules are assessed by either one or two elements of assessment.

5.2

15 credit modules with two elements of assessment are assessed by:

- one mid-session online test (for example, multiple choice question tests (MCQs) or auto-graded problem-solving task) weighted at 25%;

and

- one unseen written end of session coursework or online assessment weighted at 75%.

5.3

15 credit modules with one element of assessment are assessed by one unseen written end of term coursework or online assessment.

5.4

The MSc Project Management Project module has two elements of assessment, a research proposal weighted at 30% and the final project weighted at 70%.

5.5

MSc Cyber Security Project module has one element of assessment weighted at 100%.

Details about assessment methods for each module is available in the programme structures in [Appendix A](#) and in the [Programme Specifications](#)

Passing assessments

5.6

Once registered for a module, you are required to complete the assessment of that module in the session registered.

5.7

The pass mark for each module is 50%. Where there is more than one element of assessment for a module, you do not need to pass each element of assessment, although you do need to obtain an overall weighted mark of 50% in each module. Unsubmitted elements of assessment will receive a mark of 0 (Fail).

5.8

For a module with two elements of assessment, if you do not submit the first or second element of assessment, or neither, you will receive a mark of zero for the unsubmitted element(s) and this will count as an attempt at the module. Your module mark will still be based on the overall weighted mark.

5.9

For the MSc Project Management Project module, if you do not submit the research proposal, you will not be permitted to submit the final project. You will receive a mark of zero for the unsubmitted elements and this will count as an attempt at the module.

5.10

You must make a second attempt at the assessment for a module you have failed, provided that you have not exceeded the maximum number of attempts at the assessment/s. If there are two elements of assessment for the module, all assessment elements will need to be attempted.

See [General Regulations](#) for Rules for taking written assessments.

Mitigating circumstances

5.11

For 15 credit modules where there is more than one element of assessment, mitigating circumstances will only be accepted for the second, higher weighted element of assessment.

5.12

For the Project, mitigating circumstances will be accepted for any element of assessment.

See [the website](#) for information on the submission of [mitigating circumstances](#).

Penalty for exceeding the word count

5.13

For coursework elements and online examinations with a given word limit, you should not exceed the word limit by more than 10%. If the word count is between 10% to 20% above the word limit, the assessment will receive a five mark penalty. If the word count exceeds the word limit by more than 20% you will receive a mark of zero for your work.

Late submission of coursework elements

5.14

You must keep to the deadlines given on the VLE. Unless prior permission is granted, coursework elements that are submitted after the deadline will not be marked and you will receive a zero for the element.

6 Number of attempts permitted at an assessment element

6.1

The maximum number of attempts permitted for any element of assessment is two.

6.2

You will fail the assessment if your overall weighted mark for the module is below 50%.

6.3

You must make a second attempt at the assessment for a module you have failed, provided that you have not exceeded the maximum number of attempts at the assessment/s. If there are two elements of assessment for the module, all assessment elements will need to be attempted.

6.4

If you pass the module overall with a mark of 50% or above, you will not be permitted to make a second attempt at any assessment element.

Resitting the assessment of a failed module

If you resit the assessment for a module, you will have to pay a fee when you re-register for the module to resit the assessment. The fee payable is outlined in the fee schedule.

You will not be allocated a tutor group but will have access to the learning materials on the VLE and will be required to resubmit your summative assessment.

Check the Programme Structure in [Appendix A](#) for whether a module offers a resit opportunity.

6.5

If you fail the assessment for a module held in the October session or the January session, your resit opportunity will be the July session of the same academic year.

6.6

If you fail the assessment for a module held in the April session or the July session, your resit opportunity will be in January of the following academic year.

6.7

If you do not make a second attempt at a failed module at the first opportunity, you will be required to repeat the module in full. **You will be required to pay the full module fee.**

Repeating a failed module

If you repeat a module, you will have to pay the full module fee when you re-register for the module. When you repeat a failed module you will be allocated a tutor group, you will have access to the learning materials on the VLE and you will be required to resubmit your summative assessment.

Please note that the assessment brief may change each session and you are required to respond to the brief for the session you are registered for.

6.8

You may choose when you repeat a failed module. You do not have to take the assessment at the next available study session.

7 Progression within the programme

See [Section 4: Assessment for the programme](#) for method of assessment.

7.1

You must have passed 60 credits before you register for the Project.

Progression between qualifications within a programme

7.2

Successful completion of the PGCert will allow you to progress to the MSc or PGDip. Final results ratified at the exam board will be used as the basis for progression.

7.3

If you are registered on either the PGCert or PGDip and want to transfer your registration to a higher qualification, you should notify us before you enter for your final assessments.

Where applicable, as the entrance requirements for the PGCert, PGDip and MSc are the same, you do not need to successfully complete the lower award to transfer to the higher award. However, transfer of registration cannot take place whilst a study session is live and before results for this session are ratified by the exam board.

Individual modules

See [Section 1: Structure of the programmes](#) for information about stand-alone individual module availability.

7.4

You may take three modules (45 credits total) on a stand-alone basis without being registered for a PGCert, PGDip or MSc under these regulations, subject to availability of standalone individual modules. If you apply to progress to a PGCert, PGDip or MSc and this is approved, you may be credited with any individual modules successfully completed.

7.5

If you subsequently join a programme and have not passed CYM010 Cyber security foundations or PMM010 Introduction to project management, you must register on this module in your first session.

Transfer from individual modules

7.6

A mark awarded for completion of an individual module may not be used to replace any mark for a degree, diploma or certificate already awarded.

7.7

If you are registered on standalone individual modules and you wish to transfer your registration to the PGCert, PGDip or MSc, you must meet the entrance requirements for Direct Entry or for Performance Based Admission (PBA).

7.8

If you only meet the entrance requirements for Performance Based Admission (PBA) but have already successfully completed two individual modules on a standalone basis (30 credits total), you will be permitted to transfer your registration directly onto the MSc, PGDip or PGCert via the Direct Entry route.

7.9

Only three modules (a maximum of 45 credits) may be counted as credit towards the MSc, PGDip or PGCert.

If you request to transfer from standalone individual modules to the MSc, PGDip or PGCert and are currently undertaking the study for these modules, transfer of registration cannot take place whilst a study session is live and before results for this session are ratified by the exam board.

Performance Based Admissions

7.10

There are Performance Based Admission (PBA) routes onto the following programmes:

- MSc Cyber Security
- MSc Project Management

There are two entry routes into the MSc: the Direct Entry route and the Performance Based Admission route. See the entrance requirements in the Programme Specification, and the requirements tab on the programme's web page for full details.

7.11

To enter the MSc via the Performance Based Admission (PBA) route, you must first register for and pass two of the 15-credit modules.

7.12

While registered on the PBA route you may register for a maximum of 45 credits in any session, of which 15 credits can be made up of new modules. Your total module registrations, including modules that you are waiting to repeat, may not exceed 60 credits.

Transfer between the MSc Project Management, MSc Project Management (Software Development) and MSc Project Management (Sustainability)

7.13

You may apply to transfer between the MSc Project Management, MSc Project Management (Software Development) and MSc Project Management (Sustainability) provided that:

- you have selected, or are still able to select, the modules on the qualification to which you wish to transfer, or alternatively, are willing to discard modules not in the relevant qualification (also see regulation 6.12).
- you are still within your maximum period of registration; and
- you are not yet eligible for the award for the qualification on which you are currently registered.

7.14

If you transfer between the MSc qualifications, we will credit you with any modules that you have already passed and any RPL that we previously awarded you provided they form part of the structure of the qualification you are transferring to.

7.15

If you have been awarded credit for a module, we will not allow you to resit it upon transfer.

7.16

Any failed attempts made will be carried forward and will be counted towards the number of attempts permitted at the same modules following transfer.

7.17

If you are permitted to transfer between MSc qualifications, all modules studied will be displayed on your final transcript when you receive your award. This includes modules which are discarded upon transfer.

8 Schemes of award

Marking criteria

See [Appendix C](#) for the Assessment Criteria.

8.1

All assessments will be marked according to the published Assessment Criteria.

Mark scheme

8.2

The following mark scheme is used for the MSc, PGDip and PGCert:

Mark range	Outcome
70% and over	Distinction
60% – 69%	Merit
50% – 59%	Pass
0% – 49%	Fail

8.3

To calculate the final grade for the qualification, the marks for modules are weighted equally, with the exception of the Project which is double weighted.

8.4

To be granted the qualification with Merit, your mean average mark for all modules must be between 60% and 69%;

8.5

To be granted the qualification with Distinction, your mean average mark for all modules must be 70% or above.

Date of award

8.6

The date of award will correspond to the year that the requirements for the award were satisfied.

Exit qualifications

8.7

If you have exhausted your permitted number of attempts at module(s) and are unable to complete the MSc or PGDip, you may be considered for an exit qualification of PGDip or PGCert (respectively). In such circumstances, you will need to have achieved the credits required for a PGDip (120 credits) or PGCert (60 credits) and have successfully completed the required modules for the qualification concerned.

8.8

If you have not completed the required modules, but you have completed the required number of credits for a PGDip (120 credits) or PGCert (60 credits), the Board of Examiners may, at its discretion, consider you for an exit qualification.

8.9

The exit qualification of PGDip or PGCert will be with effect from the year in which you satisfied the requirements for that award. Your registration will cease once the exit qualification has been granted.

Appendix A – Structure of the programmes

A detailed outline of the module syllabus is provided on the [Programme page](#), under structure and in the Programme Specification.

MSc Cyber Security

You must register for the CYM010 Cyber security foundations module in your first study session.

For the qualification of MSc Cyber Security you must pass the following compulsory modules (each worth 15 credits):

- CYM010 Cyber security foundations
- CYM020 Security management and governance
- CYM030 Cybercrime
- CYM040 Applied cryptography
- CYM050 Network and infrastructure security
- CYM060 Computer systems security
- CYM070 Software and application security
- CYM080 Security and behaviour change
- CYM090 Information privacy
- CYM100 Research methods for cyber security
- One compulsory Project module CYM500 (worth 30 credits):

Modules on this programme have an available resit opportunity.

All modules on this programme, are assessed by one element of assessment.

Students must have registered for CYM100 Research Methods for Cyber Security to register on CYM500 Project Module.

PGDip Cyber Security

You must register for the CYM010 Cyber security foundations module in your first study session.

For the qualification of PGDip Cyber Security you must pass

- Any eight modules (each worth 15 credits) chosen from:
 - CYM010 Cyber security foundations
 - CYM020 Security management and governance
 - CYM030 Cybercrime
 - CYM040 Applied cryptography
 - CYM050 Network and infrastructure security

- CYM060 Computer systems security
- CYM070 Software and application security
- CYM080 Security and behaviour change
- CYM90 Information privacy

Modules on this programme have an available resit opportunity.

All modules on this programme, are assessed by one element of assessment.

PGCert Cyber Security

You must register for the CYM010 Cyber security foundations module in your first study session.

For the qualification of PGCert Cyber Security you must pass

Any **four** modules (each worth 15 credits) chosen from:

- CYM010 Cyber security foundations
- CYM020 Security management and governance
- CYM030 Cybercrime
- CYM040 Applied cryptography
- CYM050 Network and infrastructure security
- CYM060 Computer systems security
- CYM070 Software and application security
- CYM080 Security and behaviour change
- CYM090 Information privacy

Modules on this programme have an available resit opportunity.

All modules on this programme, are assessed by one element of assessment.

MSc Project Management

You must register for the PMM010 Introduction to project management module in your first study session.

We recommend that you take the following modules in the order specified below, where possible:

PMM100 Accounting and finance **before** PMM060 Advanced finance and risk

For the MSc Project Management (Sustainability), we recommend that you take the following modules in the order specified below, where possible:

PMM160 Environmental sustainability for project management and PMM170 Social sustainability for project management **before** PMM180 Managing projects for sustainability

However these modules are not prerequisites and can be taken in the opposite order where necessary.

For the qualification of MSc Project Management you must pass:

- PMM010 Introduction to project management **
- PMM020 Operations and quality management *
- PMM030 Information technology project management *
- PMM040 International strategic technology management *
- PMM050 Advanced applied project management *
- PMM060 Advanced project funding, finance and risk management *
- PMM070 Corporate governance, ethics and sustainability *
- PMM080 International management of mega projects **
- PMM090 Managing and financing projects in the TV and film industries *
- PMM100 Accounting and finance **
- One compulsory Project module PMM500 (worth 30 credits)**:

* One element of assessment

** Two elements of assessment

PGDip Project Management

You must register for the PMM010 Introduction to project management module in your first study session.

For the qualification of PGDip Project Management, you must pass

Any **eight** modules (each worth 15 credits) chosen from:

- PMM010 Introduction to project management **
- PMM020 Operations and quality management *
- PMM030 Information technology project management *

- PMM040 International strategic technology management *
- PMM050 Advanced applied project management *
- PMM060 Advanced project funding, finance and risk management *
- PMM070 Corporate governance, ethics and sustainability *
- PMM080 International management of mega projects **
- PMM090 Managing and financing projects in the TV and film industries *
- PMM100 Accounting and finance **

* One element of assessment

** Two elements of assessment

PGCert Project Management

You must register for the PMM010 Introduction to project management module in your first study session.

For the qualification of PGCert Project Management you must pass

- Any **four** optional modules (each worth 15 credits) chosen from:
 - PMM010 Introduction to project management **
 - PMM020 Operations and quality management *
 - PMM030 Information technology project management *
 - PMM040 International strategic technology management *
 - PMM050 Advanced applied project management *
 - PMM060 Advanced project funding, finance and risk management *
 - PMM070 Corporate governance, ethics and sustainability *
 - PMM080 International management of mega projects **
 - PMM090 Managing and financing projects in the TV and film industries *
 - PMM100 Accounting and finance **

* One element of assessment

** Two elements of assessment

MSc Project Management (Software Development)

You must register for the PMM010 Introduction to project management module in your first study session.

For the qualification of MSc Project Management (Software Development) you must pass

- PMM010 Introduction to project management**
- PMM030 Information technology project management*

- PMM040 International strategic technology management*
- PMM050 Advanced applied project management*
- PMM070 Corporate governance, ethics and sustainability*
- PMM110 Managing people and organisations *
- PMM120 Software engineering **
- PMM130 Business intelligence systems **
- PMM140 Security management and governance **
- PMM150 Information systems and governance **
- One compulsory Project module (worth 30 credits):
 - PMM500 Project **

* One element of assessment

** Two elements of assessment

PGDip Project Management (Software Development) (exit qualification only)

For the qualification of PGDip Project Management (Software Development) you must pass

- The following **four** modules (each worth 15 credits):
 - PMM120 Software engineering **
 - PMM130 Business intelligence systems **
 - PMM140 Security management and governance **
 - PMM150 Information systems and governance **
- Any **four** optional modules chosen from (each worth 15 credits):
 - PMM010 Introduction to project management **
 - PMM030 Information technology project management *
 - PMM040 International strategic technology management *
 - PMM050 Advanced applied project management *
 - PMM070 Corporate governance, ethics and sustainability *
 - PMM110 Managing people and organisations *

* One element of assessment

** Two elements of assessment

MSc Project Management (Sustainability)

You must register for the PMM010 Introduction to project management module in your first study session.

For the qualification of MSc Project Management (Sustainability) you must pass

- PMM010 Introduction to project management **
- PMM020 Operations and quality management *
- PMM050 Advanced applied project management *
- PMM070 Corporate governance, ethics and sustainability *
- PMM080 International management of mega projects **
- PMM100 Accounting and finance **
- PMM110 Managing people and organisations *
- PMM160 Environmental sustainability for project management *
- PMM170 Social sustainability for project management *
- PMM180 Managing projects for sustainability *
- One compulsory Project module PM500 (worth 30 credits)**:

* One element of assessment

** Two elements of assessment

PGDip Project Management (Sustainability) (exit qualification only)

For the qualification of PGDip Project Management (Sustainability) you must pass

- The following **three** modules (each worth 15 credits):
 - PMM160 Environmental sustainability for project management *
 - PMM170 Social sustainability for project management *
 - PMM180 Managing projects for sustainability *
- Any **five** optional modules chosen from (each worth 15 credits):
 - PMM010 Introduction to project management **
 - PMM020 Operations and quality management *
 - PMM050 Advanced applied project management *
 - PMM070 Corporate governance, ethics and sustainability *
 - PMM080 International management of mega projects **
 - PMM100 Accounting and finance **
 - PMM110 Managing people and organisations *

* One element of assessment

** Two elements of assessment

Appendix B – Module descriptions

MSC Cyber Security

Cyber security foundations [CYM010]

This preliminary module, which must be taken before any of the other modules in the degree programme, introduces the broad range of concepts, challenges and technologies that underpin the provision of cyber security. Students will gain an understanding of what cyber security is, why it is important, and of the principal techniques and technologies that are used to achieve cyber security. Gaining an understanding of certain key elements of cyber security is necessary to be able to properly appreciate individual aspects of the subject in greater detail. This module is intended to give students this broad understanding so that they can set the ideas and skills developed in other modules into a broader context.

Assessment: One 3-hour long online examination (100%)

Security management and governance [CYM020]

This module aims to generate understanding and appreciation of the need for effective security management and the main currently used approaches to management in practice, including key standardised approaches and the fundamental importance of a risk-based approach. After completing the module, students will also understand key components of practical cyber security management, including the impact of law and regulation, the importance of auditing, and the key role of people in achieving cyber security. To help students understand the importance of effective security management, case studies of failures will be considered. This module plays a fundamental role in binding together all the other modules of the degree programme; it will address the issue of how to integrate the wide range of possible technologies and techniques for information security into a real-world Information Security Management System for an organisation.

Assessment: One 3-hour long online examination (100%)

Cybercrime [CYM030]

Cybercrime is a complex topic which affects individuals, societies and nations. There is an increasing manifestation of various types of cybercrime, which are either new or evolving. In order to understand the cybercrime environment, this module synthesises its dynamically changing economic, technical, political and psychological components. We explore the types of cybercrime, their manifestations, and their underlying mechanisms. Legal measures and challenges are explored, in view of the global nature of cybercrime. The evolution and the trends of cybercrime are analysed along various models adopted by criminals. Students will gain an understanding of the tools and approaches used in digital forensics and analyse real-world cases of cybercrime.

Assessment: One 3-hour long online examination (100%)

Applied cryptography [CYM040]

Cryptography provides the core toolkit that underpins most digital security technologies. An understanding of what cryptography does, and its limitations, is critical to developing a wider appreciation of the security of everyday digital applications. Since cryptography provides tools for atomic security services such as confidentiality and data integrity, an appreciation of cryptography also equips students with a fundamental understanding of what security means in cyberspace. Note that this module adopts a non-mathematical approach to cryptography, very much considering it from the perspective of what any good cyber security professional needs to know, and avoiding unnecessary technical details. In this module students will explore the role of cryptography in supporting digital security for everyday applications such as the internet, mobile phones, wireless networks and cryptocurrency. Students will develop an understanding of the functionality and purpose of the main cryptographic tools we use today. Students will learn how to make decisions about which cryptographic tools are most appropriate to deploy in specific settings.

Students will also explore the wider infrastructure surrounding cryptography and how this impacts the overall security of systems deploying cryptography.

Assessment: One 3-hour long online examination (100%)

Network and infrastructure security [CYM050]

Computer networking technologies and cyber-physical systems form the infrastructure of organisations and businesses, the internet and the web-based application ecosystem as well as critical national infrastructure. This module provides the foundations for us to understand the design and security of an organisations network, operational technologies, the internet and critical infrastructure. Computer networking provides the foundational connectivity services that are used for the world wide web, distributed computer applications and services, operations and manufacturing, and national infrastructure.

This module discusses vulnerabilities and the exploits that target computer networks and systems, the internet infrastructure and provides an introduction to modelling, assessing and testing networks and systems. Key aspects are explored through case studies and we complement the Computer systems security and the Software and application security modules.

Assessment: One 3-hour long online examination (100%)

Computer systems security [CYM060]

Computer systems form the infrastructure of organisations, the internet and the web-based application ecosystem. This module provides the foundations for us to understand the computer systems from the operating systems and security services. The module allows us to consider case studies from a wide range of deployments including the internet and cloud computing/infrastructure that provide the world wide web and distributed computing services.

Assessment: One 3-hour long online examination (100%)

Software and application security [CYM070]

Software and applications form the key business functionality in organisations. Building secure software is critical to the business and must be considered alongside secure computer systems and networks/infrastructure.

This module introduces the principles around software and applications, including security and the issues of malicious software. The module outlines techniques used for secure software development, principles of secure programming, most common software vulnerabilities that can be introduced during software development and concludes with discussion of the wider considerations and research direction for software and application security. Key aspects are explored through a number of topical case studies, such as web and cloud and this module complements the Computer systems security and Network and infrastructure security modules.

Assessment: One 3-hour long online examination (100%)

Security and behaviour and change [CYM080]

Security is heavily dependent on humans and their actions. These actions can either strengthen or diminish security levels. In this module students are introduced to the relationships between security and human behaviour, in multiple settings. We consider perceptions and practical implementations of security, on both individual and group/societal level. We utilise concepts from behavioural economics, decision-making and psychology, along with mechanisms to design and encourage changes in security behaviours. Finally, we examine the construct of a security culture and its relationships with norms, habits and awareness training.

Assessment: One 3-hour long online examination (100%)

Information privacy [CYM090]

This module will introduce students to the challenges facing any organisation in managing data privacy. Students will gain an understanding of the meaning of data privacy, and will examine the

serious legal constraints facing all organisations which make data privacy a key issue for cyber security risk management. Students will examine key governance matters, including privacy impact assessments, and the role of technology in supporting privacy will also be considered, including de-identification techniques for datasets, homomorphic encryption, and other privacy enhancing technologies. Finally, a privacy case study, such as e-voting, will be described.

Assessment: One 3-hour long online examination (100%)

Research methods for cyber security [CYM100]

This module provides students with an introduction to research methods in cyber security such that they can choose and investigate a research or professional topic for their project.

The project topic can be from across the CyBOK Knowledge Areas and professional frameworks such as the CIIsec Knowledge and Skills frameworks. The output from the module is a report that describes the project, provides an initial literature review and a project plan.

Assessment: Project description and plan (100%)

Project [CYM500]

This module provides the student an opportunity to undertake an individual dissertation project in the discipline of cyber security. A project is a major individual piece of work. It can be of academic or professional nature and aimed at acquiring and demonstrating understanding and the ability to reason about some specific area of cyber/information security. The project may be academic in nature or document the ability of organisations or individuals to deal with a practical aspect of cyber/information security. The project represents the key difference between the Postgraduate Diploma, which is a taught qualification, and the award of an MSc which incorporates this substantial piece of individual work.

Assessment: One research project (100%)

MSc Project Management

Introduction to project management [PMM010]

This module introduces students to the fundamental concepts, tools and techniques for planning and managing the delivery of projects. Combining practical examples with theory, students will explore the challenges of managing individual projects. Project management is about working concurrently on all aspects of the project in cross-functional teams, involving close links with all stakeholder groups.

Assessment: One online multiple choice question test (25%) and one 2,000-word essay (75%)

Operations and quality management [PMM020]

Operations and quality management form important parts of driving forward successful businesses. It is important for Project Managers and management staff to understand how businesses can work both efficiently and maintain quality. This module provides students with an understanding of operations, strategy, process and quality management within the overall context of the supply chain. It also provides a knowledge framework and principles of operations management using examples from manufacturing and service contexts.

Assessment: One 3,000-word essay (100%)

Information technology project management [PMM030]

The digital economy is growing at an exponential rate and more industries are focusing on the development of digital products and digital management information systems to aid their business processes. Information technology (IT) project management presents an essential backbone of any modern organisation as technology development and use are increasingly intertwined with organisational operations. This module aims to provide students with theoretical and practical knowledge of IT projects planning, estimation and evaluation. Students will be taught the differences between the traditional project management frameworks and the agile framework used in the majority of digital industries.

Assessment: One 3,000-word essay (100%)

International strategic technology management [PMM040]

In this module students will develop an understanding of the importance of linking technology to corporate strategy. Students will look at the tools and techniques that will enable middle and senior managers to develop, implement and manage technology, strategy and innovation at the business and corporate levels to meet the new competitive challenges of the knowledge-driven world economy in the 21st century. Students will examine the key characteristics of the converging scientific and technological revolutions, their impact on technological trajectories, convergence and discontinuities, and their implications for technology and corporate strategy in existing manufacturing and service sectors.

Assessment: One 3,000-word essay (100%)

Advanced applied project management [PMM050]

Applying rigid frameworks to different organisational cultures and very different situations can be problematic. This module seeks to analyse traditional project management frameworks and principles, using case studies and examples, to see where projects have failed and highlight the need to remain flexible when managing projects. Students will be provided with a knowledge of change management concepts which will enable them to critically analyse a project and select the correct tools and path forward to ensure successful delivery.

Assessment: One 3,000-word essay (100%)

Advanced project funding, finance and risk management [PMM060]

Understanding the bigger picture of how corporate financing is done is fundamental to building a project-based business. Building on the knowledge of accounting and finance, this module seeks to expand on this knowledge by looking closely at corporate finance and project funding practices to allow students to understand where and how projects are financed in a business context. It also looks closely at project risk and teaches the principles of financial risk management.

Assessment: One 3,000-word essay (100%).

Corporate governance, ethics and sustainability [PMM070]

In the 21st century the business world has been forced to face up to its responsibilities, principally by their customers and consumers, as well as governmental regulations and global accords. This module seeks to examine the nature and application of corporate governance in modern organisations while providing an understanding of corporate governance theories, including agency and stakeholder communications theories. The module also examines issues of corporate social responsibility and how these intersect and interact with ethical issues, sustainability, and sustainable development.

Assessment: One 3,000-word essay (100%)

International management of mega projects [PMM080]

Projects come in all shapes and sizes. The size of the project can often add to the complexity and larger projects are often more strategic in nature. This module seeks to focus on strategic infrastructure projects using case studies and real world examples to identify the challenges and trends of project delivery. This module also focusses on the international nature of projects including the impact on jurisdictional frameworks, the role of public and private sectors and a strategic view of the key drivers which impact on the project in the planning and appraisal stages.

Assessment: One online multiple choice question test (25%) and one 2,000-word essay (75%)

Managing and financing projects in the TV and film industries [PMM090]

In this module students will develop an understanding of how complex projects in the creative industries are managed and financed. They will look at real feature films and television shows, following a drama project from the birth of the story idea through to the cinema or television release. Students will consider the ways to manage such projects successfully and explore how tortuous and full of pitfalls the creative path can be.

Assessment: One 3,000-word essay (100%)

Accounting and finance [PMM100]

Accounting and finance is critical for the support of all business activities. This module introduces students to the fundamentals of practical accounting and finance, ensuring the students are given a good grounding in the subject area. The knowledge gained from this module will provide an important toolkit which will enable students to understand the performance of the wider business and its relationship to key internal and external decision making. Students will learn how financial information is prepared and communicated and how it is used as an effective tool for decision making and control. Students will also learn about analysing financial documents and the core understandings of the nature of investment decision making and management decision making.

Assessment: One online multiple choice question test (25%) and one 2,000-word essay

(75%)

Managing people and organisations [PMM110]

Managing people and organisations is critical to the success of all projects and businesses. This module is designed to give a valuable insight into management within organisations, critically evaluating the role of organisational structures as well as styles of management and leadership within companies. The module will provide clear insight into the working practices of managers and give students a clear understanding of the importance of time management and time pressures suffered by managers within different businesses.

The module will look to provide a clear idea of what managers do and what is meant by managerial 'effectiveness'. To do this, you need to be able to identify your roles as a manager and those factors which influence your effectiveness – and these lie not only within yourself but also in the working environment.

Assessment: One 3,000-word essay (100%)

Software engineering [PMM120]

Software engineering is the application of sound engineering principles and methods to software development. This module introduces students to the fundamental concepts and methods of software development and software engineering from both a theoretical and a real-world approach. The module aims to provide a holistic view of software engineering with particular emphasis on the engineering management aspects of the topic, e.g. software development process models such as Agile, software projects planning, requirements engineering and quality aspects of software development.

Assessment: One online multiple choice question test (25%) and one 2,000-word essay (75%)

Business intelligence systems [PMM130]

Business intelligence (BI) refers to the processes, methodologies, technologies, applications, practices, and skills that are used to leverage (gather, store, analyse) an organisation's internal and external information assets in order to support decision-making. This module equips students with the necessary conceptual and technological knowledge and skills that can be effectively applied in implementing and managing business intelligence systems. This module aims to provide students with:

- (a) a broad understanding of the information assets and the conceptual and technical architectures of information and business intelligence systems in modern organisations
- (b) the necessary background knowledge of, and skills to evaluate, acquire, design and implement business intelligence infrastructures and systems.

Assessment: One online multiple choice question test (25%) and one 2,000-word essay (75%)

Security management and governance [PMM140]

Cyber security management is the core discipline underlying effective real-world security. This module aims to generate understanding and appreciation of the need for effective security management and the main currently used approaches to management in practice, including key standardised approaches and the fundamental importance of a risk-based approach. After completing the module, students will also understand key components of practical cyber security management, including the impact of law and regulation, the importance of auditing, and the key role of people in achieving cyber security. To help students understand the importance of effective security management, case studies of failures will be considered.

Assessment: One online multiple choice question test (25%) and one 2,000-word essay (75%)

Information systems and governance [PMM150]

It is widely acknowledged that technology is at the core of modern organisations worldwide and there is an ever-increasing emphasis on applying technology systems and solutions to build organisational resilience, drive innovation, provide business value and enable organisational transformation. In this environment, good technical knowledge and skills alone do not suffice. IT professionals are more and more required to have a more holistic understanding of fundamental concepts and interrelationships between the business functions, operating environment, key governance processes and software systems. This module aims to provide students with: (a) a broad and systematic understanding of the functional, architectural, financial, acquisition and technological perspectives of modern information systems; and (b) the necessary knowledge of technology-related processes and of the associated real-world best practices.

Assessment: One online multiple choice question test (25%) and one 2,000-word essay (75%)

Environmental sustainability for project management [PMM160]

In order to manage projects to enhance sustainability, students need to understand how 'sustainability' as a concept has developed, and how different dimensions of sustainability may be in tension. This module provides students with this information and develops understanding through a focus on environmental aspects of sustainability. It gives students a grounding in key environmental issues, approaches to addressing those issues and the challenges of including environmental sustainability goals in organisational activity. This module complements the Social sustainability for project management module and both feed into the Managing projects for sustainability module.

Assessment: One 3,000-word essay (100%)

Social sustainability for project management [PMM170]

This module considers the social dimensions of sustainability. It provides students with an understanding of key social issues and draws on case studies to demonstrate the challenges of addressing those issues in public, private and third sector organisations. In order to manage projects to enhance sustainability, students need to understand the complexity of the concept, its measurement and governance. This module provides students with this information and develops understanding through a focus on social aspects of sustainability. It gives students a grounding in key social issues, approaches to addressing those issues and the challenges of including social sustainability goals in organisational activity. This module complements the Environmental sustainability for project management module and both feed into the Managing projects for sustainability module.

Assessment: One 3,000-word essay (100%)

Managing projects for sustainability [PMM180]

Managing projects for sustainability requires a holistic understanding of sustainability and the ability to apply that knowledge to the design and implementation of projects. This module allows students to apply knowledge about sustainability to the project management process. It will draw on case study material and will encourage students to develop an awareness of the trade-offs which decisions about sustainability often require. This module complements the material in the modules Environmental sustainability for project management and Social sustainability for project management.

Assessment: One 3,000-word essay (100%)

Project [PMM500]*

Understanding the methods needed to conduct research, in the context of business, is essential to any management-related degree programme. In this module, students will develop an understanding of the common quantitative and qualitative methodologies used when conducting research through the context of business. Students will look at relevant analytical, theoretical and contextual research, and learn to analyse and critically interpret empirical findings and data.

Students will consider how to prepare a research proposal and examine relevant frameworks for research ethics, reliability, and validity. The project is the culmination of the students study experience on an MSc programme. The project will bring together all of the knowledge and skills gathered during the taught modules and allows the student to showcase their academic talents in the context of the subject area of their choosing from their studies.

In the project, students will be able to develop their effectiveness in collecting, manipulating and interrogating information, its application and the production of reports – all of which are useful skills in future employment.

The project will tend to be based on an original research question posed by the student but may be a research question generated in partnership with either a sponsor company or the students employer/prospective employer.

Assessment: One 2,000-word research proposal (30%) and one 8,000-word final research report (70%)

Appendix C - Assessment criteria

This is an indicative description of expectations at each grade level. Overall grades will comprise qualitative and quantitative elements. The setting of questions, tasks and requirements and the accompanying marking scheme should take account of the criteria below.

% range	Grade Descriptor	Description
85 +	Outstanding Distinction	Work of outstanding quality, showing mastery of the subject matter with a highly developed and mature ability to analyse, synthesise and apply knowledge and theory. All objectives of the task are covered and work is free of errors. There is evidence of critical reflection and the work demonstrates originality of thought. Ideas are expressed with fluency and elegance. This work meets and exceeds the standard for distinction, as described in the 70-84 band, across all sub-categories of criteria: knowledge and understanding of subject; intellectual skills; capacity to solve more unusual or demanding scenarios involving application of deep understanding of the subject and its methods/techniques; research skills; use of research-informed literature and other scholarly practices.
70-84	Distinction	Produces work of exceptional standard, reflecting excellent understanding. Displays mastery of the subject matter, with notable critical awareness of current problems and/or new insights at forefront of the field. Shows excellent ability to select and apply appropriate and relevant methodologies/techniques/theories as well as the ability to evaluate methodologies critically. Deals with complex issues systematically and creatively, making excellent judgements. Conducts research highly effectively, using technical and/or professional skills as appropriate. Shows originality in application of knowledge and the ability to communicate at a very high level arguments, evidence and conclusions to diverse audiences.
60-69	Merit	Clear understanding of the subject area producing work with a well-defined focus. Shows some originality of ideas; appropriate use of analytical techniques; appreciation of methodology; critical analysis of data; evidence of independent reading; adequate referencing and professional bibliography; adequate structure and style; reasonably professional standard of presentation with some errors of spelling, punctuation or grammar. Shows understanding and critical awareness of current problems and/or new insights, much of which is at, or informed by, the forefront of the academic discipline, field of study or area of professional practice. Able to communicate very effectively arguments, evidence and conclusions to specialist and non-specialist audiences.
50-59	Pass	Demonstrates a sound general knowledge and understanding of material and subject area; Shows limited originality of ideas; straight forward application of analytical techniques; limited commentary on methodology; limited critical analysis of data; limited evidence of independent reading; adequate referencing and adequate bibliography; adequate structure and style; moderately professional standard of presentation with errors of spelling, punctuation or grammar. Able to communicate effectively with a given audience. Work shows a grasp of relevant concepts and material, but with some errors, gaps or areas of confusion. Only the basic requirements of the work are covered. There is a heavy reliance on course materials and little evidence of additional reading.

% range	Grade Descriptor	Description
40-49	Fail	Demonstrates limited understanding and lacks the core knowledge of the subject area; lacking originality of ideas; limited application of analytical techniques; lacking commentary on methodology; limited critical analysis of data, little evidence of independent reading; adequate referencing and adequate bibliography; adequate structure and style; poor to moderate standard of presentation with errors of spelling, punctuation or grammar. Offers some appropriate analysis, but with some significant inconsistencies which affect the soundness of argument and/or conclusions. Demonstrates very limited critical ability producing work that is too descriptive.
0-39	Fail	Demonstrates significant weakness in the knowledge base and understanding of the subject area; simply reproducing knowledge without evidence of understanding. Shows few original ideas; limited application of analytical techniques; limited understanding of methodology; lacks commentary on methodology; no critical analysis of data; poor, inconsistent analysis; very little or no evidence of independent reading; very poor referencing and poor bibliography; poor structure and style; poor standard of presentation with significant errors of spelling, punctuation or grammar.