

Programme Regulations: 2025/26**Programme Title: Degree of Master of Science in Advanced Computer Science - Code: 5178F/P****Notes:**

- (i) *These programme regulations should be read in conjunction with the University's Taught Programme Regulations.*
- (ii) *A compulsory module is a module which a student must take.*
- (iii) *A core module is a module a student must pass.*
- (iv) *A core module for PSRB accreditation is a module a student is required to obtain accreditation.*
- (v) *All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.*
- (vi) *All optional modules are offered subject to the constraints of the timetable and to any restrictions on the number of students who may be taught on a particular module. Not all modules may be offered in all years and they are listed subject to availability.*
- (vii) **Note – 5178P is suspended for 2025/26 entry. Students currently registered on part-time year 1 will continue part-time year 2 for 2025/26.**

1. Programme structure:

- (a) The programme is available for full-time study only and part-time students completing in 2025/26.
- (b) The period of study for full-time mode shall be 1 year starting in September.
- (c) The programme comprises modules to a credit value of 180.

(d) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Core for PSRB Accreditation</i>	<i>Core for Outcomes</i>	<i>Level</i>	<i>Mode</i>
CSC8114 ¹	Research Methods and Group Project in Advanced Computer Science	20		20				7	Block
CSC8499	Project and Dissertation for MSc in Advanced Computer Science	90		30	60	Core	Core	7	

¹Candidates with the necessary prerequisites may at the end of Semester 1 seek DPD permission to replace CSC8114 with either CSC8208 or CSC8113 below:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Core for PSRB Accreditation</i>	<i>Core for outcomes</i>	<i>Level</i>	<i>Mode</i>
CSC8113 ¹	Research Methods and Group Project in Cloud Computing	20		20				7	Block
CSC8208	Research Methods and Group Project in Security and Resilience	20		20				7	Block

(e) All candidates shall select TWO of the following optional modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Core for PSRB Accreditation</i>	<i>Core for outcomes</i>	<i>Level</i>	<i>Mode</i>
CSC8103	Distributed Algorithms	10	10					7	Block
CSC8202	Information Security and Cryptography	10	10					7	Block
CSC8216	Risk & Trust Management	10	10					7	Block
CSC8404	Advanced Programming in Java	10	10					7	Block
CSC8626	Data Visualization	10	10					7	Block

(f) All candidates shall select TWO 10 credit modules from the following list or ONE 20 credit module: *Note: Students selecting CSC8104 must also select CSC8404.

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Core for PSRB Accreditation</i>	<i>Core for outcomes</i>	<i>Level</i>	<i>Mode</i>
CSC8104	Enterprise Software and Services*	10	10					7	Block
CSC8112	Internet of Things	10	10					7	Block
CSC8214	Systems Security	20	20					7	Block
CSC8701	Model-Based Systems Engineering	10	10					7	Block

(g) All candidates shall select TWO modules from the following list.

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Core for PSRB Accreditation</i>	<i>Core for outcomes</i>	<i>Level</i>	<i>Mode</i>
CSC8110	Cloud Computing	10	10					7	Block
CSC8111	Machine Learning with Project	10	10					7	Block
CSC8204	Secure Software Development	10	10					7	Block

(h) All candidates shall select ONE of the following optional modules: *Note: Students selecting CSC8637 must also have selected CSC8111.

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Core for PSRB Accreditation</i>	<i>Core for outcomes</i>	<i>Level</i>	<i>Mode</i>
CSC8101	Engineering for AI	10		10				7	Block
CSC8611	Human AI Interactions and Futures	10		10				7	Block
CSC8637*	Deep Learning	10		10				7	Block
CSC8646	Generative AI for Business	10		10				7	Block

2. Assessment methods

Details of the assessment pattern for each module are explained in the module outline.

3. Other

This programme is designed to produce graduates who will be expected to be equally capable in theoretical and practical aspects of their subject and it is essential that only students of equally high calibre in both aspects of the programme are eligible for merit and distinction awards. Therefore, the regulations are as follows:

Course Requirements

A number of areas in which specific regulations have been defined for this programme, and approved by the Faculty Learning, Teaching and Student Experience Committee, are documented below, and in these areas these provisions take precedence over other University regulations.

Progression within the MSc degree in Advanced Computer Science

Two assessed components comprise the MSc degree in Advanced Computer Science:

- Component 1: 70 credits of optional modules and a compulsory 20-credit group project and research methods module.
- Component 2: 90-credit individual project with dissertation module.

In order to be permitted to start Component 2 a candidate must:

- obtain a weighted average mark for Component 1 of at least 50,
- and have passed at least 70 credits in Component 1.

Progression to Component 2 can only occur when the above progression thresholds are met.

Award of the MSc degree in Advanced Computer Science

To obtain the MSc degree, candidates must satisfy the examiners in both assessed components as follows.

- A student will be recommended for the *award of MSc with Distinction* if they have achieved a pass mark in 180 credits with a weighted average mark across all 180 credits of at least 70 and have a Component 2 mark of at least 70.
- A student will be recommended for the *award of MSc with Merit* if they have achieved a pass mark in 180 credits with a weighted average mark across all 180 credits of at least 60 and have a Component 2 mark of at least 60.
- A student will be recommended for the *award of MSc* if they have achieved a pass mark in at least 160 credits with a weighted average mark across all 180 credits of at least 50.