Programme Regulations: 2024/25

Programme Titles:
Degree of Master of Science in Data Science (with Specialism in Statistics) - Code 4870 F/P
Postgraduate Diploma in Data Science (with Specialism in Statistics) - Code: 3527 F/P
Postgraduate Certificate in Data Science (with Specialism in Statistics) – Code: 3177 F/P

Notes

(i) These programme regulations should be read in conjunction with the University's Taught Program Regulations.

(ii) A compulsory module is a module which a student must take.

(iii) 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.

(iv) All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.

1. Programme Structure

(a) The programmes are available for study in both full-time and part-time modes.

(b) The period of study for full-time mode shall be 1 year for Masters and eight months for Postgraduate Diploma starting in September. The period of study for part-time mode shall normally be 2 years starting in September. The period of study for Postgraduate Certificate for full-time mode shall be 8 months and part-time shall normally be 18 months.

(c) The Masters programme comprises modules to a credit value of 180. The Postgraduate Diploma programme comprises modules to a credit value of 120. The Postgraduate Certificate programme comprises modules to a credit value of 60.

(d) Candidates on the Masters and Postgraduate Diploma programmes shall take the following compulsory modules and candidates on the Postgraduate Certificate shall take optional modules to a value of 60 credits from the following:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Credits Sem 3*	*Level*	*Type*	*Mode*
CSC8101	Engineering for AI	10		10		7		Block
CSC8621	Computing Foundations of Data Science	10	10			7		Block
CSC8626	Data Visualization	10	10			7		Block
CSC8631	Data Management and Exploratory Data Analysis	10	10			7		Block
CSC8632	Data Science in the Wild (Group Project)	10		10		7		Block
CSC8635	Machine Learning with Project	10	10			7		Block
MAS8382	Time Series Data	10	10			7		Block
MAS8404	Statistical Learning for Data Science	10	10			7		Block
MAS8384	Bayesian Methodology	10		10		7		Block

(e) Candidates shall select an optional module from the following:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Credits Sem 3*	*Level*	*Mode*
CSC8636	Complex Data Visualization	10		10		7	Block
CSC8637	Deep Learning	10		10		7	Block

(f) Postgraduate Diploma candidates shall take the following compulsory module:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Credits Sem 3*	*Level*	*Type*	*Mode*
MAS8410	Diploma Project and Dissertation for Data Science	20		20		7		Block

(g) Master of Science candidates shall take the following compulsory module:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Credits Sem 3*	*Level*	*Type*	*Mode*
MAS8408	Project and Dissertation for Data Science	80		20	60	7		Linear

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 Data Science (with Specialism in Statistics)

Two assessed components comprise the MSc degree in Data Science (with Specialism in Statistics):

- Component 1: Nine 10-credit modules, and a 10-credit group project module.
- Component 2: 80 credits 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 failed no more than 20 credits.

Award of the MSc degree in Data Science (with Specialism in Statistics)

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.