FACULTY OF SCIENCE

DEPARTMENT OF MATHEMATICS AND STATISTICS

QUANTITATIVE FINANCE

Master of Science in Quantitative Finance Postgraduate Diploma in Quantitative Finance Postgraduate Certificate in Quantitative Finance

These regulations are to be read in conjunction with the <u>General Academic Regulations</u> - Postgraduate Taught Degree Programme Level.

Admission

1. See General Academic Regulations - Postgraduate Taught Degree Programme Level.

Duration of Study

2. See General Academic Regulations - Postgraduate Taught Degree Programme Level.

Mode of Study

3. The programme is available by full-time study only.

Curriculum

- 4. All students shall undertake an approved curriculum as follows:
 - i. for the Postgraduate Certificate no fewer than 60 credits
 - ii. for the Postgraduate Diploma no fewer than 120 credits
 - iii. for the degree of MSc no fewer than 180 credits including three research reports or a dissertation.

Compulsory Modules

Module Code	Module Title	Level	Credits
AG910	Principles of Finance	5	20
AG912	International Financial Markets and Banking	5	20
MM907	Foundations of Mathematical and Statistical Finance	5	20
CS982	Big Data Technologies	5	20
MM908	Research Project*	5	40

^{*}For the degree of MSc only

Optional Modules

60 credits with students choosing 20 credits of modules from each of Lists A, B and C.

List A

Module Code	Module Title	Level	Credits
AG916	Behavioural Finance	5	10

AG924	Portfolio Theory and Management	5	10
AG925	Derivatives and Treasury Management	5	20
AG937	Fixed Income Analysis	5	20

List B

Module Code	Module Title	Level	Credits
MM917	Networks in Finance	5	10
MM905	Financial Econometrics	5	10
MM904	Financial Stochastic Processes	5	10

List C

Module Code	Module Title	Level	Credits
CS971	Evolutionary Computation for Finance	5	20
CS952	Database and Web Systems Development	5	20
CS985	Machine Learning for Data Analytics	5	20

With the approval of the Programme Director, students may substitute other Level 5 modules offered by the University for one or more of the optional modules listed above.

Examination, Progress and Final Assessment

- 5. See General Academic Regulations Postgraduate Taught Degree Programme Level.
- 6. The final award will be based on performance in the examinations, coursework and the dissertation or research projects where undertaken.

Award

- 7. **Degree of MSc**: In order to qualify for the award of the degree of the MSc in Quantitative Finance, a candidate must have performed to the satisfaction of the Board of Examiners and must have accumulated no fewer than 180 credits, of which 40 must have been awarded in respect of either the dissertation or the research project MM908.
- 8. **Postgraduate Diploma**: In order to qualify for the award of the Postgraduate Diploma in Quantitative Finance, a candidate must have accumulated no fewer than 120 credits from the taught modules of the programme.
- 9. **Postgraduate Certificate**: In order to qualify for the award of the Postgraduate Certificate in Quantitative Finance, a candidate must have accumulated no fewer than 60 credits from the taught modules of the programme.