

STRATHCLYDE BUSINESS SCHOOL

DEPARTMENT OF MANAGEMENT SCIENCE

DATA ANALYTICS

Master of Science in Data Analytics
Postgraduate Diploma in Data Analytics
Postgraduate Certificate in Data Analytics

These regulations are to be read in conjunction with the [General Academic Regulations - 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 programmes are available by full-time, part-time study and by distance learning.

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 a dissertation.

Compulsory Modules

Module Code	Module Title	Level	Credits
CS989	Big Data Fundamentals	5	10
MM964	Foundation of Statistics	5	10
MM916	Data Analytics in R	5	20
MS985	Business and Decision Modelling	5	10
MS987	Optimisation for Analytics	5	10

***Students undertaking the Postgraduate Certificate by distance will take the following compulsory modules:**

Module Code	Module Title	Level	Credits
CS818	Big Data Fundamentals	5	10
CS817	Big Data Tools and Techniques	5	10
MM952	Data Analytics in R	5	20

MS817	Business and Decision Modelling	5	10
MS818	Optimisation for Analytics	5	10

Students for the Postgraduate Diploma and the degree of MSc in addition shall undertake:

Compulsory Modules

Module Code	Module Title	Level	Credits
MS984	Data Analytics in Practice	5	20

Optional Modules

No fewer than 40 credits from the list below:

Module Code	Module Title	Level	Credits
CS990	Database Fundamentals	5	10
CS983	Evolutionary Computation for Finance 1	5	10
CS984	Evolutionary Computation for Finance 2	5	10
CS986	Fundamentals of Machine Learning for Data Analytics	5	10
CS987	Advanced Machine Learning for Data Analytics	5	10
MM905	Financial Econometrics	5	10
MM915	Bayesian Spatial Statistics	5	10
MM960	Statistical Machine Learning	5	10
MM962	Data Dashboards with R Shiny	5	10
MS986	Stochastic Modelling for Analytics	5	10
MS843	Simulation for Business Decision Making	5	10
MS927	Risk Analysis & Management	5	10
MS847	Business Information Systems Design & Implementation	5	10

Students for the MSc only:

Module Code	Module Title	Level	Credits
MS983	Dissertation in Data Analytics	5	60

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, the dissertation (in the case of the MSc) and, if required, in an oral examination.

Award

7. **Degree of MSc:** In order to qualify for the award of the degree of MSc in Data Analytics, a candidate must have accumulated no fewer than 180 credits, of which 60 must have been awarded in respect of the dissertation.
8. **Postgraduate Diploma:** In order to qualify for the award of the Postgraduate Diploma in Data Analytics, 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 Data Analytics, a candidate must have accumulated no fewer than 60 credits from the taught modules of the programme.