FACULTY OF SCIENCE

DEPARTMENT OF MATHEMATICS AND STATISTICS

MEDICAL STATISTICS WITH PROFESSIONAL PRACTICE

Master of Science in Medical Statistics with Professional Practice
Postgraduate Diploma in Medical Statistics with Professional Practice
Postgraduate Certificate in Medical Statistics with Professional Practice

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

Admission

1. The General Academic Regulations - Postgraduate Taught Degree Programme Level shall apply subject to the following requirements. Applicants shall possess:

    i. a first or second class Honours degree from a United Kingdom university; or
    ii. a qualification deemed by the Head of Department acting on behalf of Senate to be equivalent to (i) above.

Duration of Study

2. The General Academic Regulations - Postgraduate Taught Degree Programme Level shall apply.

Mode of Study

3. The programme is available by online part-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 a research project

Compulsory Modules

All the compulsory modules listed below plus 10 credits from List A

Module Code	Module Title	Level	Credits
MM922	Foundations of Probability and Statistics	5	20
MM923	Data Analytics in R	5	20
MM970	Experimental Design	5	10
MM971	Multivariate Analysis	5	10
MM927	Medical Statistics	5	20
MM9XX	Work based Project and Portfolio	5	60

List A

Module Code	Module Title	Level	Credits

MM925	Quantitative Risk Analysis	5	10
MM928	Spatial Statistics	5	10

In exceptional circumstances, where a student has already been awarded credit for a corresponding Strathclyde Level 4 module, a maximum of 20 credits at Level 5 may be substituted subject to approval by the Programme Director (with the exception of MM9XX which cannot be substituted).

Optional Modules

No fewer than 30 credits excluding those previously chosen from List A

Module Code	Module Title	Level	Credits
MM929	Effective Statistical Consultancy	5	10
MM926	Survey Design and Analysis	5	10
MM925	Quantitative Risk Analysis	5	10
MM928	Spatial Statistics	5	10
MM961	Data Dashboards with RShiny	5	10
CS817	Big Data Tools and Techniques	5	10
CS818	Big Data Fundamentals	5	10
MM965	Statistical Machine Learning	5	10
MM968	Deep Learning	5	10

Not all optional modules on this list will be available in each academic year. Please check your programme handbook for confirmation of which optional modules will run.

With the approval of the Programme Director, students may substitute other Level 5 optional modules offered by the University up to a maximum of 40 credits.

Examination, Progress and Final Assessment

5. The General Academic Regulations - Postgraduate Taught Degree Programme Level shall apply.

6. The final award will be based on performance in the examinations, coursework and the project where undertaken.

Award

7. **Degree of MSc**: In order to qualify for the award of the degree of the MSc in Medical Statistics with Professional Practice, a candidate must have performed to the satisfaction of the Board of Examiners and must have accumulated no fewer than 180 credits, of which 60 must have been awarded in respect of the project (MM9XX).

8. **Postgraduate Diploma**: In order to qualify for the award of the Postgraduate Diploma in Medical Statistics with Professional Practice, a candidate must have accumulated no fewer than 120 credits from the modules of the programme.

9. **Postgraduate Certificate**: In order to qualify for the award of the Postgraduate Certificate in Medical Statistics with Professional Practice, a candidate must have accumulated no fewer than 60 credits from the modules of the programme.