1. **Do you Title of the module**

MAST9750 - Short Dissertation (Statistics)

1. **School or partner institution which will be responsible for management of the module**

School of Mathematics, Statistics and Actuarial Science

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

Level 7

1. **The number of credits and the ECTS value which the module represents**

30 credits (15 ECTS)

1. **Which term(s) the module is to be taught in (or other teaching pattern)**

Autumn and Summer

1. **Prerequisite and co-requisite modules**

None

1. **The programmes of study to which the module contributes**

MSc in Statistics with Industrial Placement and the MSc in Statistics with Finance with Industrial Placement

1. **The intended subject specific learning outcomes.  
   On successfully completing the module students will be able to:**

8.1. demonstrate awareness of the relationship of the material to background material and to more advanced material;

8.2. write a coherent account of an area of Statistics, with particular reference to applications in Finance, if appropriate;

8.3. perform statistical analyses that show the depth of student understanding of the statistical methods relevant to the topic;

8.4. present complex analyses and draw appropriate conclusions with clarity and accuracy;

8.5. demonstrate understanding of theoretical and practical aspects of analysing statistical data;

8.6. Use the text-processing software LaTeX to prepare presentation slides and to present their dissertation.

1. **The intended generic learning outcomes.  
   On successfully completing the module students will be able to:**

9.1. apply a logical, mathematical approach to solving complex problems, at an advanced level;

9.2. work with relatively little guidance, and be able to exercise initiative;

9.3. utilise advanced organisational, computer and study skills, and be able to adapt them to new situations;

9.4. produce a dissertation that effectively communicates the material to the reader;

9.5. demonstrate an ability to evaluate research work critically;

9.6. select appropriate material from complex source texts, either recommended to or found by the student;

1. **A synopsis of the curriculum**

The module enables students to undertake an independent piece of work in a particular area of statistics, or statistical finance/financial econometrics and to write a coherent account of the material. There is no specific syllabus for this module.

1. **Reading list (Indicative list, current at time of publication. Reading lists will be published annually)**

There is no general reading list for this project-based module. Literature relevant to specific project topics will be recommended by individual supervisors.

1. **Learning and teaching methods**

Total contact hours: 12

Private study hours: 288

Total study hours: 300

1. **Assessment methods**
   1. Main assessment methods

Presentation: 10 minutes 20%

Written dissertation: approximately 20-25 pages 80%

13.2 Reassessment methods

Like-for-like

1. **Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section12) and methods of assessment (section 13)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *8.5* | *8.6* | *9.1* | *9.2* | *9.3* | *9.4* | *9.5* | *9.6* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |  |  |  |
| Private Study | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Computer classes |  |  |  |  |  | **x** |  |  |  |  |  |  |
| Meetings with supervisor | **x** |  |  |  | **x** |  | **x** |  |  |  | **x** |  |
| **Assessment method** |  |  |  |  |  |  |  |  |  |  |  |  |
| Assessment |  |  |  |  |  | **x** |  |  |  |  |  |  |
| Written Dissertation | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Presentation | **x** | **x** |  | **x** | **x** | **x** | **x** |  | **x** |  | **x** |  |

1. **Inclusive module design**

The School recognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

1. **Campus(es) or centre(s) where module will be delivered**

Canterbury

1. **Internationalisation**

This module is based on mathematical principles. Mathematics and statistics are international languages with techniques developed and refined by mathematicians and statisticians across the globe. Mastery of the subject-specific learning outcomes will equip students to apply the techniques of this module in a wide range of international contexts. The project supervisors are drawn from the School of Mathematics, Statistics and Actuarial Science, which includes many members of staff with international experience of teaching and research collaboration.

The support SMSAS provides to its students is also internationally attuned given our international student body.

**FACULTIES SUPPORT OFFICE USE ONLY**

**Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

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| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
| 23/01/2019 | Major | September 2019 | 5, 8, 9, 12, 13, 14 |  |
| 25/07/2023 | Minor | September 2023 | 13 |  |