1. KentVision Code and title of the module

MAST7230 Data Science Project Methods

# Division and School/Department or partner institution responsible for the module

CEMS/SMSAS

# The level of the module

Level 7

# The number of credits and the ECTS value which the module represents

5 credits (2.5 ECTS)

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

Any term to allow for a January start

# Delivery of the module

* 1. **Mode of study**

In person

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

Canterbury

# Prerequisite and co-requisite modules and/or any module restrictions

None

# The course(s) of study to which the module contributes

* 1. **The module is compulsory for the following courses**

MSc in Data Science, MSc in Data Science with an Industrial Placement

* 1. **The module is optional for the following courses**

None

# A synopsis of the curriculum

This module guides students in planning their master’s project and provides them with an understanding of the process for carrying out that project. The students will start to identify the objectives for the project, the prior research that has been carried out in the area, the probable methodology, and how it may be applied. The module will provide transferable skills such as critical review and will consider the ethical implications of the project.

# Contact Hours

Private Study: 44

Contact Hours: 6

Total: 50

# Learning and teaching methods

Contact hours will include workshops on various aspects of developing a master’s level project in data science.

# The intended subject specific learning outcomes

On successfully completing the module students will be able to:

1. Understand the typical lifecycle of a master’s project and all the activities associated with it.
2. Read and critically review research papers.
3. Describe their findings in a reasoned way.
4. Demonstrate an understanding of ethical issues related to the project.

# The intended generic learning outcomes

On successfully completing the module students will be able to:

1. Manage and organise their time.
2. Communicate effectively.

# Assessment Strategy

* 1. **Main assessment methods**

Project plan (3-4 pages) – 100%

* 1. **How the assessment methods outlined above fit with the course assessment strategy?**

The course prepares students to become practicing data scientists. This role places a strong emphasis on the application of advanced skills to large, sometimes messy, sets of data and the ability to communicate technical information effectively to stakeholders. The assessment methods used in this module will help the students to consolidate strong skills in Data Science. The assessment methods complement those used in other modules, building on experience gained in the Stage 1 modules.

* 1. **Reassessment methods**

100% coursework. The plan will be revised and resubmitted.

# Mapping of Learning Outcomes

Map of module learning outcomes (sections 12 & 13) to learning and teaching methods (section 11) and methods of assessment (section 14).

* 1. **Module learning outcomes against learning and teaching methods**

| **Module learning outcome** | 12.1 | 12.2 | 12.3 | 12.4 | 13.1 | 13.2 |
| --- | --- | --- | --- | --- | --- | --- |
| Private study | **X** | **X** | **X** | **X** | **X** | **X** |
| Taught sessions | **X** | **X** | **X** | **X** | **X** | **X** |

* 1. **Module learning outcomes against assessment methods**

| **Module learning outcome** | 12.1 | 12.2 | 12.3 | 12.4 | 13.1 | 13.2 |
| --- | --- | --- | --- | --- | --- | --- |
| Project plan | **X** | **X** | **X** | **X** | **X** | **X** |

# Reading list

There is no specific reading list for this module.

# Inclusive module design

The Division 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

# University Division responsible for the course CEMS

**MODULE RECORD**

**All revisions for this module are recorded in the table below for student and staff information.**

| **Date approved** | **New/ Material/ Major/ Minor revision** | **Start date of delivery of this version** | **Applies to new cohorts and/ or existing students**  | **Sections revised (if applicable)** |
| --- | --- | --- | --- | --- |
| 09/02/2024 | NEW | 2024/2025 | New |  |
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