

Programme Specification

MSc Climate Change and Artificial Intelligence (full-time)

PFTZCCAIXXHM

MSc Climate Change and Artificial Intelligence (part-time)

PPTZCCAIXXHM

For students entering in 2022/23

This document sets out key information about your Programme and forms part of your Terms and Conditions with the University of Reading.

Awarding Institution	University of Reading
Teaching Institution	University of Reading
Length of Programme	MSc Climate Change and Artificial Intelligence (full-time) - 12 months MSc Climate Change and Artificial Intelligence (part-time) - 24 months
Accreditation	N/A
Programme Start Dates	September 2022

Programme information and content

This MSc course will provide future societal leaders, including within the IT industry, with an understanding of the important topics of climate change and artificial intelligence, two areas which are here brought together in a unique programme. Through a strong experiential learning environment, combined with modules in management and in values and ethics, students will learn when and how Artificial Intelligence and Machine Learning can be useful for climate change problems, and how to interpret what they are being told when it has been used, in order to make better decisions.

Module information

The programme comprises of 180 credits, allocated across a range of compulsory and optional modules. Compulsory modules are listed.

Compulsory modules

Module	Name	Credits	Level
CSMAD21	Applied Data Science with Python	20	M
CSMAI21	Artificial Intelligence and Machine Learning	20	M
MMM048	Managing People and Organisations	20	M
MTMC01	Foundations of Statistical Inference	10	M
MTMC02	Professional Skills in Data Science	10	M
MTMCC	The Science of Climate Change (M-level)	10	M
MTMCW01	Causal Inference and Decision-making	10	M
MTMCW02	Climate Change: Values, Ethics and Justice	10	M
MTMG50	Climate Services and Climate Impact Modelling	10	M
MTMG99	Dissertation Project	60	M

Part-time or flexible modular arrangements

Students who wish to do the MSc programme part time over two years should contact the Programme Director to discuss details.

Additional costs of the programme

None anticipated.

Optional modules

N/A

Placement opportunities

N/A

Study abroad opportunities

N/A

Teaching and learning delivery

You will be taught through lectures, tutorials, workshops and laboratory classes. Assessment takes a variety of formats; tutorials are assessed by submission of written work prior to the date of the tutorial meeting, Laboratory classes are primarily assessed via a write-up of the laboratory work and results, lecture material for most modules is assessed via an end of year examination. The assessment of some modules may include oral presentations, group work and team work exercises.

Total study hours for your programme will be 1800 hours. The contact hours for your programme will depend upon your module combination; an average for a typical set of modules on this programme is – 350 hours. In addition to your scheduled contact hours, you will be expected to undertake guided independent study. Information about module contact hours and the amount of independent study which a student is normally expected to undertake for a module is indicated in the relevant module description.

Accreditation details

N/A

Assessment

The programme will be assessed through a combination of written examinations, coursework (including class tests). Further information is contained in the individual module descriptions.

Progression

N/A

Classification

The University's taught postgraduate marks classification is as follows:

Mark Interpretation

70 - 100% Distinction

60 - 69% Merit

50 - 59% Good standard (Pass)

Failing categories:

40 - 49% Work below threshold standard

0 - 39% Unsatisfactory Work

For Masters Degree

To qualify for **Distinction**, students must

- i. gain an overall average of 70 or more over 180 credits; and
- ii. a mark of 60 or more for the dissertation; and
- iii. the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iv. students must not have any mark below 40.

To qualify for **Merit**, students must

- i. gain an overall average of 60 or more over 180 credits; and
- ii. a mark of 50 or more for the dissertation; and
- iii. the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iv. students must not have any mark below 40.

To qualify for **Passed**, students must

- i. gain an overall average of 50 or more over 180 credits; and
- ii. a mark of 50 or more for the dissertation; and
- iii. the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iv. the total credit value of all modules marked below 40 must not exceed 30 credits.

For PG Diploma

To qualify for **Distinction**, students must

- i. gain an overall average of 70 or more over 120 credits; and
- ii. In addition, the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iii. students must not have any mark below 40.

To qualify for **Merit**, students must

- i. gain an overall average of 60 or more over 120 credits; and
- ii. the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iii. students must not have any mark below 40.

To qualify for **Passed**, students must

- i. gain an overall average of 50 or more over 120 credits; and
- ii. the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iii. the total credit value of all modules marked below 40 must not exceed 30 credits.

For PG Certificate

To qualify for a **Postgraduate Certificate**, students must

- i. gain an overall average of 50 or more over 60 credits; and
- ii. the total credit value of all modules marked below 40 must not exceed 10 credits.

For further information about your Programme please refer to the Programme Handbook and the relevant module descriptions, which are available at <http://www.reading.ac.uk/module/>. The Programme Handbook and the relevant module descriptions do not form part of your Terms and Conditions with the University of Reading.

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2 March 2022

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