Programme Specification

MSc Renewable Energy: Technology and Sustainability (full-time)	PFTZRENETSHM
MSc Renewable Energy: Technology and Sustainability (flexible-modular)	PPTZRENETSFM

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 Renewable Energy: Technology and Sustainability (full-time) - 12 months MSc Renewable Energy: Technology and Sustainability (flexible-modular) - 24 months
Accreditation	Chartered Institute of Building Services Engineers; Energy Institute
Programme Start Dates	September for full-time and flexible-modular January starts available for flexible-modular only, with a minimum period of 33 months

Programme information and content

The aim is to study renewable energy and sustainable technologies, as well as carbon management and energy use in the built environment. The programme covers rapidly evolving fields that are vitally relevant to how society develops in the 21st Century.

Module information

The programme comprises of 180 credits, allocated across a range of compulsory and optional modules. Compulsory modules are listed.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
CEM10A	Research skills	20	M
CEM10B	Research dissertation	40	M
CEM224	Carbon Management	10	M
CEM233	Urban Energy Systems	10	M
CEM235	Engineering Project Management	10	M
CEM241	Energy and the Environment	10	M
CEM319	Life Cycle Assessment	10	M

Full-time students only:

CEM160	Renewable Energy Systems	40	7

Flexible-modular students only:

CEM16A	Renewable Energy Systems A	20	7
CEM16B	Renewable Energy Systems B	20	7

The remaining credits will be taken from the list of optional modules from the School of Built Environment for this programme. The phrase ‘compulsory modules’ relates to core modules that define the MSc qualification.

Part-time or flexible modular arrangements

This programme may be taken on a flexible-modular basis, normally over 24 months for September starts or 33 months for January starts, up to a maximum of 63 months. January starts involve spreading the period of study over three academic years, with a view to graduating in December of the third year. All 10-credit modules will be provided in one-week attendance periods at the University.

Additional costs of the programme

Where applicable, core textbooks recommended for student purchase may cost around £15 to £25 per module; there may be other books/resources which you would find it convenient to buy. Some books may be available second-hand, which will reduce costs. A wide range of resources to support your curriculum, including textbooks, more specialist studies, and electronic resources, are available through the library.

Printing and photocopying facilities are available on campus at a cost per A4 page of £0.05 (black and white) and £0.30 (colour). Essential costs in this area will be low as most coursework is submitted electronically.

Costs are indicative and may vary according to optional modules chosen and are subject to inflation and other price fluctuations.

The estimates were calculated in 2021.

Optional modules

The optional modules available can vary from year to year. An indicative list of the range of optional modules for your Programme is set out in the Further Programme Information. Details of any additional costs associated with the optional modules, will be made available to you prior to the beginning of the programme. Entry to optional modules will be at the discretion of the University and subject to availability. Although the University tries to ensure you are able to take the optional modules in which you have expressed interest this cannot be guaranteed.

Placement opportunities
There are no formal arrangements for study abroad or placements.

Study abroad opportunities
N/A

Teaching and learning delivery
You will be taught through lectures, seminars and workshops. 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 – 312 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
The MSc programme in Renewable Energy: Technology and Sustainability is accredited by: Chartered Institute of Building Services Engineers; Energy Institute To be awarded the accredited MSc, students must satisfy the conditions mentioned below.

Assessment
The general assessment pattern for each module is by coursework. Detailed assessment regimes are specified in the relevant 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

Where the conditions for a higher class have been met, the higher class should be awarded.

To qualify for **Distinction**, students must

i. gain an overall weighted average of 70 or more over 180 credits or a mark of 68 or more over 180 credits with a mark of 70 or more in 90 credits; and
ii. a mark of 60 or more for the dissertation; and
iii. students must not have any mark below 50 . Students with any module marks below 50% will be awarded an MSc in Renewable Energy which is not accredited by the Energy Institute or the Chartered Institute of Building Services Engineers (CIBSE). For such students, the total credit value of all modules marked below 50 must not exceed 55 credits; and they must not have any module marks below 40.

To qualify for **Merit**, students must

i. gain an overall weighted average of 60 or more over 180 credits or a mark of 58 or more over 180 credits with a mark of 60 or more in 90 credits; and
ii. a mark of 50 or more for the dissertation; and
iii. students must not have any mark below 50 . Students with any module marks below 50% will be awarded an MSc in Renewable Energy which is not accredited by the Energy Institute or the Chartered Institute of Building Services Engineers (CIBSE). For such students, the total credit value of all modules marked below 50 must not exceed 55 credits; and they must not have any module marks below 40

To qualify for **Passed**, students must

i. gain an overall weighted average of 50 or more over 180 credits or a mark of 48 or more over; and
ii. a mark of 50 or more for the dissertation; and
iii. students must not have any module marks below 50. Students with any module marks below 50% will be awarded an MSc in Renewable Energy which is not accredited by the Energy Institute or the Chartered Institute of Building Services Engineers (CIBSE). For such students:

the total credit value of all modules marked below 50 must not exceed 55 credits;

and

the total credit value of all modules marked below 40 must not exceed 30 credits.

For PG Diploma

The qualification of PG Diploma excludes CEM10A and CEM10B. Where the conditions for a higher class have been met, the higher class should be awarded.

To qualify for **Distinction**, students must

i. gain an overall weighted average of 70 or more over 120 credits or a mark of 68 or more over 120 credits with a mark of 70 or more in 60 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 weighted average of 60 or more over 120 credits or a mark of 58 or more over 120 credits with a mark of 60 or more over 60 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 weighted average of 50 or more over 120 credits or a mark of 48 or more over 120 credits with a mark of 50 or more over 60 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

The qualification of PG Certificate excludes CEM10A, CEM10B, CEM160, CEM16A and CEM16B.

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

i. gain an overall weighted average of 50 or more over 60 credits or an overall weighted average of 48 or more with a mark of 50 or more in 30 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.

MSc Renewable Energy: Technology and Sustainability (full-time) for students entering in session 2022/23
7 April 2022