



## **Module Specification**

### **Water and Energy Futures**

Version: 2024-25, v4.0, 22 Apr 2024

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## Part 1: Information

**Module title:** Water and Energy Futures

**Module code:** UBGMMME-30-3

**Level:** Level 6

**For implementation from:** 2024-25

**UWE credit rating:** 30

**ECTS credit rating:** 15

**College:** College of Arts, Technology and Environment

**School:** CATE School of Architecture and Environment

**Partner institutions:** None

**Field:** Geography and Environmental Management

**Module type:** Module

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** Not applicable

**Features:** Not applicable

**Educational aims:** See syllabus and module learning outcomes.

**Outline syllabus:** The module begins by consolidating students' previous knowledge about water and energy management.

It will introduce students to the key challenges inherent in these sectors, analysed through the sustainability principles. Some key concepts, such as integrated water management, water-energy nexus and low-carbon energy systems, will be introduced and discussed in the classroom. Existing and emerging challenges and solutions will be explored, considering technical, social, environmental and regulatory facets.

Themes explored through the module include:

1. Sustainability considerations (environment, society and economics) related to water and energy issues
2. Integrated water management
3. The interplay between water and energy
4. Renewable energy technologies
5. Heat decarbonisation
6. Energy policy, including energy markets, planning and community energy.

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** Scheduled learning will comprise lectures and workshops that will comprise practical tasks, guest speakers and possible field visit(s). Lectures will provide a framework for understanding the reading and the key issues covered by the module. Independent learning will use directed reading via the online reading list and a selection of online resources, including appropriate case studies

**Module Learning outcomes:** On successful completion of this module students will achieve the following learning outcomes.

**MO1** Analyse long-standing and emerging challenges within the water and energy sector.

**MO2** Examine the impact of social, political, economic, and regulatory factors on decision-making processes in water and energy management.

**MO3** Evaluate options for achieving sustainable energy and water management practices.

**MO4** Effectively communicate recommended strategies for improving resilience in water and energy systems to specific target audiences.

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 300

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://readinglists.uwe.ac.uk) via the following link <https://rl.talis.com/3/uwe/lists/548BC8F6-E983-4F4E-B74D-19A547A6CEAA.html?lang=en-GB>

## **Part 4: Assessment**

**Assessment strategy:** The assessment strategy is built on the premise of assessment for learning and learning by doing. Assessment comprises two equally weighted tasks: a portfolio and a written assignment, which will enable students to develop various skills and incorporate the knowledge they are gaining from the module.

Presentation – Individual presentation (1500 words equivalent). This will include a presentation, question and answer session and a short write up.

Written assignment - individual written assignment (1500 words).

Resit Portfolio – a similar brief to that described above

Resit written assignment - a similar brief to that described above

**Assessment tasks:**

**Presentation (First Sit)**

Description: Presentation (1,500 words equivalent).

To include a presentation, question and answer and short written submission.

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Written Assignment (First Sit)**

Description: Individual written assignment (1500 words)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Presentation (Resit)**

Description: Individual Presentation (1,500 words equivalent)

To include a presentation, question and answer and short written submission.

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Written Assignment (Resit)**

Description: Individual written assignment (1500 words)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

## Part 5: Contributes towards

This module contributes towards the following programmes of study:

Environmental Management and Practice {Foundation} [Feb][FT][GCET][4yrs] BSc (Hons) 2021-22

Environmental Management and Practice {Foundation} [Oct][FT][GCET][4yrs] BSc (Hons) 2021-22

Energy Technology and Management {Foundation} [Feb][FT][GCET][4yrs] BSc (Hons) 2021-22

Energy Technology and Management {Foundation} [Oct][FT][GCET][4yrs] BSc (Hons) 2021-22

Environmental Management and Practice {Foundation} [Oct][SW][GCET][5yrs] BSc (Hons) 2021-22

Environmental Management and Practice {Foundation} [Feb][SW][GCET][5yrs] BSc (Hons) 2021-22

Environmental Management and Practice {Foundation} [Feb][SW][GCET][5yrs] BSc (Hons) 2020-21

Environmental Management and Practice {Foundation} [Oct][SW][GCET][5yrs] BSc (Hons) 2020-21

Urban Planning [Frenchay] BSc (Hons) 2022-23

Environmental Management [Frenchay] BSc (Hons) 2022-23

Geography [Frenchay] BSc (Hons) 2022-23

Geography [Frenchay] BA (Hons) 2022-23

Urban Planning {Foundation} [Sep][FT][Frenchay][4yrs] - Withdrawn BSc (Hons) 2021-22

Geography {Foundation} [Sep][FT][Frenchay][4yrs] - Not Running BSc (Hons) 2021-22

Energy Technology and Management {Foundation} [Feb][FT][GCET][4yrs] BSc (Hons) 2021-22

Environmental Management [Sep][SW][Frenchay][4yrs] BSc (Hons) 2021-22

Environmental Management {Foundation} [Sep][FT][Frenchay][4yrs] - Not Running  
BSc (Hons) 2021-22

Environmental Management {Apprenticeship-UWE} [Sep][FT][Frenchay][5yrs] BSc  
(Hons) 2021-22

Geography [Sep][SW][Frenchay][4yrs] BSc (Hons) 2021-22

Geography [Sep][SW][Frenchay][4yrs] BA (Hons) 2021-22

Energy Technology and Management {Foundation} [Oct][FT][GCET][4yrs] BSc  
(Hons) 2021-22

Environmental Management {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running  
BSc (Hons) 2020-21

Geography and Planning {Foundation} [Sep][SW][Frenchay][5yrs] - Withdrawn BA  
(Hons) 2020-21

Geography {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BSc (Hons) 2020-  
21

Geography {Foundation} [Sep][SW][Frenchay][5yrs] - Withdrawn BA (Hons) 2020-21