



## **Module Specification**

### **Water Management**

Version: 2026-27, v2.0, 28 Jul 2023

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## Part 1: Information

**Module title:** Water Management

**Module code:** UBGL67-15-3

**Level:** Level 6

**For implementation from:** 2026-27

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

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

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

**Partner institutions:** None

**Field:**

**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:** In this module, you will examine the urban water cycle, analyse water management options at various scales, consider technical solutions and their design and sustainability, and adaptability to the climate emergency.

**Features:** Not applicable

**Educational aims:**

This module aims to enable students to evaluate and conceptualize sustainable

water management options (including technical solutions) at various scales and design elements of the urban water cycle.

**Outline syllabus:** The syllabus will typically include:

- The urban water cycle at different scales (space and time)
- Water resources, water quality and water supply
- Wastewater treatment, recycling and reuse
- SuDS
- Blue-green-grey-hybrid infrastructure
- Hydropower, pumped storage dams, water footprints, environmental impacts of dams, particularly hydro-peaking
- Infoworks
- Integrated Water Resource Management
- Water resources planning using WEAP

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

**Teaching and learning methods:** Scheduled learning on this module includes lectures, practical work and fieldwork as well as project work.

Independent learning includes time engaged with essential and further reading, use of e-learning resources, assessment preparation and assessment completion.

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

**MO1** Evaluate technical solutions within the framework of Integrated Water Resource Management and address sustainability issues in the water engineering field

**MO2** Conceptualize urban water infrastructure, management and practise

**MO3** Design elements of the urban water cycle, e.g. water supply, SuDS, blue-green-grey-hybrid infrastructure

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 114 hours

Face-to-face learning = 24 hours

Total = 150

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/9457BEC9-CEA2-1254-824B-6A0BCB3B5238.html?lang=en&login=1) via the following link <https://rl.talis.com/3/uwe/lists/9457BEC9-CEA2-1254-824B-6A0BCB3B5238.html?lang=en&login=1>

**Part 4: Assessment**

**Assessment strategy:** Summative Assessment consists of two tasks: a poster summarising a group design and a reflection on their design and the linked learning during the module.

Poster (group work): In small groups (2 - 3 students) students will apply the taught theoretical and practical background and design an element of the urban water cycle, consider sustainability and the concept of IWRM. They will present their poster at a mini-conference to other students and staff.

Guidance on how to complete group work will be provided and students will be expected to attend timetabled sessions to share their progress with the work.

Students will be expected to complete individual peer assessment forms as part of the submission, as set out in the School Group work policy. There will be one mark given per group if the peer assessment form indicate that the work was completed equally; if these forms indicate that one person has not completed the same amount of work the marks will be different for the people within the group.

Referral deliverable(s) will be scaled appropriately to group size and task complexity.

Reflective piece (individual work): Students will reflect on their learning during the module and evaluate their design (task poster) at different scales (urban, catchment and transboundary) and in different environments.

Formative work:

Formative work will be set weekly during practical and tutorial sessions for students' self assessment. Students will receive preparation exercises including discussions during tutorials for the summative assessment

**Assessment tasks:**

**Poster (First Sit)**

Description: Poster

Weighting: 60 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO3

**Reflective Piece (First Sit)**

Description: Reflective piece (1,200 words)

Weighting: 40 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

**Poster (Resit)**

Description: Poster

Weighting: 60 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO3

**Reflective Piece (Resit)**

Description: Reflective piece (1,200 words)

Weighting: 40 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

## **Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Civil Engineering [Frenchay] BEng (Hons) 2024-25

Civil Engineering [Frenchay] MEng 2024-25