



## **Module Specification**

### **Civil and Environmental Engineering Field Study**

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## Part 1: Information

**Module title:** Civil and Environmental Engineering Field Study

**Module code:** UBGMYD-15-1

**Level:** Level 4

**For implementation from:** 2023-24

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

**Faculty:** Faculty of Environment & Technology

**Department:** FET Dept of Geography & Environmental Mgmt

**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:** This module will focus on core skills learned and practised during field site visits which are underpinned by previsit desk top study. The site visits will vary year to year depending on appropriate, available and accessible civil

engineering activities in the wider region. Appropriate sites will cover one or more of the core civil engineering discipline areas of structures, materials and geotechnics.

**Outline syllabus:** Introduction to the environment of the respective field sites.

Introduction to the structural, material, water, environmental and/or geotechnical background to the field study sites.

Introduction to literature research and review.

Introduction to map resources and their interpretation.

Properties and characteristics of materials.

Development of design calculations using mathematical methods (including: algebra, trigonometry, probability).

Field survey, observation and data collection techniques.

Computer exercises – spreadsheets, CAD/Sketchup.

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

**Teaching and learning methods:** This module develops student understandings of Civil and Environmental Engineering, building on their confidence, competences and engineering skills through a series of classroom lectures, workshops and practical sessions. The whole brought together a series of civil engineering field site visits concerned with infrastructural projects such as:

Structures and Bridges

River and Flood Risk Assessments

Coastal Engineering and Sea/Ocean Defences

Hydraulic Structures such as dams, dam construction and hydro-electric schemes

Geological Engineering, Rocks and Geohazards

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

**MO1** Interpret the structural, material and / or geotechnical underpinning to the field site study visited.

**MO2** Carry out literature research in order to develop a prior understanding of a field site.

**MO3** Undertake mathematical calculations that underpin standard quantitative analyses, use spreadsheets as appropriate and present results using appropriate SI units and degrees of accuracy.

**MO4** Describe simple construction elements using sketch details and scale drawing.

**MO5** Carry out measurements and produce drawings by hand and using CAD software.

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 100 hours

Face-to-face learning = 50 hours

Total = 150

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubgmyd-15-1.html) via the following link <https://uwe.rl.talis.com/modules/ubgmyd-15-1.html>

## **Part 4: Assessment**

**Assessment strategy:** Task 1 - Field Work:

Students are required to keep a field notebook which is used for recording all relevant information and data from fieldwork and analysing this information and data.

## Task 2 - Online Test (1 hour)

This is a controlled assessment. Online test of student understanding of skills and knowledge developed within the library research exercise.

## Task 3 - Portfolio of exercises:

Students will undertake a range of practical tasks, calculations and drawings related to their field site visits. There will be a clear set of tasks that are presented as an individual portfolio.

## Formative work:

Formative feedback will be available weekly generally as part of programmed classes. Formative feedback will also be available at various points throughout the Field Site visits.

## Resit:

Students who do not engage in the module will be set some portfolio tasks based on information supplied by the tutors.

The resit assessment for the three tasks is the same as the first sit assessment.

**Assessment tasks:****Field work** (First Sit)

Description: Students are required to keep a field notebook which is used for recording all relevant information and data from fieldwork and analysing this information and data. This will be presented and submitted (2000 words)

Weighting: 55 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Examination (Online) (First Sit)**

Description: This is a controlled assessment. Online test (1 hour) of student understanding of skills and knowledge developed within the library research exercise.

Weighting: 5 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2

**Portfolio (First Sit)**

Description: Portfolio of practical work.

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO3, MO4, MO5

**Field work (Resit)**

Description: Students are required to keep a field notebook which is used for recording all relevant information and data from fieldwork and analysing this information and data. This will be presented and submitted (2000 words).

Weighting: 55 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Examination (Online) (Resit)**

Description: This is a controlled assessment. Online test (1 hour) of student understanding of skills and knowledge developed within the library research exercise.

Weighting: 5 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2

**Portfolio (Resit)**

Description: Portfolio of practical work.

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO3, MO4, MO5

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Civil Engineering [Frenchay] BEng (Hons) 2023-24

Civil Engineering [Frenchay] MEng 2023-24

Civil Engineering {Foundation} [Frenchay] BEng (Hons) 2022-23

Civil and Environmental Engineering [Sep][PT][Frenchay][5yrs] - Not Running BEng (Hons) 2022-23

Civil and Environmental Engineering {Foundation} [Sep][FT][Frenchay][4yrs] - Not Running BEng (Hons) 2022-23

Civil and Environmental Engineering {Foundation} [Sep][SW][Frenchay][5yrs] - Not Running BEng (Hons) 2022-23

Civil Engineering {Apprenticeship-UWE} [Frenchay] BEng (Hons) 2022-23

Civil Engineering [Frenchay] BEng (Hons) 2022-23

Civil Engineering [Frenchay] MEng 2022-23