



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: 2021-22

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Geography & Environmental Mgmt

Partner institutions: None

Delivery locations: Frenchay Campus, Northshore College of Business and Technology

Field: Geography and Environmental Management

Module type: Standard

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:

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: 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.

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 which assess learning outcomes 1, 3,4 and 5.

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.

Students resitting the field work will undertake a 10 minute presentation on the site visits.

Assessment components:

Field work - Component A (First Sit)

Description: Individual workbook on field site investigation (20 mins)

Weighting: 60 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Portfolio - Component B (First Sit)

Description: Portfolio of practical work.

Weighting: 40 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO3, MO4, MO5

Presentation - Component A (Resit)

Description: Individual presentation of field site investigation.

Weighting: 60 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Portfolio - Component B (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 and Environmental Engineering [Sep][PT][Frenchay][7yrs] MEng 2020-21

Civil and Environmental Engineering [Sep][PT][Frenchay][5yrs] BEng (Hons) 2020-21

Civil and Environmental Engineering {Foundation} [Sep][SW][Frenchay][5yrs] BEng (Hons) 2020-21

Civil and Environmental Engineering {Apprenticeship-UWE} [Sep][FT][Frenchay][5yrs] - Not Running BEng (Hons) 2020-21

Civil and Environmental Engineering {Foundation} [Sep][FT][Frenchay][4yrs] BEng (Hons) 2020-21

Civil Engineering {Foundation} [Sep][FT][Frenchay][4yrs] BEng (Hons) 2020-21

Civil Engineering {Foundation} [Sep][SW][Frenchay][5yrs] BEng (Hons) 2020-21

Civil Engineering [Sep][PT][Frenchay][5yrs] BEng (Hons) 2020-21

Civil Engineering {Apprenticeship-UWE} [Sep][FT][Frenchay][5yrs] BEng (Hons)
2020-21

Civil Engineering [Sep][PT][Frenchay][7yrs] MEng 2020-21