



MODULE SPECIFICATION

Part 1: Information			
Module Title	Civil and Environmental Engineering Field Study		
Module Code	UBGMYD-15-1	Level	Level 4
For implementation from	2019-20		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	FET Dept of Geography & Environmental Mgmt		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>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.</p> <p>Outline Syllabus: Introduction to the environment of the respective field sites.</p> <p>Introduction to the structural, material, water, environmental and/or geotechnical background to the field study sites.</p> <p>Introduction to literature research and review.</p> <p>Introduction to map resources and their interpretation.</p> <p>Model building (e.g. card bridges, straw tower, etc).</p> <p>Properties, characteristics and physical lab testing of materials.</p>

STUDENT AND ACADEMIC SERVICES

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

Field survey, observation and data collection techniques.

Computer exercises – spreadsheets, CAD/Sketchup.

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

Part 3: Assessment

Students are required to keep a lab/field notebook which is used for recording all relevant information and data from lab experiments and fieldwork. These will not be marked as such, although will be a focus for formative feedback given during contact sessions, but having one and using it will gain marks through the active participation elements of the module such as field exercises and group presentations.

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.

Students undertake a group presentation based on one of the field study sites, drawing together and contextualising information gathered. The presentation will be marked as a group, and any imbalance of student effort will be resolved using the faculty group work policy.

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 will undertake a 10 minute presentation on one of the site visits.

First Sit Components	Final Assessment	Element weighting	Description
Portfolio - Component B		50 %	Portfolio of practical work.
Presentation - Component A	✓	50 %	Group presentation of field site investigation.

STUDENT AND ACADEMIC SERVICES

Resit Components	Final Assessment	Element weighting	Description
Portfolio - Component B		50 %	Portfolio of practical work
Field work - Component A	✓	50 %	Individual presentation of field site investigation.

Part 4: Teaching and Learning Methods																	
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th>Module Learning Outcomes</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>Interpret the structural, material and / or geotechnical underpinning to the field site study visited.</td> <td>MO1</td> </tr> <tr> <td>Carry out literature research in order to develop a prior understanding of a field site.</td> <td>MO2</td> </tr> <tr> <td>Undertake mathematical calculations that underpin standard quantitative analyses, use spreadsheets as appropriate and present results using appropriate SI units and degrees of accuracy.</td> <td>MO3</td> </tr> <tr> <td>Describe simple construction elements using sketch details and scale drawing.</td> <td>MO4</td> </tr> <tr> <td>Carry out measurements and produce drawings by hand and using CAD software.</td> <td>MO5</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Interpret the structural, material and / or geotechnical underpinning to the field site study visited.	MO1	Carry out literature research in order to develop a prior understanding of a field site.	MO2	Undertake mathematical calculations that underpin standard quantitative analyses, use spreadsheets as appropriate and present results using appropriate SI units and degrees of accuracy.	MO3	Describe simple construction elements using sketch details and scale drawing.	MO4	Carry out measurements and produce drawings by hand and using CAD software.	MO5				
Module Learning Outcomes	Reference																
Interpret the structural, material and / or geotechnical underpinning to the field site study visited.	MO1																
Carry out literature research in order to develop a prior understanding of a field site.	MO2																
Undertake mathematical calculations that underpin standard quantitative analyses, use spreadsheets as appropriate and present results using appropriate SI units and degrees of accuracy.	MO3																
Describe simple construction elements using sketch details and scale drawing.	MO4																
Carry out measurements and produce drawings by hand and using CAD software.	MO5																
Contact Hours	<table border="1"> <thead> <tr> <th colspan="2">Independent Study Hours:</th> </tr> </thead> <tbody> <tr> <td>Independent study/self-guided study</td> <td>100</td> </tr> <tr> <td>Total Independent Study Hours:</td> <td>100</td> </tr> <tr> <th colspan="2">Scheduled Learning and Teaching Hours:</th> </tr> <tr> <td>Face-to-face learning</td> <td>50</td> </tr> <tr> <td>Total Scheduled Learning and Teaching Hours:</td> <td>50</td> </tr> <tr> <td>Hours to be allocated</td> <td>150</td> </tr> <tr> <td>Allocated Hours</td> <td>150</td> </tr> </tbody> </table>	Independent Study Hours:		Independent study/self-guided study	100	Total Independent Study Hours:	100	Scheduled Learning and Teaching Hours:		Face-to-face learning	50	Total Scheduled Learning and Teaching Hours:	50	Hours to be allocated	150	Allocated Hours	150
Independent Study Hours:																	
Independent study/self-guided study	100																
Total Independent Study Hours:	100																
Scheduled Learning and Teaching Hours:																	
Face-to-face learning	50																
Total Scheduled Learning and Teaching Hours:	50																
Hours to be allocated	150																
Allocated Hours	150																
Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p>https://uwe.rl.talis.com/modules/ubgmyd-15-1.html</p>																

STUDENT AND ACADEMIC SERVICES

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Civil and Environmental Engineering {Foundation} [Sep][SW][Frenchay][5yrs] BEng (Hons) 2018-19

Civil and Environmental Engineering [Sep][PT][Frenchay][7yrs] MEng 2018-19

Civil and Environmental Engineering {Apprenticeship} [Sep][PT][Frenchay][5yrs] BEng (Hons) 2018-19

Civil and Environmental Engineering [Sep][PT][Frenchay][5yrs] BEng (Hons) 2018-19

Civil and Environmental Engineering {Foundation} [Sep][FT][Frenchay][4yrs] BEng (Hons) 2018-19