



MODULE SPECIFICATION

Part 1: Information			
Module Title	Surveying		
Module Code	UBGMT9-15-1	Level	Level 4
For implementation from	2018-19		
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		
Contributes towards	Civil and Environmental Engineering [Sep][SW][Frenchay][4yrs] BEng (Hons) 2018-19 Civil and Environmental Engineering [Sep][FT][Frenchay][4yrs] MEng 2018-19 Civil and Environmental Engineering [Sep][PT][Frenchay][7yrs] MEng 2018-19 Civil and Environmental Engineering [Sep][SW][Frenchay][5yrs] MEng 2018-19 Civil and Environmental Engineering [Sep][PT][Frenchay][5yrs] BEng (Hons) 2018-19 Civil and Environmental Engineering [Sep][FT][Frenchay][3yrs] BEng (Hons) 2018-19 Civil and Environmental Engineering (Apprenticeship) [Sep][PT][Frenchay][5yrs] BEng (Hons) 2018-19		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

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Part 2: Description

Educational Aims: The aim of this module is to ensure you will have a theoretical and practical knowledge of surveying techniques for civil engineering applications.

In addition to the Learning Outcomes, the educational experience may explore, develop, and practise but not formally discretely assess the following:

Carrying out tests and checks for quality assurance purposes on surveying equipment.

Working as a team member.

Outline Syllabus: Levelling:

Level surveys, distance measurement with steel tapes, setting out (elevation).

Total stations:

Angle and distance measurement, Bowditch Adjustment, setting out (easting and northings).

Surveying theory:

Accuracy and errors, technology.

Teaching and Learning Methods: You will use modern equipment to carry out site surveys and set out construction projects, to design standards. The module will involve a good deal of practical work, where the theory taught in lectures is put into practice in the field.

In the practical sessions, students can develop their understanding through interaction with teaching staff from whom they will receive formative feedback.

Part 3: Assessment

This module is based around development of practical skills and application of surveying technology and theory. Therefore the assessment is a practical exam where the students undertake a surveying exercise and complete the associated calculations to demonstrate the learning outcomes.

Component A - Practical Exam. Learning outcomes 1 and 2
Practical surveying exam.

First Sit Components	Final Assessment	Element weighting	Description
Practical Skills Assessment - Component A	✓	100 %	Practical surveying examination (3 hours)
Resit Components	Final Assessment	Element weighting	Description
Practical Skills Assessment - Component A	✓	100 %	Practical surveying examination (3 hours)

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Part 4: Teaching and Learning Methods							
Learning Outcomes	On successful completion of this module students will be able to:						
	<table border="1"> <thead> <tr> <th colspan="2" style="text-align: center;">Module Learning Outcomes</th> </tr> </thead> <tbody> <tr> <td>MO1</td> <td>Collect data using surveying instruments pertinent to the construction industry to accurately record the topographical environment for use in engineering design</td> </tr> <tr> <td>MO2</td> <td>Set out construction works from design plans</td> </tr> </tbody> </table>	Module Learning Outcomes		MO1	Collect data using surveying instruments pertinent to the construction industry to accurately record the topographical environment for use in engineering design	MO2	Set out construction works from design plans
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MO1	Collect data using surveying instruments pertinent to the construction industry to accurately record the topographical environment for use in engineering design						
MO2	Set out construction works from design plans						
Contact Hours	Contact Hours						
	Independent Study Hours:						
	Independent study/self-guided study	114					
	Total Independent Study Hours:	114					
	Scheduled Learning and Teaching Hours:						
	Face-to-face learning	36					
	Total Scheduled Learning and Teaching Hours:	36					
	Hours to be allocated	150					
	Allocated Hours	150					
Reading List	<p><i>The reading list for this module can be accessed via the following link:</i></p> <p>https://uwe.rl.talis.com/modules/ubgmt9-15-1.html</p>						