



Module Specification

Surveying

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Part 1: Information

Module title: Surveying

Module code: UBGMT9-15-1

Level: Level 4

For implementation from: 2024-25

UWE credit rating: 15

ECTS credit rating: 7.5

College: College of Arts, Technology and Environment

School: CATE School of Engineering

Partner institutions: None

Field: Engineering, Design and Mathematics

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: 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.

Part 3: Teaching and learning methods

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.

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

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 0

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubgmt9-15-1.html) via the following link <https://uwe.rl.talis.com/modules/ubgmt9-15-1.html>

Part 4: Assessment

Assessment strategy: This module is based around development of practical skills and application of surveying technology and theory. Therefore, the assessment is composed of a practical task and a written exam where the students demonstrate the learning outcomes. The first sit and the resit assessment follow the same format.

Assessment tasks:

Practical Skills Assessment (First Sit)

Description: 30-minute practical surveying assessment in the final teaching week where students will be evaluated against MLO1.

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

Examination (First Sit)

Description: Written examination to assess the theory elements of the module, MLO2 (2 hour).

Weighting: 70 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2

Practical Skills Assessment (Resit)

Description: There is one 30-minute practical surveying assessment where students will be evaluated against MLO1.

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

Examination (Resit)

Description: Written examination to assess the theory elements of the module (2 hour).

Weighting: 70 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2

Part 5: Contributes towards

This module contributes towards the following programmes of study:

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

Civil Engineering {Apprenticeship-UWE} [Frenchay] - Withdrawn BEng (Hons) 2024-25

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

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

Civil Engineering [Frenchay] - Withdrawn MEng 2024-25

Civil Engineering [Frenchay] - Withdrawn MEng 2024-25