Module Specification

Surveying

Version: 2021-22, v3.0, 15 Jul 2021

Contents

Part 1: Information

Module title: Surveying

Module code: UBGMT9-15-1

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 & Envrnmental Mgmt

Partner institutions: None

Delivery locations: Frenchay Campus

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: 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:

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 = 150

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk 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 a series of practical tasks and an in-class test where the students undertake surveying exercises and complete the associated calculations to demonstrate the learning outcomes.

Component A - Practical tasks a
Compnent B in-class test.

The resit will be the same a series of practical tasks and an in-class test.

Assessment components:

Practical Skills Assessment - Component A (First Sit)
Description: Practical surveying tests (2 hours)
There will 2 assessed practicals throughout the term covering MLO 1 and 2, worth 35% each.
Each assessed practical is 1 hour long.
Weighting: 70 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2

In-class test - Component B (First Sit)

Description: In class test to assess the theory elements of the module (1 hour).

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2

Practical Skills Assessment - Component A (Resit)

Description: Practical surveying tests (2 hours)

There will 2 assessed practicals throughout the term covering MLO 1 and 2, worth 35% each.

Weighting: 70 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

In-class test - Component B (Resit)

Description: In class test to assess the theory elements of the module (1 hour).

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Civil and Environmental Engineering {Foundation} [Sep][SW][Frenchay][5yrs] 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