



Module Specification

Principles of Sustainable Design

Version: 2023-24, v2.0, 24 Jan 2023

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Part 1: Information

Module title: Principles of Sustainable Design

Module code: UBLLWV-30-1

Level: Level 4

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

Faculty: Faculty of Environment & Technology

Department: FET Dept of Architecture & Built Environ

Partner institutions: None

Delivery locations: Frenchay Campus

Field: Architecture and the Built Environment

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

Working as a team member

Drawn and verbal presentation skills

Advanced CAD/BIM

Outline syllabus: Fundamental Principles:

Historic and architectural context

Design theories and aesthetics

Function, form and style

Analysis of users requirements, briefing

Functional appraisal and design

Structural appraisal and design

Environmental appraisal and design

Design methodology

Management of the design process

Design guides

Urban design

Housing design

Access for the disabled

Loading: structural layout and load paths

Sustainability issues and design principles

Professional ethics

Application:

Drawing and sketching

Introduction to CAD and BIM

Design and detailing of simple building types

Planning applications, design and access statements

Part 3: Teaching and learning methods

Teaching and learning methods: The first 6-8 weeks is devoted to skills development including lectures, tutorials, practical classes, workshops, site visits etc. to help students engage with what is to follow.

The remainder of the first semester covers theoretical aspects of design to prepare students for summative assessment at the end of the semester, mainly delivered by lectures and tutorials with directed learning.

Teaching in the second semester focuses on the practical application of theoretical issues covered in the first semester using a specific project as the teaching and learning vehicle, comprising a mixture of project workshops and design studios

Scheduled learning includes lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops; fieldwork; external visits; work based learning; supervised time in studio/workshop.

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc.

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

MO1 Undertake measured and level surveys and produce drawings by hand and CAD

MO2 Identify the sustainability and environmental context in which design is undertaken

MO3 Demonstrate the relationship between external influences on design and the resultant function, form and style of buildings

MO4 Identify the links between site, structure, environment, sustainability, fabric and the user's requirements

MO5 Elicit a design brief from building users

MO6 Apply the fundamental BIM principles and concepts of design to a range of simple building types

MO7 Describe the function of key structural elements in domestic and simple framed construction

MO8 Undertake detailed design appraisal of selected elements of construction recognising and relating to professional ethics accordingly

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 75 hours

Face-to-face learning = 225 hours

Total = 300

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubllwv-30-1.html) via the following link <https://uwe.rl.talis.com/modules/ubllwv-30-1.html>

Part 4: Assessment

Assessment strategy: The assessment strategy seeks to integrate the strands of knowledge and to introduce the students to formal academic writing. There are three distinct sections:

Online Assessment - Relates to development of essential building surveying, measuring, recording and sketching skills and is assessed by summative assessment in the form of a 60 minute individual online assignment.

Portfolio 1 (Skills) – Is based on the skills explored and examined in the early in the module. These build to form a portfolio of work which reflects the development and application of these skills accordingly to typical situations that are faced in practice.

Portfolio 2 (Project) – Relates to the project work undertaken later in the module.

Formative assessment - will be based on in class critique sessions, where students

will be required to communicate their design ideas and respond to criticism from staff and peers, to then produce a final portfolio of work to graphically demonstrate their response to the design brief.

Resit Online Assessment - a similar brief to that described above, which may include an adjusted topic choice.

Resit Portfolio 1 - a similar brief to that described above, which may include an adjusted topic choice.

Resit Portfolio 2 - a similar brief to that described above, which may include an adjusted topic choice.

Assessment components:

Portfolio (First Sit)

Description: Portfolio 1 (skills)

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3, MO4

Portfolio (First Sit)

Description: Portfolio 2 (project)

Weighting: 45 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO5, MO6, MO7, MO8

Online Assignment (First Sit)

Description: Online assessment (60 minutes)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

Portfolio (Resit)

Description: Portfolio 1 (skills)

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3, MO4

Portfolio (Resit)

Description: Portfolio 2 (Project)

Weighting: 45 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO5, MO6, MO7, MO8

Online Assignment (Resit)

Description: Online assessment (60 minutes)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Building Surveying {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2022-23

Building Surveying {Apprenticeship-UWE} [Sep][FT][Frenchay][5yrs] BSc (Hons)
2022-23

Building Surveying {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2022-23

Building Surveying [Sep][PT][Frenchay][5yrs] BSc (Hons) 2022-23

Construction Project Management [Sep][PT][Frenchay][5yrs] BSc (Hons) 2022-23

Construction Project Management {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2022-23

Construction Project Management {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2022-23

Architectural Technology and Design [Sep][PT][Frenchay][5yrs] BSc (Hons) 2022-23

Construction Project Management {Foundation} [Frenchay] BSc (Hons) 2022-23

Construction Project Management [Frenchay] BSc (Hons) 2022-23

Building Surveying {Foundation} [Frenchay] BSc (Hons) 2022-23

Building Surveying [Frenchay] BSc (Hons) 2022-23

Building Surveying {Apprenticeship-UWE} [Frenchay] BSc (Hons) 2022-23

Architectural Technology and Design [Frenchay] BSc (Hons) 2022-23

Architectural Technology and Design {Foundation} [GCET] BSc (Hons) 2022-23