



Module Specification

Foundation Project in Sustainability

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Contents

Module Specification	1
Part 1: Information	2
Part 2: Description	2
Part 3: Teaching and learning methods	4
Part 4: Assessment.....	5
Part 5: Contributes towards	6

Part 1: Information

Module title: Foundation Project in Sustainability

Module code: UBLMY6-15-0

Level: Level 3

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

College: Faculty of Environment & Technology

School: FET Dept of Architecture & Built Environ

Partner institutions: None

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: This module is an introduction to sustainable design. It outlines key environmental challenges that we face and explores the sustainable design methods being developed in response.

Features: Not applicable

Educational aims: See Learning Outcomes

Outline syllabus: Key areas include:

-Minimising waste production

-Principles, application, advantages/disadvantages to society and the environment of minimising waste production throughout the product life cycle using the following 4

Rs:

Reduce materials and energy;

Reuse materials and products where applicable;

Recover energy from waste;

Recycle materials and products or use recycled materials.

-Renewable sources of Energy

-The characteristics, applications and advantages/disadvantages of using the following renewable sources of energy:

Wind energy using turbines and wind farms;

Solar energy using solar cells and photovoltaic cells;

Biomass converted into biofuels for transportation.

-Climate Change

-The responsibilities of 'developed' countries in minimising the impact of industrialisation on global warming and climate change including:

Reducing greenhouse gas emissions e.g. the Kyoto Protocol.

-Moral, Social and Cultural issues

-The strategy, characteristics, applications and advantages/disadvantages of the following value issues when designing and manufacturing products:

Built-in obsolescence in new products for a 'throwaway' culture;

Offshore manufacture of mass-produced products in developing countries by multinational companies.

Part 3: Teaching and learning methods

Teaching and learning methods: Scheduled learning includes lectures with tutorial sessions constituting an introduction to contemporary environmental challenges and their potential impacts upon society. Case studies exploring the use of various sustainable design tools used alongside relevant resources from current affairs.

Group discussions and tutorials will explore moral, social cultural issues.

Independent learning includes engagement in problem solving and preparation of tutorial questions and assignment preparation.

Contact Hours

Contact: 36

Assimilation and skill development: 50

Coursework: 64

Total: 150

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

MO1 Show an understanding of contemporary environmental challenges and the implications of individual threats

MO2 Explain the meaning of sustainable design and appreciate the interrelationships between the social, economic and environmental issues

MO3 Show an understanding of different approaches that could be taken to create sustainable solutions including behaviour change, materials and processes and distribution, energy consumption and resource management and efficiency

MO4 Research, select, evaluate, manipulate and manage information relevant to the analysis and synthesis of sustainable design solutions

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](https://uwe.rl.talis.com/modules/ublmy6-15-0.html) via the following link <https://uwe.rl.talis.com/modules/ublmy6-15-0.html>

Part 4: Assessment

Assessment strategy: The assessment strategy in this project module is based upon the analysis of information and data and the development and communication of opinions relating to global issues and the human response to them.

Project (Individual): Individual work is made up of individual studio focussed application of research, discussion etc. and an individual programme focussed written element drawing upon research discussion etc.

Project (Group): Group work made up of a series of in class tests released throughout the semester which are then developed, following in-class feedback, into a final group submission.

Resit Project (Individual) - a similar brief to that described above, which may include some topic changes.

Resit Project (Group) - the brief will be set for students to complete on an individual basis, with reflection on working in a group environment.

Assessment tasks:**Project (First Sit)**

Description: Group project

Weighting: 50 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3, MO4

Project (First Sit)

Description: Individual project

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Project (Resit)

Description: Individual Project (Group reflection)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Project (Resit)

Description: Individual project

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Construction and Property Studies {Foundation} [Frenchay] BSc (Hons) 2023-24

Interior Architecture {Foundation} [Frenchay] BA (Hons) 2023-24

Architectural Technology and Design {Foundation} [Frenchay] BSc (Hons) 2023-24

Architecture and Planning {Foundation} [Frenchay] BA (Hons) 2023-24

Product Design {Foundation} [Frenchay] BA (Hons) 2023-24