Module Specification

Building Design Futures

Version: 2024-25, v2.0, 19 Apr 2024

Contents

Part 1: Information

Module title: Building Design Futures

Module code: UBLMY6-15-0

Level: Level 3

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 Architecture and Environment

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.

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 Using sustainable and regenerative design solutions demonstrate an understanding of contemporary approaches.
These will encompass behaviour change, appropriate materials use, energy consumption and climate adaptation relevant to a forward looking architectural practice.

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/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 and reflections..

Resit Project (Individual) - a similar brief to that described above.

Assessment tasks:

Project (First Sit)
Description: Individual project
Weighting: 100 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2, MO3

Project (Resit)
Description: Individual project
Weighting: 100 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Architectural Technology and Design {Foundation} [Frenchay] BSc (Hons) 2024-25

Interior Architecture {Foundation} [Frenchay] - Withdrawn BA (Hons) 2024-25

Product Design {Foundation} [Frenchay] - Suspended for Sept 2024 intake BA (Hons) 2024-25

Construction and Property Studies {Foundation} [Frenchay] BSc (Hons) 2024-25

Architecture and Planning {Foundation} [Frenchay] BA (Hons) 2024-25