Module Specification

Analysis of Building Defects

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Part 1: Information

Module title: Analysis of Building Defects

Module code: UBLMQS-15-2

Level: Level 5

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: Construction Technology and Services 2023-24, Introduction to Building Construction 2023-24

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Pre-requisites: students must take one out of UBLMAB-30-1 An Introduction to Building Construction or UBLMYS-30-1 Construction Technology and Services.

Features: Not applicable

Educational aims: This module examines the nature, causes, diagnosis and consequences of domestic building defects, from the 18th century to the present day. It is concerned with the key surveying task of analysing, identifying and evaluating the condition of the fabric of existing buildings in order to be able to make judgements on the likely effect of condition on the performance of a building.

The module is focussed primarily on domestic/domestic scale, low rise, urban buildings, and materials commonly used in their construction.

Outline syllabus: Topics covered include defects relating to:

Building movement

Problems of dampness and condensation

External and internal walls

Internal and external finishes

Rot and insect attack

Roof structure and coverings

Foundations and floors

Part 3: Teaching and learning methods

Teaching and learning methods: Contact time with staff will be split between Lectures, Tutorials and Site Visits:

Contact time, lectures, tutorials, site visits: 36 hours

Assimilation and development of knowledge: 74 hours

Exam preparation: 15 hours

Coursework preparation: 25 hours

Total study time: 150 hours

Scheduled Learning

The module will be delivered through a variety of scheduled learning contact sessions. These will involve:

1 hr lecture that will introduce the subject and signpost how it is to be interpreted for this module.

2 hr Tutorial sessions in smaller split tutorial groups. These will:

Always include activities which enable the student to explore and apply their own knowledge to specific situations;

Sometimes include a Faculty produced 25 minute films – used interactively to provoke questions and a deepening of knowledge;

Sometimes involve a multiple choice quiz to both reinforce and monitor learning.

This module will be supported by a parallel programme of site visits and / or visiting speakers to demonstrate and expand upon teaching and learning about various defects.

Independent Learning

In addition to the scheduled learning contact time, students will be required to undertake independent learning. This will include directed reading and self-directed

research, drawing practice, exam and test preparation and summative coursework completion.

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

MO1 Identify the origins and causes of building defects

MO2 Diagnose common building defects

MO3 Evaluate how poor construction techniques, materials or workmanship can lead to premature building failure

MO4 Distinguish those defects common to older forms of construction

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/ublmqs-15-2.html

Part 4: Assessment

Assessment strategy: The assessment strategy for the module is made up of an examination and assembly of a portfolio.

The end of semester examination which will provide a suitable, rigorous and effective mechanism for measuring how effectively students have attained the learning outcomes.

The assembly of a portfolio will students to provide a Photographic Portfolio of a number of self-selected separate building defects and write a brief report on each

reviewing the possible cause/s, effect/s implications and remedial works supported by citation of suitable literature sources.

Formative feedback opportunities for this component will be provided during tutorial sessions.

Assessment tasks:

Examination (Online) (First Sit)
Description: Online Exam
Weighting: 50 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2, MO3, MO4

Portfolio (First Sit)
Description: Photographic portfolio and written commentary
Weighting: 50 %
Final assessment: No
Group work: No
Learning outcomes tested: MO1, MO2

Examination (Online) (Resit)
Description: Online Exam
Weighting: 50 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2, MO3, MO4

Portfolio (Resit)
Description: Photographic portfolio and written commentary
Weighting: 50 %
Final assessment: No
Group work: No

Learning outcomes tested: MO1, MO2

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Architectural Technology and Design [Sep][PT][Frenchay][5yrs] BSc (Hons) 2021-22