

Integrated Design Project

Module Descriptor

Module Code: BCU6IDP

Version: 3.00

Status: Final

Date: 22/07/2020

Summary Module Details

Module details

Module Title: Integrated Design Project

Module Leader: Jonathan Hubert

Module Mode: Supported online learning

Semester: Spring (UK)

Level: 6

Credits: 20

Learning Hours: 200

Contact & Study Hours

Directed Study Time: 65hrs (32.5%)

Self-Directed Study Time: 65hrs (32.5%)

Assessment Study Time: 70hrs (35%)

Assessment Type

Coursework: 0%

Computer Marked Assessment: 0%

Self-directed Research Project: 0%

Portfolio: 100%

Module Summary

This module enables students to consolidate their knowledge and skills gained from the previous modules, whilst working collaboratively in multi-disciplinary groups, within a project scenario.

The context of the project will consider the due diligence and client advice needed to be undertaken by students for a commercial or industrial building to provide feasibility advice to a client on the options available in terms of reconstruction or adaption of the property for a new use.

The purpose of the project is to identify procedures required for the adaption and refurbishment of the building based on a client's brief and to produce a scheme design for this and other associated data and documentation.

The scenario presents opportunities to demonstrate how different disciplines can contribute to different elements of a scheme design and for students to appreciate the strengths of each other's disciplines.

Critically, this module provides an opportunity for elements of collaboration and personal self-reflection.

Taken on which Programmes

BSc (Hons) Building Control (C)

Core (C) or Elective (E)

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Module Aims

This module aims to:

- Provide an opportunity for students to work collaboratively in the context of a project scenario;
- Encourage students to become reflective practitioners in evaluating their own performance as a team member;
- Enable students to evaluate the extent to which an existing building can be adapted to meet client needs, in terms of spatial planning, aesthetical and functional design, technological solutions, sustainability and whole life costing; and
- Provide students with an appreciation of how statutory requirements influence the design and planning of building adaption and to apply knowledge gained in earlier study to this module.

Module Learning Outcomes

- LO1. Analyse and investigate problems and develop reasoned technical arguments to identify sustainable refurbishment and adaptation solutions.
- LO2. Effectively communicate information, ideas, problems and solutions within the context of building refurbishment and adaptation.
- LO3. Interpret qualitative and quantitative data, and discuss the relevant legislation, regulation and standards that apply.
- LO4. Work collaboratively with other students to achieve an agreed outcome and reflect on the process.

Indicative Module Content

Module topics

- **Building Refurbishment and Adaptation**
Principles of building refurbishment and adaptation, the concept of the building lifecycle, obsolescence and the decisions that may be prompted by it.
- **Building Adaptation, Refurbishment and Sustainability**
Climate change, impact of the built environment, environmental assessments schemes and the drivers for change.
- **Determining Initial Cost Estimates for Refurbishment and Adaptation**
Considers the difficulties encountered in providing early cost estimates for this type of work, and the influence of whole life costing on the decision-making process.

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- **Spatial Planning and Extensions**

Working within the constraints of existing building structures, and issues raised by the vertical and horizontal extension of buildings.

- **Opportunity, Barriers and Creativity**

Recognition of issues arising out of the adaptation of a building and the need for creative solutions.

This content will be reviewed and updated regularly to reflect the legal, moral and financial changes in professional standards and practice.

Overview of Summative Assessment

| Module learning outcomes | Assessment | Word count or equivalent | Weighting |
|--------------------------|---|--|-----------|
| LO1, LO2, LO3, LO4 | Assessment 1 Portfolio submission | 5,000 words (4,500 words plus drawings) | 100% |

Module Pass Mark (as a weighted average of all assessments): 40%

Key Module Learning Resources

Core Sources and Texts

The core reading resources within each module will be provided via the specific Virtual Learning Environment (VLE) module pages and within the e-Library. Additional reference material and supplementary resources to support your studies are available through the UCEM e-Library.

Module tools

Students will have access to study materials, dedicated academic support, student forums, and learning activities via an online learning platform (VLE).

The module page on the VLE is broken down into structured study weeks to help students plan their time, with each week containing a mixture of reading, case studies, videos/recordings and interactive activities to go through. Online webinars/seminars led by the Module Leader can be attended in real time and provide opportunities to consolidate knowledge, ask questions, discuss topics and work through learning activities together. These sessions are recorded to support students who cannot attend and to enable students to recap the session and work through it at their own pace. Module forums on the VLE provide further opportunities to discuss topics with other students, complete collaborative work and get extra help from the module team.

Professional online resources

The e-Library provides access to trusted, quality online resources, selected by subject specialists, to support students' study. This includes journals, industry publications,

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magazines, academic books and a dissertation/work-based library. For a list of the key industry specific and education resources available please visit [the VLE e-Library](#).

Other relevant resources

Access is also provided to further information sources that include the British Library and Open University UK catalogues, as well as providing a monthly current awareness service entitled, **Knowledge Foundations** - a compendium of news, research and resources relating to the educational sector and the Built Environment.

The module resource list is available on the module website and is updated regularly to ensure materials are relevant and current.