

### Summary Information

Module Code	4340BEUG
Formal Module Title	Design and Environmental Procedures
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
Civil Engineering and Built Environment

### Learning Methods

Learning Method Type	Hours
Lecture	18
Tutorial	4
Workshop	22

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

### Aims and Outcomes

Aims	To develop understanding of design and environmental considerations for low-rise building construction and refurbishment. To develop practical skills in producing simple building designs using appropriate software.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Identify and apply the principles of successful design.
MLO2	2	Understand the requirements of building regulations and the impact of regulations and guidance on building design.
MLO3	3	Research and develop sustainable and inclusive design solutions taking into consideration building performance and energy efficiency.
MLO4	4	Produce simple building designs using appropriate software.

### Module Content

Outline Syllabus	Developments in building design; Architectural analysis, design concepts and design terminology. Environmental factors affecting building design; the indoor environment and energy efficiency. Environmental assessment systems for residential construction, Application of scientific principles and concepts such as Acoustics, Light and Energy efficiency within building design. Building regulations and design guidance. Design and environmental challenges of modification and refurbishment of older buildings. Introduction to Revit and presentation of Architectural drawings. Producing simple building designs; Architectural drawing requirements and conventions.
Module Overview	
Additional Information	This module develops understanding of design and environmental considerations for low-rise building construction and refurbishment and develops practical skills in producing simple building designs using appropriate software.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	Portfolio: Report and Drawings	100	0	MLO1, MLO2, MLO4, MLO3

### Module Contacts

#### Module Leader

Contact Name	Applies to all offerings	Offerings
Spencer Kelly	Yes	N/A

#### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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