

Summary Information

Module Code	4314BEUG
Formal Module Title	Passive Design and Specification
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	22
Off Site	6
Workshop	22

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To introduce fundamental concepts concerning passive building design with particular reference to dwellings. To introduce students to specification of materials for building projects.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Recognise the significance of historic and contemporary influences on domestic architecture, including climate change.
MLO2	2	Identify and apply the principles of passive building design with particular focus on the sustainable refurbishment of residential buildings.
MLO3	3	Identify the requirements for a specification of building materials with an emphasis on sustainable low-carbon materials.

Module Content

Outline Syllabus	Introduction to history, theory and practice of domestic architecture.Principles of sustainability, climate change and environmental impact on residential building design.Passive design principles, theory and practice.Application of passive design to a residential refurbishment project.Design layouts and structural strategy.Material specification; standards, codes of practice, product selection.Development of general IT and Revit skills for the visual presentation of project designs.
Module Overview	
Additional Information	This module introduces fundamental concepts concerning the passive design of dwellings via a refurbishment project.

Assessments

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

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Michael Farragher	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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