

Construction Technology 1

Module Information

2022.01, Approved

Summary Information

Module Code	4309BEUG
Formal Module Title	Construction Technology 1
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
Online	11
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 introduce the student to the building process and construction technology associated with domestic dwellings. To develop an understanding of the performance of buildings and the influence of alternative methods and materials for sustainable construction.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Recognise and compare a range of processes and techniques involved in the construction of the substructure work of domestic buildings.
MLO2	2	Identify, including via construction drawings, a range of processes and techniques involved in the construction of the primary elements of the superstructure of domestic buildings.
MLO3	3	Describe and compare a range of processes and techniques involved in the construction of the secondary elements and finishes of domestic buildings.
MLO4	4	Describe and explain building services systems used in domestic buildings and recognise how these are adapting to save energy and resources.
MLO5	5	Identify and summarise key aspects of the regulatory environment including Building Regulations and Health and Safety requirements.

Module Content

Outline Syllabus	Substructure – domestic foundations of the forms of strip, raft and pile foundations for domestic buildings. Mechanical plant used in substructure work. Excavations. Site investigations for housing sites. Superstructure – Ground floor construction using suspended and solid floors. External cavity wall construction. Timber frame construction and timber upper floors. Pitched and flat roofs. Secondary Elements and Finishes – stair, door and window construction and fixing. Internal partitions and internal finishes. External cladding and rendering. Modern methods of construction and sustainable construction for dwellings. Preparation and presentation of scaled construction drawings. Building Services to domestic dwellings including alternative approaches to save energy and resources. An overview of statutory controls: Building Regulations and Health & Safety Regulations.
Module Overview	
Additional Information	This module introduces the student to construction techniques associated with domestic dwellings including building regulations and building services and develops an understanding of the performance of domestic buildings.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	SENARIO BASED	60	0	MLO1, MLO2
Centralised Exam	EXAMINATION - CLOSED BOOK	40	2	MLO3, MLO4, MLO5

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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