

# Introduction to Construction Technology

## Module Information

2022.01, Approved

### Summary Information

Module Code	4311BEUG
Formal Module Title	Introduction to Construction Technology
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 construction techniques associated with the production of high and low rise commercial and industrial framed buildings, both new build and refurbishment.
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## After completing the module the student should be able to:

### Learning Outcomes

Code	Number	Description
MLO1	1	Describe and compare a range of processes and techniques involved in the construction of the substructure work of buildings.
MLO2	2	Describe and compare a range of processes and techniques involved in the construction of the primary elements of the superstructure of buildings.
MLO3	3	Describe and compare a range of processes and techniques involved in the construction of the secondary elements and finishes of buildings.
MLO4	4	Describe and compare a range of building services systems used in buildings.

### Module Content

Outline Syllabus	Domestic buildings: Design and production. To include foundations, external envelope and openings, floors, internal walls, domestic services and installation. These elements will be considered with regards to function, performance, sustainability, durability and aesthetics. Commercial and industrial buildings- foundations and basements, structural frame types, wall claddings, roof structures and coverings, internal access provision including mechanical access provision, fire alarm, detection and fighting systems and passive measures used for protecting buildings from fire. The integration of services using structural and non-structural methods. The role of sustainability assessment methods (e.g. BREEAM, LEED) to help protect natural resources and make for more attractive property investments.
Module Overview	
Additional Information	Provides students with an introduction to the construction and technology of buildings. On the Building Services Engineering Degree Apprenticeship programme, the knowledge learning outcomes are K4, K5, K9 and the skills learning outcomes are S1, S2 and S3.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Report	50	0	MLO2, MLO3, MLO4
Centralised Exam	Examination	50	2	MLO1, MLO2, MLO3, MLO4

### Module Contacts

#### Module Leader

Contact Name	Applies to all offerings	Offerings
Ana Armada Bras	Yes	N/A

#### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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