# Introduction to Construction Technology

# Module Information

**2022.01, Approved**

## Summary Information

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| Module Code | 4210BEUG |
| 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 | 40 |
| Workshop | 20 |

## Module Offering(s)

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

## Aims and Outcomes

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| Aims | To introduce the student to construction techniques associated with construction techniques associated with the production of high and low rise commercial and industrial framed buildings, both new build and refurbishment. |

**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, including illustrations, 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

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| Outline Syllabus | • Domestic buildings- design and production issues, foundations, external envelope and openings, floors, internal walls, domestic services and installation. These elements will be considered with regards to function, performance, 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, integration of services using structural and non-structural methods. |
| Module Overview | This module introduces you to construction techniques associated with the production of high and low rise commercial and industrial framed buildings, both new build and refurbishment. |
| Additional Information | Provides students with an introduction to the construction and technology of buildings. |

## Assessments

| Assignment Category | Assessment Name | Weight | Exam/Test Length (hours) | Module Learning Outcome Mapping |
|---|---|---|---|---|
| Artefacts | Report | 50 | 0 | MLO1, 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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