

## Liverpool John Moores University

Title: INTRODUCTION TO CONSTRUCTION TECHNOLOGY  
Status: Definitive  
Code: **4210BEUG** (122320)  
Version Start Date: 01-08-2021

Owning School/Faculty: Civil Engineering and Built Environment  
Teaching School/Faculty: Civil Engineering and Built Environment

Team	Leader
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**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 62

**Total Learning Hours:** 200      **Private Study:** 138

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	40
Workshop	20

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	2500 Word Report	50	
Exam	AS2	Examination	50	2

### 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.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Describe and compare a range of processes and techniques involved in the construction of the substructure work of buildings.
- 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.
- 3 Describe and compare a range of processes and techniques involved in the construction of the secondary elements and finishes of buildings.
- 4 Describe and compare a range of building services systems used in buildings.

### **Learning Outcomes of Assessments**

The assessment item list is assessed via the learning outcomes listed:

REPORT	1	2	3	4
EXAM	1	2	3	4

### **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.*

### **Learning Activities**

Lectures are used in order to identify and explain key concepts and theories and provide detailed information on particular subject areas within the module. They help to stimulate the student's interest in the subject area. Lectures may also include guest industry speakers to add industry context to the material.

Workshops are used to engage students in more intensive discussion and activity on particular subject areas within the module. This helps shape the student's own understanding and place the lecture material in context.

### **Notes**

Provides students with an introduction to the construction and technology of buildings.