

Liverpool John Moores University

Title: INTRODUCTION TO CONSTRUCTION TECHNOLOGY
Status: Definitive
Code: **4530BEKL** (123348)
Version Start Date: 01-08-2021

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

| Team | Leader |
|-------------------|--------|
| Michael Farragher | Y |

Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 72

Total Learning Hours: 200 **Private Study:** 128

Delivery Options

Course typically offered: Runs Twice - S1 & S2

| Component | Contact Hours |
|-----------|---------------|
| Lecture | 42 |
| Workshop | 28 |

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 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, Workshops, Industry Speakers

Notes

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