

Liverpool John Moores University

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Title: CONSTRUCTION TECHNOLOGY & PRACTICE
Status: Definitive
Code: **5508BEKL** (119113)
Version Start Date: 01-08-2019

Owning School/Faculty: Built Environment
Teaching School/Faculty: Imperia Institute of Technology

Team	Leader
Martin Turley	

Academic Level: FHEQ5 **Credit Value:** 24 **Total Delivered Hours:** 86
Total Learning Hours: 240 **Private Study:** 154

Delivery Options

Course typically offered: Non Standard Year Long

Component	Contact Hours
Lecture	56
Tutorial	28

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1		50	2
Test	AS2		25	
Test	AS3		25	

Aims

To develop understanding of construction techniques associated with the production of high and low rise framed buildings, both new build and refurbishment.

To develop an understanding of the variety of design solutions available for the construction of Multi Storey Buildings

To enable students to evaluate the relative merits of the various construction forms in any given situation
To introduce the technology of building services installations for commercial and industrial buildings.

Learning Outcomes

After completing the module the student should be able to:

- 1 Analyse and illustrate the various construction and civil engineering solutions available for low and high rise building structural frames.
- 2 Evaluate the restrictions that are imposed on building design by the need to comply with legislation concerning health and safety, built form and sustainability.
- 3 Compare and contrast different design solutions and methods of construction used for high-rise and low-rise framed buildings.
- 4 Analyse the importance of sustainability in the context of the design and construction of buildings.
- 5 Evaluate the impact of new technologies on current construction and civil engineering processes for industrial and commercial buildings.
- 6 Compare and contrast alternative solutions for mechanical and electrical services and utilities services in industrial and commercial buildings.

Learning Outcomes of Assessments

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

EXAMINATION	2	3	5
TEST 1	1	4	
TEST 2	6		

Outline Syllabus

High and low rise framed building solutions with particular emphasis on:-

Demolition: Site Set Up and Options

Site Problems: Contamination and Remediation

Substructure: Foundations

Basements: Types and Grades

Structural Frames: Types and Advantages

Floors: Upper Floors

External Walls: Claddings

