Liverpool John Moores University

Title:	CONSTRUCTION TECHNOLOGY AND SERVICES 2
Status:	Definitive
Code:	5509BESG (120566)
Version Start Date:	01-08-2015
Owning School/Faculty:	Built Environment
Teaching School/Faculty:	Built Environment

Team	Leader
Paul Kenny	Y
Steve Finnegan	
Michael Farragher	
Derek King	
Mal Ashall	

Academic Level:	FHEQ5	Credit Value:	24.00	Total Delivered Hours:	72.00
Total Learning Hours:	240	Private Study:	168		

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	72.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1		30.0	
Test	AS3		50.0	
Test	AS2		20.0	

Aims

To explain and analyse the construction techniques of framed 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 forms of superstructure construction for low and high rise building structural frames.
- 2 Describe and evaluate the various forms of foundations and substructure work for multi-storey buildings.
- 3 Explain the typical remedial works to multi-storey buildings during refurbishment and adaptation work.
- 4 Analyse the importance of sustainability in the context of the design and construction of multi storey buildings.
- 5 Evaluate modern methods of construction and new renewable energy technologies in relation to industrial and commercial buildings.
- 6 Describe the range of Heating, Ventilating and Air Conditioning systems for industrial and commercial buildings.
- 7 Describe the installation and integration of utility services to multi-storey buildings.

Learning Outcomes of Assessments

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

Report	1	2	
An 8 hr practical assessment	3	4	5
Test	6	7	

Outline Syllabus

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

Demolition: Site Problems: Substructure: Basements: Structural Frames: Floors: External Walls: Roofs: Internal Access: Buildings and Fire: Service Integration: Sustainable, Intelligent Buildings: Refurbishment Technologies: Building Services: Health and Safety

Learning Activities

Lectures and tutorial workshops, supported where possible with site visits, guest lectures and videos.

Students should supplement their lecture notes with background reading; journals, digests, trade literature and also use the material that is available through electronic databases and manufacturers literature.

Notes

This module concerns the construction principles and processes associated with commercial buildings.

Students will discover that by achieving the learning outcomes as identified above their knowledge is reinforced through other associated modules.

This construction knowledge will assist students in other modules at both levels 5 and 6 and provide a suitable platform from which to launch their career into property/construction industry.