Liverpool John Moores University

Title:	CONSTRUCTION TECHNOLOGY AND SERVICES 1
Status:	Definitive
Code:	**4106BEUG** (118072)
Version Start Date:	01-08-2014
Owning School/Faculty:	Built Environment
Teaching School/Faculty:	Built Environment

Team	Leader
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Academic Level:	FHEQ4	**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		40.0	
Test	AS2		30.0	
Test	AS3		30.0	

Aims

To introduce the student to construction techniques associated with low rise domestic dwellings including building regulations and building services.

To develop an understanding of the performance of buildings and the influence of

materials and workmanship specification on performance.

Learning Outcomes

After completing the module the student should be able to:

1 Examine the issues of site selection and their influence on the feasibility of the project.
2 Explain the methods of construction typically applied in the formation of the foundations and associated substructure work of residential buildings.
3 Explain the methods of construction typically applied in the formation of the external walls of residential buildings.
4 Explain the methods of construction typically applied in the formation of the ground and upper floors of residential buildings.
5 Explain the methods of construction typically applied in the formation of the roof structure and coverings of residential buildings.
6 Explain the methods of construction of the secondary elements and finishes of residential buildings.
7 Describe the impact of sustainability and modern methods of construction have on the construction process.
8 Explain and illustrate the types, functions and parts of domestic services and their interaction with the construction form and materials.

Learning Outcomes of Assessments

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

REPORT	1	2	3	4
TIMED ONLINE ASSESSMENT 1	5	6		
TIMED ONLINE ASSESSMENT 2	7	8		

Outline Syllabus

Preliminary work associated with site selection and preparation.
Substructure - design and production issues, soils, foundations, excavations.
Superstructure – internal and external walls, flat and pitched roofs, ground and upper floors, internal finishes, domestic services and installation, sustainable construction.
Standards and Regulations- application of the approved documents, specifications

These elements will be considered with regards to function, performance, durability, cost and aesthetics.

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.

Formative assessment with ongoing feedback throughout the module.

Notes

This module concerns the construction principles and processes associated with residential buildings. In addition there is delivery of a good level of general construction knowledge that will assist students in other modules at levels 1, 2 and 3, and going forward into industry.