

Liverpool John Moores University

Title: CONSTRUCTION TECHNOLOGY AND SERVICES 1
Status: Definitive
Code: **4556BEFD** (118420)
Version Start Date: 01-08-2011

Owning School/Faculty: Built Environment
Teaching School/Faculty: Stockport College

Team	Leader
Russell Bennett	Y

Academic Level: FHEQ4
Credit Value: 24.00
Total Delivered Hours: 75.00
Total Learning Hours: 240
Private Study: 165

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	48.000
Tutorial	24.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	technological task drawing based	50.0	
Exam	AS2	choice of questions	50.0	3.00

Aims

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

To develop an understanding of the performance of buildings in use and the environmental impact of the design and production phase of a construction project.

Learning Outcomes

After completing the module the student should be able to:

- 1 Produce construction drawings that are clear and comply with the appropriate Regulations and Standards.
- 2 Examine criteria for site selection and their influence on the feasibility of the project.
- 3 Identify methods of construction typically applied in the formation of substructure and superstructure of low rise domestic houses.
- 4 Analyse alternative technologies and materials in the context of regulations for domestic structures.
- 5 Outline the component parts of basic domestic services and their interaction with the core construction components.
- 6 Discuss the environmental impact of the design and production phase of a construction project.
- 7 Identify the main requirements of the Code for Sustainable Homes in relation to domestic buildings.

Learning Outcomes of Assessments

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

REPORT	1	2	3	6
EXAM	4	5	7	

Outline Syllabus

Preliminary work associated with site selection and investigation.

Substructure – foundations, soil types and classification in addition to support.

Superstructure – external envelope, openings, floors, internal walls and partitions as well as roofs.

Domestic services and installation. Water, drainage, electricity gas, heating and lighting.

Overview of Code for Sustainable Homes

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

Learning Activities

Lectures and workshops, supported where possible with site visits and other relevant learning material. 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.

References

Course Material	Book
Author	Riley, M. & Cotgrave, A.
Publishing Year	2008
Title	Construction Technology 1
Subtitle	House Construction
Edition	2nd Edition
Publisher	Palgrave Macmillan
ISBN	0230203620

Course Material	Book
Author	Marshall, D. & Worthing, D.
Publishing Year	2006
Title	Construction of Houses
Subtitle	
Edition	4th Edition
Publisher	Estates Gazette Ltd.
ISBN	072820486X

Course Material	Book
Author	Chudley, R. & Greeno, R.
Publishing Year	2010
Title	Building Construction Handbook
Subtitle	incorporating current building & construction regulations
Edition	8th Edition.
Publisher	Butterworth-Heinemann
ISBN	1856178056.

Notes

This module develops the construction principles and processes associated with low rise residential buildings.