

Liverpool John Moores University

Title: TECHNOLOGY 'A'
Status: Definitive
Code: **4007BEHN** (102273)
Version Start Date: 01-08-2011

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

Team	Leader
John Gammon	Y

Academic Level: FHEQ4
Credit Value: 12.00
Total Delivered Hours: 38.00
Total Learning Hours: 120
Private Study: 82

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	24.000
Tutorial	12.000

Grading Basis: BTEC

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	closed book	50.0	2.00
Report	AS2	project documentation	50.0	

Aims

To introduce the student to standard design forms, site evaluation methods and construction techniques used in low rise buildings and the various causes of decay and deterioration of these buildings.

Learning Outcomes

After completing the module the student should be able to:

- 1 Analyse and compare site evaluation techniques, site investigation techniques and methods of soil classification.
- 2 Analyse and evaluate various forms of sub-structure and superstructure used in low rise buildings.
- 3 Produce details of various forms of construction techniques used in low rise buildings.
- 4 Identify the various causes of decay and deterioration of buildings.

Learning Outcomes of Assessments

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

EXAM	1	2	4
CW	2	3	

Outline Syllabus

Preliminary work associated with site selection and preparation.

Design and construction techniques for Substructure - soils, contaminated issues, earth support, foundations.

Design and construction techniques for Superstructure - external envelope and openings, internal walls and partitions, finishes.

Aspects covering decay and deterioration of materials and their impact on the whole life of a building.

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

Learning Activities

Lectures, tutorials and studio sessions will be supported where possible with site visits, slides and videos. Part time students are encouraged to input their own experiences into their work and into discussions.

Students should supplement their lecture notes with background reading journals, digests, trade literature, etc.

References

Course Material	Book
Author	BRE
Publishing Year	0
Title	Digests :Relevant to Construction
Subtitle	
Edition	

Publisher	BRE
ISBN	

Course Material	Book
Author	ODPM
Publishing Year	0
Title	Current Building Regulations
Subtitle	
Edition	
Publisher	HMSO
ISBN	

Course Material	Book
Author	Various
Publishing Year	0
Title	Standards/Codes of Practice :Electronic Sources/CD Roms
Subtitle	
Edition	
Publisher	
ISBN	

Course Material	Book
Author	Riley, M. & Cotgrave, A.
Publishing Year	2008
Title	Construction Technology 1: House Construction
Subtitle	
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	2006
Title	Building Construction Handbook: incorporating current building & construction regulations
Subtitle	
Edition	6th Edition
Publisher	Butterworth-Heinemann

ISBN	0750668229
-------------	------------

Course Material	Book
Author	Cooke, R.
Publishing Year	2007
Title	Building in the 21st Century
Subtitle	
Edition	
Publisher	Blackwell Publishers
ISBN	1405156554

Notes

The module is designed to equip the student with the necessary skills and competencies in construction principles associated with low rise buildings, including design issues, production issues and the performance of materials in these buildings.