

## Liverpool John Moores University

Title: CIVIL ENGINEERING CONSTRUCTION 'A'  
Status: Definitive  
Code: **4010BEHN** (102277)  
Version Start Date: 01-08-2011

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

Team	Leader
John McLoughlin	Y

**Academic Level:** FHEQ4  
**Credit Value:** 12.00  
**Total Delivered Hours:** 39.00  
**Total Learning Hours:** 120  
**Private Study:** 81

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	24.000
Tutorial	12.000

**Grading Basis:** BTEC

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	unseen	50.0	3.00
Essay	AS2	assignment	50.0	

### Aims

*To provide the student with an introduction to some of the common methods used in civil engineering construction activities.*

*To introduce the student to the process of method selection and resource usage in these construction activities.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate knowledge and understanding of the methods and resources used in earthworks activities.
- 2 Describe the methods and resources used in substructure and other below ground activities.
- 3 Describe the methods and resources used in the construction of superstructures.
- 4 Demonstrate knowledge and understanding of the hazards arising from construction activities, provide an assessment of the risks and of the means of managing them.
- 5 Select appropriate methods and resources for construction activities having proper regard for safety, environmental, quality, technical and economic considerations.

### Learning Outcomes of Assessments

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

EXAM	1	2	3	4	5
CW	1	2	3	4	5

### Outline Syllabus

*Earthworks-cuttings and embankments, slope stability, dealing with groundwater, deep excavations and trenching.*  
*Foundation construction and piling.*  
*Drainage and utility work.*  
*Culverts and underpasses.*  
*Bridgeworks.*  
*Building structures.*  
*Hazard identification and risk management for construction activities.*  
*Management of construction activities.*

### Learning Activities

Lectures & tutorials.

### References

<b>Course Material</b>	Book
<b>Author</b>	Holmes, R.
<b>Publishing Year</b>	1995
<b>Title</b>	Introduction to Civil Engineering Construction
<b>Subtitle</b>	
<b>Edition</b>	2ed
<b>Publisher</b>	
<b>ISBN</b>	1899769307

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<b>Course Material</b>	Book
<b>Author</b>	Tomlinson, M.J.
<b>Publishing Year</b>	2001
<b>Title</b>	Foundation Design and Construction
<b>Subtitle</b>	
<b>Edition</b>	7ed
<b>Publisher</b>	
<b>ISBN</b>	0130311804

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### **Notes**

The module provides the student with an introduction to some of the common methods used in civil engineering construction activities, and introduces the student to the process of method selection and resource usage in these construction activities.