

Liverpool John Moores University

Title: ADVANCED SITE SURVEYING
Status: Definitive
Code: **5020BEUG** (102766)
Version Start Date: 01-08-2011

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

Team	Leader
Fiona Borthwick	Y

Academic Level: FHEQ5
Credit Value: 12.00
Total Delivered Hours: 100.00
Total Learning Hours: 120
Private Study: 20

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	24.000
Off Site	40.000
Practical	24.000
Tutorial	12.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Surveying Assignment	50.0	
Portfolio	AS2	Fieldwork	50.0	

Aims

To provide students with the ability to conduct land and site surveys using the appropriate technology and to carry out setting out procedures.

Learning Outcomes

After completing the module the student should be able to:

- 1 Carry out practical exercises using surveying equipment including levels, theodolites and total stations.
- 2 Calculate areas, volumes, reduced levels and positions of existing landmarks using site data.
- 3 Identify and examine key data required in setting out procedures.
- 4 Carry out a setting out exercise.
- 5 Examine the application of new technologies and procedures within a construction context.
- 6 Plot survey data.

Learning Outcomes of Assessments

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

SURVEYING	2	3	5		
ASSIGNMENT					
FIELDWORK	1	2	3	4	6

Outline Syllabus

Site Surveying - use of OS maps, levelling applications, traverse surveying, use of theodolites and total stations.

Setting Out - principles and requirements, horizontal and vertical control.

New applications - GPS and GIS.

Learning Activities

Lectures, tutorials and practical surveying work.

References

Course Material	Book
Author	Muskett, J.
Publishing Year	1995
Title	Site Surveying
Subtitle	
Edition	2nd
Publisher	Blackwell
ISBN	

Course Material	Book
Author	Clancy, J.
Publishing Year	1991
Title	Site Surveying and Levelling

Subtitle	
Edition	2nd
Publisher	Edward Arnold
ISBN	

Course Material	Book
Author	Irvine, W.
Publishing Year	1995
Title	Surveying for Construction
Subtitle	
Edition	4th
Publisher	McGraw-Hill
ISBN	

Course Material	Book
Author	Clarke, K.
Publishing Year	2002
Title	Getting Started with Geographic Information Systems
Subtitle	
Edition	
Publisher	Pearson Education
ISBN	

Notes

This module is to provide students with the practical skills and knowledge for the Industrial Training placement and is relevant to all working in construction.