

## Liverpool John Moores University

Title: SURVEYING PROJECTS  
Status: Definitive  
Code: **4554BEFD** (118317)  
Version Start Date: 01-08-2011

Owning School/Faculty: Built Environment  
Teaching School/Faculty: Liverpool Community College

Team	Leader
Aseel Hussien	Y

**Academic Level:** FHEQ4      **Credit Value:** 24.00      **Total Delivered Hours:** 96.00  
**Total Learning Hours:** 240      **Private Study:** 144

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	24.000
Practical	48.000
Tutorial	24.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Technology	AS1		30.0	
Report	AS2		35.0	
Report	AS3		35.0	

### Aims

*To provide a mathematical base for study of construction and surveying related subjects.*

*To enable students attain basic practical skills and knowledge required in order to undertake land and building surveys.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Use algebraic, geometrical and trigonometrical techniques.
- 2 Apply mathematical techniques and procedures to provide solutions to a range of problems in surveying, design and construction of buildings.
- 3 Carry out practical land surveying exercises using key surveying instruments.
- 4 Calculate and use information required for computation of site levels and co-ordinates for the purpose of setting-out construction works.
- 5 Record information concerning the size, shape and condition of buildings using basic procedures and logic.
- 6 Produce building survey reports.

## Learning Outcomes of Assessments

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

TECHNOLOGICAL TASK	1	2
LAND SURVEYING REPORT	3	4
BUILDING SURVEYING REPORT	5	6

## Outline Syllabus

*Mathematical content to include:*

*Algebra.*

*Geometry.*

*Trigonometry.*

*Surveying content to include:*

*The use of surveying instruments in setting-out and control of construction and civil engineering works.*

*Examination of the use of and application of electronic instruments used for surveying.*

*Analysis of mathematical techniques required for computation of site levels co-ordinates for the purpose of setting-out construction works.*

*Land Surveying - use of maps, levelling and chain surveying, plotting data.*

*Building Surveys - building inspection procedures and measurement techniques, recording site obtained information.*

*Preparation of survey reports.*

## Learning Activities

Lectures, seminars and practical survey work.

## References

<b>Course Material</b>	Book
<b>Author</b>	Seward, D.
<b>Publishing Year</b>	2009
<b>Title</b>	Understanding Structures
<b>Subtitle</b>	Analysis, Materials, Design'
<b>Edition</b>	4th Edition
<b>Publisher</b>	Palgrave Macmillan
<b>ISBN</b>	0230212638.

<b>Course Material</b>	Book
<b>Author</b>	Croft, A. and Davison, R.
<b>Publishing Year</b>	2006
<b>Title</b>	Foundation Maths
<b>Subtitle</b>	
<b>Edition</b>	4th Edition
<b>Publisher</b>	Prentice Hall
<b>ISBN</b>	0131979213.

<b>Course Material</b>	Book
<b>Author</b>	Bannister, A.
<b>Publishing Year</b>	1998
<b>Title</b>	Surveying
<b>Subtitle</b>	
<b>Edition</b>	7th Edition
<b>Publisher</b>	Longman
<b>ISBN</b>	0582302498.

<b>Course Material</b>	Book
<b>Author</b>	Noy, E.
<b>Publishing Year</b>	2005
<b>Title</b>	Building Surveys and Reports'
<b>Subtitle</b>	
<b>Edition</b>	3rd Edition
<b>Publisher</b>	Blackwell Science
<b>ISBN</b>	1405121475

<b>Course Material</b>	Book
<b>Author</b>	Cotgrave, A. & Borthwick, F.
<b>Publishing Year</b>	2003
<b>Title</b>	Site Surveying Lecturers Toolkit
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	SLICE University of Plymouth.
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Muskett, J.
<b>Publishing Year</b>	1995
<b>Title</b>	'Site Surveying'
<b>Subtitle</b>	
<b>Edition</b>	2nd Edition
<b>Publisher</b>	Wiley-Blackwell
<b>ISBN</b>	0632038489.

<b>Course Material</b>	Book
<b>Author</b>	Clancy, J.
<b>Publishing Year</b>	1991
<b>Title</b>	Site Surveying and Levelling
<b>Subtitle</b>	
<b>Edition</b>	2nd Edition
<b>Publisher</b>	Butterworth-Heinemann
<b>ISBN</b>	0340505478.

<b>Course Material</b>	Book
<b>Author</b>	Glover, P.
<b>Publishing Year</b>	2006
<b>Title</b>	Building Surveys
<b>Subtitle</b>	
<b>Edition</b>	7th Edition
<b>Publisher</b>	Butterworth-Heinemann
<b>ISBN</b>	9781856176064

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## Notes

The module is concerned with the application of simple quantitative techniques to problems in the construction industry. It also provides students with the practical skills and knowledge required in order to undertake land, site and building surveys and present this data in the appropriate documentation.