

Liverpool John Moores University

Title: SURVEYING PROJECTS
Status: Definitive
Code: **4549BEFD** (116683)
Version Start Date: 01-08-2011

Owning School/Faculty: Built Environment
Teaching School/Faculty: South Cheshire College

Team	Leader
Lynne Bell	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	Technological task: Application of mathematical theory to practical problems	30.0	
Report	AS2	Practice and report: Building surveying Project	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:

MATHS	1	2
TECHNOLOGICAL TASK		
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

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

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

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

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

Course Material	Book
Author	Cotgrave, A. & Borthwick, F.
Publishing Year	2003
Title	Site Surveying Lecturers Toolkit
Subtitle	
Edition	

Publisher	SLICE University of Plymouth.
ISBN	

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

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

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

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.