

## Liverpool John Moores University

Title: SITE SURVEYING PROCEDURES  
Status: Definitive  
Code: **4006BEHN** (102272)  
Version Start Date: 01-08-2011

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

Team	Leader
Russell Bennett	Y

**Academic Level:** FHEQ4      **Credit Value:** 12.00      **Total Delivered Hours:** 57.50  
**Total Learning Hours:** 120      **Private Study:** 62

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	18.000
Off Site	20.000
Practical	12.000
Tutorial	6.000

**Grading Basis:** BTEC

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	unseen	50.0	1.50
Report	AS2	fieldwork exercises	50.0	

### Aims

*To develop studies in surveying to provide an overview of surveying and leveling theory and to ensure the application of current practice and instrumentation in surveying work, pertinent to the construction and property sector.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Carry out a field exercise to illustrate methods in leveling: booking, calculation and application.
- 2 Carry out a field exercise to illustrate methods of angular measurement: booking, calculation and application.
- 3 Carry out exercises in area control by optical reading and electronic theodolites; booking, calculation and application.
- 4 Produce completed booking sheets showing all calculations in the areas of levelling, angular measurements and co-ordinates.
- 5 Carry out exercises in setting out and controlling construction works.

### Learning Outcomes of Assessments

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

EXAM	4	5	
CW	1	2	3

### Outline Syllabus

*Theory and application of the range of traditional and modern surveying procedures and equipment: linear measurement, levels, angular measurement and vertical alignment instruments.*

*Application of field data for cartographic detailing and setting out. Application of electronic and laser instruments and the use of computer packages in surveying.*

### Learning Activities

As surveying is a practical subject, formal lectures and tutorial exercises are a small proportion of the learning support time. Practicals using the surveying equipment are used to introduce the students to the equipment and to aid with the understanding of booking and calculating data. The practicals are task orientated and students are encouraged to organise and manage their own learning.

### References

<b>Course Material</b>	Book
<b>Author</b>	Allan, A.L.
<b>Publishing Year</b>	1997
<b>Title</b>	Practical Surveying and Computations
<b>Subtitle</b>	
<b>Edition</b>	2nd Edition

<b>Publisher</b>	Laxtons
<b>ISBN</b>	0750636556

<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>	Irvine, W.
<b>Publishing Year</b>	1995
<b>Title</b>	Surveying for Construction
<b>Subtitle</b>	
<b>Edition</b>	4th Edition
<b>Publisher</b>	McGraw-Hill
<b>ISBN</b>	0077079981

<b>Course Material</b>	Book
<b>Author</b>	Uren, J. & Price, W.F.
<b>Publishing Year</b>	1994
<b>Title</b>	Surveying for Engineers
<b>Subtitle</b>	
<b>Edition</b>	3rd Edition
<b>Publisher</b>	Macmillan
<b>ISBN</b>	0333577051

<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>	Blackwell Science
<b>ISBN</b>	0632038489

<b>Course Material</b>	Book
<b>Author</b>	Kavanagh, B.F.
<b>Publishing Year</b>	2003
<b>Title</b>	Surveying with Construction Applications
<b>Subtitle</b>	
<b>Edition</b>	5th Edition
<b>Publisher</b>	Prentice Hall
<b>ISBN</b>	0130482153

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## **Notes**

The module is designed to equip the student with the necessary level of skills and competencies in the following areas: leveling, contouring, angular and traversing measurement, plotting and setting out.