

Liverpool John Moores University

Title: CONSTRUCTION AND SURVEYING PROJECT
Status: Definitive
Code: **5504UGIM** (118727)
Version Start Date: 01-08-2011

Owning School/Faculty: Built Environment
Teaching School/Faculty: Isle of Man College

Team	Leader
Mohd Nazali Mohd Noor	

Academic Level: FHEQ5
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
Off Site	24.000
Practical	24.000
Tutorial	24.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS2		30.0	
Report	AS3		55.0	
Presentation	AS1		15.0	

Aims

To introduce the students to the basic principles of land surveying and to develop the skills in using key surveying equipment to conduct land and site surveys and setting out procedures.

To introduce the students to the procedures required for the successful management of construction projects from pre-tender stage until completion; based on a current

and professionally recognised project life cycle and information from other modules on the course.

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 Carry out calculations using field data.
- 3 Examine key data required in setting out procedures.
- 4 Produce a construction project simulated environment, using technical information obtainable through research and other modules on the course.
- 5 Implement the creating of construction activities and their logical sequence; carryout typical risk assessment pertaining to the Health and Safety of the working environment, and report them in a practical manner as would be the case in a real project.
- 6 Develop and analyse project data using a current project planning software system such as Powerproject and present the data using industrial standard software systems.
- 7 Produce technical reporting systems suitable for project stakeholders, and demonstrate their ability to work in groups.
- 8 Present technical information in relation to the project.
- 9 Demonstrate proficiency in personal development planning (PDP) using e-portfolio programmes and other ICT systems.

Learning Outcomes of Assessments

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

PRACTICAL	1	3					
REPORT	2	4	5	6	7	9	
PRESENTATION	8						

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.

Preparation of a simulated project environment starting with Pre-contract phases to post contract phases.

Preparation of plans (site plans, activities, risk assessment plans, health and safety plans) that would reflect the given project.

Produce project data that is necessary for analysis for all project stakeholders.

Transferable skills will be developed during the undertaking of the project and progress mapped using e-portfolio software.

Project information reporting systems to help decision making.

Learning Activities

Lectures, tutorials and practicals.

References

Course Material	Book
Author	Muskett, J
Publishing Year	1995
Title	Site Surveying
Subtitle	
Edition	2nd
Publisher	Blackwell
ISBN	9780632038480

Course Material	Book
Author	Clancy, J
Publishing Year	1991
Title	Site Surveying and Levelling
Subtitle	
Edition	2nd
Publisher	Butterworth Heinemann
ISBN	9780340505472

Course Material	Book
Author	Shepherd, K.
Publishing Year	2005
Title	Presenting at Conferences, Seminars and Meetings'
Subtitle	
Edition	
Publisher	Sage
ISBN	000722268

Course Material	Book
Author	Cooke B., Williams, P
Publishing Year	2004
Title	Construction Planning, Programming and Control
Subtitle	
Edition	2nd
Publisher	Blackwell
ISBN	1405121483

Notes

This module should help to equip the students with the necessary skills should they want to carry out an industrial placement year between the second and final year.