

Liverpool John Moores University

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Title: CONSTRUCTION AND SURVEYING PROJECT
Status: Definitive
Code: **5504BEKL** (119117)
Version Start Date: 01-08-2019

Owning School/Faculty: Built Environment
Teaching School/Faculty: Imperia Institute of Technology

Team	Leader
John McLoughlin	
Fiona Borthwick	

Academic Level: FHEQ5 **Credit Value:** 24 **Total Delivered Hours:** 84
Total Learning Hours: 240 **Private Study:** 156

Delivery Options

Course typically offered: Non Standard Year Long

Component	Contact Hours
Lecture	28
Off Site	14
Practical	14
Tutorial	28

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Presentation	AS1		15	
Report	AS2		30	
Report	AS3		55	

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:

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

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.

Notes

This module introduces students to the basic principles of land surveying develops the skills in using key surveying equipment.