

**Summary Information**

<b>Module Code</b>	5312BEUG
<b>Formal Module Title</b>	Geomatics
<b>Owning School</b>	Civil Engineering and Built Environment
<b>Career</b>	Undergraduate
<b>Credits</b>	20
<b>Academic level</b>	FHEQ Level 5
<b>Grading Schema</b>	40

**Module Contacts**

**Module Leader**

Contact Name	Applies to all offerings	Offerings
Layth Kraidi	Yes	N/A

**Module Team Member**

Contact Name	Applies to all offerings	Offerings
Volkan Ezcan	Yes	N/A

**Partner Module Team**

Contact Name	Applies to all offerings	Offerings
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**Teaching Responsibility**

<b>LJMU Schools involved in Delivery</b>
Civil Engineering and Built Environment

**Learning Methods**

Learning Method Type	Hours
Lecture	11
Practical	68
Workshop	22

### Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-CTY	CTY	January	12 Weeks

### Aims and Outcomes

<b>Aims</b>	To introduce the principles and techniques involved in land surveying and setting out on site and introduce the use of novel geospatial information management systems and tools for the surveying, inspection and monitoring of construction works.
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### Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Carry out practical surveys and setting out procedures using industry standard surveying equipment.
MLO2	Undertake relevant surveying calculations using gathered field data.
MLO3	Undertake setting out calculations using construction drawings.
MLO4	Use relevant data processing, drawing and modelling software with gathered field data.

### Module Content

Outline Syllabus
Introduction to surveying and levelling Angle and distance measurements Traverse surveying calculations Setting out techniques and procedures for control surveys Introduction to geospatial data management methods and technologies Safety and risk assessment in surveying

### Module Overview

Additional Information
Geomatics is the collection, processing, analysis, presentation and management of spatial information which the student will have developed a knowledge and skill of during this module with a particular focus on the construction process.

## Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Portfolio	SURVEYING PRACTICAL	40	0	MLO1, MLO2, MLO3
Portfolio	REPORT BASED ON FIELDWORK	60	0	MLO1, MLO2, MLO4, MLO3