

Measurement III

Module Information

2022.01, Approved

Summary Information

Module Code	6304BEUG
Formal Module Title	Measurement III
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Civil Engineering and Built Environment

Learning Methods

Learning Method Type	Hours
Lecture	11
Workshop	33

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To consolidate learning to date in the subject of measurement using information technology; and to choose among available measurement protocols to quantify complex construction and engineering projects.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Appraise and apply the rules of the standard method of measurement to prepare project documentation related to complex construction, building services and civil engineering projects.
MLO2	2	Evaluate emerging practices of the Quantity Surveyor in relation to sustainable design, and environmental and performance considerations.
MLO3	3	Critically evaluate the building information modelling protocols, processes, and software appropriate to the role of the Quantity Surveyor / Estimator working in a collaborative environment throughout the project life cycle.

Module Content

Outline Syllabus	Cost planningBenchmarkingValue engineeringBuilding services measurementLarge scale and high rise construction projects measurement.Civil engineering measurementTender documentation for a variety of different procurement options.BIM protocolsBIM ProcessesApplication and evaluation of BIM software applicable to the role of the Quantity Surveyor/ Estimator.Development of contract practice skills in relation to pre and post contract management
Module Overview	
Additional Information	This module will provide students with an understanding of BIM as it relates to the QS and engineering measurement

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Measurement Report	50	0	MLO1, MLO3
Report	Software Assignment	50	0	MLO1, MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Duga Ewuga	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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