

## MODULE DESCRIPTOR

### Module Title

Measurement 3			
Reference	SU4070	Version	4
Created	July 2021	SCQF Level	SCQF 10
Approved	September 2015	SCQF Points	15
Amended	September 2021	ECTS Points	7.5

### Aims of Module

To provide the student with the ability to recognise the concept of precontract quantification of building and civil engineering construction work and the skills required for the preparation of Bills of Quantities

### Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Identify and critically appraise appropriate methods of recording measurements from drawn information and associated descriptions of works, as defined in the current RICS New Rules of Measurement and ICE Civil Engineering Standard Method of Measurement.
- 2 Apply and justify appropriate measurement techniques to given scenarios.

### Indicative Module Content

The module will facilitate investigation of the use of Bills of Quantities (BQs), formats and techniques adopted to ensure Quality assurance of the final BQ. An introduction to and application of the current methods of measurement for building works and civil engineering works, including the co-ordinated project information initiative (CPI). The interpretation of graphical and textual project information; mensuration techniques and conventional methods of booking and preparing dimensions. Students will be expected to use BIM related software during the course of this module. A significant part of this module includes collaborative teamworking.

### Module Delivery

This is predominantly a workshop based module with Tutor support. There will be a limited number of key lectures, with student centred learning based upon core texts. Students will work collaboratively during workshops and tutorials.

**Indicative Student Workload**

	Full Time	Part Time
Contact Hours	30	N/A
Non-Contact Hours	120	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

**ASSESSMENT PLAN**

If a major/minor model is used and box is ticked, % weightings below are indicative only.

**Component 1**

Type:	Coursework	Weighting:	100%	Outcomes Assessed:	1, 2
Description:	The assessment relates to the creation of a draft Bill of Quantities for a given scenario.				

**MODULE PERFORMANCE DESCRIPTOR****Explanatory Text**

The overall module grade is based on 100% weighting of Component 1 (Coursework). An overall minimum grade D is required to pass the module. Non-submission will result in an NS grade.

Module Grade	Minimum Requirements to achieve Module Grade:
A	A
B	B
C	C
D	D
E	E
F	F
NS	Non-submission of work by published deadline or non-attendance for examination

**Module Requirements**

Prerequisites for Module	None, in addition to course entry requirements.
Corequisites for module	None.
Precluded Modules	None.

**ADDITIONAL NOTES**

Where appropriate, mixed discipline team working and the use of IT enabled environments will be encouraged.

**INDICATIVE BIBLIOGRAPHY**

- 1 ICE (1991), CESMM3: Civil engineering standard method of measurement, Institution of Civil Engineers (Great Britain), ISBN: 0727715615
- 2 Seeley, I. H (2001), Civil engineering quantities, Palgrave, ISBN: 0333800745
- 3 Barnes, M (1992), CESMM3 handbook : a guide to the financial control of contracts using the Civil Engineering Standard Method of Measurement, Thomas Telford, ISBN: 072773346X
- 4 RICS, (2012), New Rules of Measurement 2 Detailed Measurement for Building Works, RICS Publication, London, ISBN 9781842197165
- 5 Seeley, I. H (1989) Advanced building measurement , ISBN: 0333485424