

Liverpool John Moores University

Title: MEASUREMENT PROCEDURES FOR CONSTRUCTION (MPC)
Status: Definitive
Code: **5505ICPDQS** (127003)
Version Start Date: 01-08-2021

Owning School/Faculty: Civil Engineering and Built Environment
Teaching School/Faculty: ICBT, Colombo

Team	Leader
Alison Cotgrave	Y

Academic Level: FHEQ5
Credit Value: 15
Total Delivered Hours: 45

Total Learning Hours: 150
Private Study: 105

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	15
Tutorial	30

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Coursework (3500 words)	100	

Aims

Aim(s) of the module is to demonstrate understanding & apply principles of measurements to produce Bill of Quantities of various types & forms of buildings structures, structural elements, internal, external finishing works & related services and also to apply principles of measurements to produce Bill of Quantities of civil engineering works.

Learning Outcomes

After completing the module the student should be able to:

- 1 Identify standard methods & techniques of measurements in building works, related services & external works and civil engineering works.
- 2 Assess & apply various standards & Code of Procedure or the measurement of building works, related services & external works and civil engineering works.
- 3 Apply principles & codes of measurement to produce un-priced/priced Bill of Quantities related to civil engineering works.
- 4 Analyse computer-based tools & applications of measurements and future of Quantity Surveying practice with advance IT applications for measurement works.

Learning Outcomes of Assessments

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

Coursework	1	2	3	4
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Outline Syllabus

Techniques & methods of taking off measurements from design details: Takeoff sheets, abstract sheet, query sheets

*Taking off site measurement (Actual measurement): Joint measurement procedures
Common mistakes & misconceptions of taking off measurements*

Standards & Code of Procedure of measurement of building works, related services & external works and civil engineering works: SMM7/ CESMM3/ NRM2

Use SMM7/ CESMM3 /NRM2 and take-off measurements

Preparation of complete Bill of Quantities (Priced)

Introduction to computer based tools for taking off measurements: CATO systems

Learning Activities

Students will be supported in their learning, to achieve the above learning outcomes, in the following ways:

By a series of lectures and theoretical approach together with numerous tutorials to identify & assess standard methods & techniques of measurements in building works, related services & external works and civil engineering works, various standards & code of procedure of taking-off measurement in building works, related services & external works and civil engineering works.

In-class practical sessions and group activities to apply & produce principles & codes of measurement to produce Bill of Quantities related of building & civil engineering works.

Self-managed studies to familiarize methods of taking off measurements from complex design details, standard codes of taking off measurements, description writing & incorporate schedule of rates to produce Bill of Quantities.

Techniques & methods of taking off measurements, Standards & code of procedure of taking off measurements & preparation of Bill of Quantities are some key features

of this module.

A recommended resource list - indicating key reading, virtual and physical learning assistance, is provided to help enable students to undertake self-directed study.

Notes

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