

Liverpool John Moores University

Title: MEASUREMENT FOR CONSTRUCTION WORKS
Status: Definitive
Code: **4509ICBTQS** (128328)
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: FHEQ4 **Credit Value:** 15 **Total Delivered Hours:** 77

Total Learning Hours: 150 **Private Study:** 73

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	45
Practical	15
Tutorial	15

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Assignment (1500 words)	30	
Exam	AS2	Examination	70	2

Aims

Aim(s) of the module is to understand & 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.
- 2 Assess various standards & Code of Procedure of the measurement of building works.
- 3 Demonstrate the knowledge & apply principles & codes of measurement to produce un-priced/priced Bill of Quantities related to building construction.
- 4 Prepare preamble and preliminary items.

Learning Outcomes of Assessments

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

Assignment	1	4
Examination	2	3

Outline Syllabus

Techniques & methods of taking off measurements from design details: Take-off 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: SMM7/ NRM2
Use of SMM7/ NRM2 and take-off measurements*

*Preparation of complete Bill of Quantities (Priced) including Preliminary Bill,
Preambles, Provisional Sum & Prime Cost.*

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, various standards & code of procedure of taking-off measurement in building works.

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

Self-managed studies to familiarize methods of taking off measurements from 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

N/A