

Liverpool John Moores University

Title: TENDERING AND ESTIMATION FOR CONSTRUCTION (TEC)
Status: Definitive
Code: **5507ICBTQS** (126958)
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: 62
Total Learning Hours: 150
Private Study: 88

Delivery Options

Course typically offered: S2 and Non Std S2 (S2 for Jan)

Component	Contact Hours
Lecture	45
Workshop	15

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Assessment (1500 Words)	30	
Exam	AS2	Examination	70	2

Aims

Aim(s) of the module is to demonstrate an understanding of tendering processes of various construction contracts and to apply methods & techniques of construction estimation to produce estimates in different phases of a building and civil engineering construction contracts.

Learning Outcomes

After completing the module the student should be able to:

- 1 Identify traditional & modern types, processes of tendering in building and civil engineering construction contracts.
- 2 Assess and apply various standards code of practice & rules of tendering in building and civil engineering construction contracts.
- 3 Apply estimation techniques to produce estimates in various type of building and civil engineering construction contracts.
- 4 Appraise computer based tools and applications of estimation & future dimensions of Quantity Surveying practice with advance IT applications for estimation works.

Learning Outcomes of Assessments

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

Coursework	1	4
Examination	2	3

Outline Syllabus

Methods of Tendering & procurement routs: Open, selective, negotiated, competitive, serial, framework, Single-stage and two-stage, management • Tender evaluation and Tender report

Form of bids (Standard Bidding Documents) and tendering documentation: Introduction to FIDIC/ CIDA & compilation of tender documents using standard formats

Tender documentation: Advertisement for Bids, Information for Bidders, Bid Bond, Bidder qualifications, Invitation, Offer, Acceptance, Award, Securities & Bonds "

Schedule of rates and its application to calculate unit rates: labour/ plants & machinery of civil & building works. Unit rate preparation for BOQ: Use of BSR/ NRM 2

Operational & commercial factors to produce estimates

Mark-ups: Profits & overheads

Provisional & Prime cost sum

Introduction to RIBA Plan of work 2013 and stages of tendering

Introduction to e-tendering

Software packages for estimation work: MS Excel

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 of tendering in building & civil engineering works and various standards rules & code of practice in tendering.

In-class practical sessions and activities to apply rules/ codes of tendering to produce estimates related of building & civil engineering works in different forms & phases.

Self-managed studies to familiarize methods of computer based tools and applications of estimation & future dimensions of quantity surveying practice with advance IT applications for estimation works.

Tendering process & commercial management, Standard rules & Code of Procedure of tendering, tendering documentation and cost estimation are 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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