

Faculty of Engineering & Technology

Quantity Surveying and Cost Control

Information :

Course Code : SCM 552

Level : Undergraduate

Course Hours : 2.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

Title	Name	Office hours
Lecturer	RANA NABIL FATTOUH KHALLAF	2
Lecturer	Dina Mahmoud Mohamed Elsayed Mansour	
Teaching Assistant	Ahmed Salah Rashad Ahmed Abdelhakk	6

Area Of Study :

- A. Understand the different techniques of estimating.
- B. Understand the quantity take-off and quantity working-off
- C. Understand the building master format and coding
- D. To be familiar with the various parts and aspects of a complete set of construction documents.
- E. Develop tendering documents, balanced and un-balanced bill
- F. To be familiar with the methods used to obtain a reasonable cost estimate and be aware of some current cost figures.
- G. To be sensitizing to the cost of construction, to become aware and more critical of methods and materials used in the contract document

Description :

Approximate estimate, Detailed estimate: quantity survey, labor cost, equipment cost, subcontractor cost, purchasing orders, indirect cost, Bid calculation, Unit cost estimate, Cost planning, Traditional cost control methods, Network base cost control methods.

Course outcomes :

a.Knowledge and Understanding: :

- 1 - - Identify areas in the construction sector where knowledge of quantity surveying is necessary
- 2 - Define basic concepts of quantity surveying and cost estimate.

b.Intellectual Skills: :

- 1 - Apply Standard Method of Measurement techniques and rules in measuring and describing civil engineering works
- 2 - An ability to design a bid documents, perform quantity take-off, perform quantity working-off, and develop project item specification,
- 3 - - Compare and assess different systems by which clients procure construction projects and examine the role, application and administration of civil engineering contracts.

c.Professional and Practical Skills: :

- 1 - An ability to design a bid documents, perform quantity take-off, perform quantity working-off, and develop project item specification.

2 -	Ability to identify different types of construction cost estimate.
3 -	An ability to identify, formulate and solve engineering problems related to balanced bid and un-balanced bid preparation

d.General and Transferable Skills: :

1 -	The skill of using software in quantity surveying and cost estimate.
2 -	The broad education necessary to understand the impact of developing economic bid form that grantee contractor has realistic competitive bid.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to Construction Estimating Process	4	2	2
Types of Estimate	12	6	6
Quantity surveying	16	8	8
Cost Estimating and types of resources	4	2	2
Balanced bid and unbalanced bid	4	2	2
Develop project specification and bid item	8	4	4
Stages for tender preparation and project cost system	8	4	4

Teaching And Learning Methodologies :

Class Lectures
Tutorials
Practicals

Course Notes :

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Recommended books :

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Periodicals :

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Web Sites :

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