



College: Engineering

Department: Civil Engineering

Course Title: Quantity

Course No: 0903406

Credit Hours: 2 C.H.

Semester: 2020/2021

### About The Course

Course Title: Quantity

Class:1

Course No: 0903406

Credit Hours: 2 C.H.

Lecture Room:204

Obligatory/ Optional: Obligatory

Text Book: Willis's Elements of Quantity Surveying ( slected chapters); tenth edition;  
Blackwell

### The Instructor

Name: Dr. Dr. Hesham Al Sharie

Title: Assistant Professor

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## Course Description

The quantity surveying module is the major one covering understanding plans and specifications; using standard forms; and performing quantity takeoffs of major civil works: excavations, concrete, reinforced steel, lumber, masonry, tiles, plastering, sanitary, and painting. Principles of electro/mechanical works will also be studied.

## Course Objectives

To provide an understanding plans and specifications; using standard forms; and performing quantity takeoffs of major civil works

## Learning Outcome

After successfully completing this course, the students should be able to:

- 1- To develop firm basic understanding of quantity takeoffs of major civil

## Course Outline and Time schedule

Week	Topic	Chapter Reading Assignments
1/16	Introductions of quantities.	Chapter 1
2/16	Units of measurements; units of quantities.	Chapter 2
3/16	Units of measurements; units of quantities.	Chapter 3
4/16	Computation of areas.	Chapter 4
5/16	Computation of areas.	Chapter 5
6/16	Computation of volumes.	Chapter 6
7/16	<b>Exam I</b> Take off procedure, take off sheet.	Chapter 7
8/16	Computation of volumes.	Chapter 8
9/16	Quantities of different finished works.	Chapter 9
10/16	Quantities of different finished works.	Chapter 10
11/16	<b>Exam II</b>	Chapter 11
12/16	Quantities of materials.	Chapter 12
13/16	Bill of quantity; Bill of quantity and prices.	Chapter 13
14/16	Bill of quantity; Bill of quantity and prices.	Chapter 14
15/16	Bill of quantity; Bill of quantity and prices.	Chapter 15
16/16	<b>Final Exam</b>	

## Presentation methods and techniques

Methods of teaching varied according to the type of text, student and situation. The following techniques are usually used:

- 1- Lecturing with active participations.  
Involve the civil engineering students in asking some questions related to the target topic of the course.
- 2- Problem solving.  
Encourage the students to solve the given assignments and submit them at the definite time,
- 3- Cooperative learning.  
By enhancing the students studying in groups .
- 4- Discussion.  
To discuss the results and the answers of the target problems.
- 5- Learning by activities.  
To encourage the students to some group activity.
- 6- Connecting students with different sources of information.

### Sources of information and Instructional Aids

- Computer software ... power point
- Using white board.
- Library sources

### Assessment Strategy and its tools

The assigned syllabus is assessed and evaluated  
Through: feedback and the skills that are acquired by the students  
The tools:

- 1- Formal (stage) evaluation
  - a) Class Participation 10%
  - b) Ist Exam 20%
  - c) 2nd Exam 20%
  - d) Group activity and Quizzes 10%

### Tool & Evaluation

Tests and quizzes are permanent tools & assessment, in addition to the activity file which contains curricular and the co-curricular activities, research, report papers and the active participation of the student in the lecture.

The following table clarifies the organization of the assessment schedule:

Test	Date	Grade
Midterm		20
	Students should be notified about their marks	40
	Activities & Participation	
Final Exam		40

## Activities and Instructional Assignment

- 1- Practical assignments to achieve the syllabus objectives.
- 2- Group Activity.

### **Regulations to maintain the teaching-Learning Process in the Lecture:**

- 1- Regular attendance.
- 2- Respect of commencement and ending of the lecture time.
- 3- Positive relationship between student and teacher.
- 4- Commitment to present assignments on time.
- 5- High commitment during the lecture to avoid any kind of disturbance and distortion.
- 6- High sense of trust and sincerity when referring to any piece of information and to mention the source.
- 7- The student who absents himself should submit an accepted excuse.
- 8- University relevant regulations should be applied in case the student's behavior is not accepted.
- 9- Allowed Absence percentages is (20%).

### **References:**

1. Jordan CODE; MPWH; Jordan - Jemie Hinze; Construction Contracts; 2nd edition; McGraw-Gill.
2. Sandra Lee, William Trench & Andrew Willis: Willis's Elements of Quantity Surveying (selected chapters); tenth edition; Blackwell.

3. Daud S. Khalaf; Contracts, specification and quantity surveying ( in Arabic),( selected chapters).

## Syllabus Classification

<b>Objectives</b>	<i>Learning outcome</i>	<i>Assessment tools</i>
1-	Students are able to apply knowledge of engineering	By using solved problems. Power point and weight board
2-	Students are able to design and conduct experiments	By using solved problems. Power point and weight board
3-	Students are able to analyze and interpret data	By using solved problems. Power point and weight board
4-	Students are able to work cooperatively and Students are able to apply knowledge of engineering	By using solved problems. Power point and weight board

