

## COURSE PLAN

### FIRST: BASIC INFORMATION

#### College

College : Faculty of Karak - Balqa Applied University  
 Department : Department Of Basic and Information Science

#### Course

Course Title : Quantity Surveying  
 Course Code : 020112223  
 Credit Hours : 3 (2 Theoretical, 1 Practical)  
 Prerequisite : 020112182

#### Instructor

Name : Aswan sabrie al dalaeen  
 Office No. :2  
 Tel (Ext) :  
 E-mail :A.dalaeen@bau.edu.jo  
 Office Hours :  
 Class Times


#### Text Book

- Title:alqudah,F.,(2003), Quantity surveying , the modern world of books

#### References

- Construction Quantity Surveying: A Practical Guide for the Contractor's QS 1st Edition
- Construction Quantity Surveying by Donald Towey
- The quantity surveyor's handbook by B. K Boddington; New Zealand Institute of Quantity Surveyors.
- Willis's Elements of Quantity Surveying by Sandra Lee
- Quantity Surveying Books | Book Depository Google searching

### SECOND: PROFESSIONAL INFORMATION

#### COURSE DESCRIPTION

This course cover working knowledge of calculation of quantities materials used in construction such as reinforcing steel , cement, aggregates, bricks, stones, etc.

#### COURSE OBJECTIVES



The objective of this course is to enable the student to do the following:

- Recognize the working knowledge of regular shapes and irregular shapes
- Recognize the concept of finishing and its importance
- Calculate the quantities of finishing work
- Calculate areas and volumes of concrete elements
- Calculate the quantities for steel, cement, aggregates, bricks, etc.

**COURSE LEARNING OUTCOMES**

On successful completion of this course, students are expected to be able to:

- CLO1. Explain the basics of an executed contract
- CLO2. Calculate the areas of different shapes
- CLO3. Calculate the volumes of different shapes
- CLO4. Calculate the quantities of building materials
- CLO5. Perform exercises in the implementation of projects

**COURSE SYLLABUS**

Week	topic	Topic details	Related LO and Reference (Chapter)	Proposed assignments
1	Introduction	<ul style="list-style-type: none"> <li>• Execution contracts:                             <ul style="list-style-type: none"> <li>a) The main parties to the project</li> <li>b) Execution methods</li> <li>c) Quantity documents</li> <li>d) The concept of quantities</li> </ul> </li> </ul>	CLO1	
2	Areas calculation	<ul style="list-style-type: none"> <li>• Calculating the areas of regular and irregular shapes</li> <li>• Calculating the areas of shapes outlined with curved lines</li> <li>• Using computer to apply quantities calculation</li> </ul>	CLO2	
3	Areas calculation	<ul style="list-style-type: none"> <li>• Calculating the areas of shapes outlined with straight lines</li> <li>• Using computer to apply quantities calculation</li> </ul>	CLO2	
4	Volumes calculation	<ul style="list-style-type: none"> <li>• Calculating the Volumes of regular and shapes</li> <li>• Calculating the Volumes from drawing scale</li> <li>• Using computer to apply quantities calculation</li> </ul>	CLO3	

Week	topic	Topic details	Related LO and Reference (Chapter)	Proposed assignments
5	Volumes calculation	<ul style="list-style-type: none"> <li>Calculating the Volumes from cross sections and longitudinal sections</li> <li>Calculating the Volumes from points level</li> <li>Calculating the Volumes from contour lines</li> <li>Using computer to apply quantities calculation</li> </ul>	CLO3	
6	Building quantities calculation	<ul style="list-style-type: none"> <li>Cut and fill works</li> <li>Principles of measurement</li> <li>Calculating the quantities for concrete works</li> <li>Using computer to apply quantities calculation</li> </ul>	CLO4	
7	Building quantities calculation	<ul style="list-style-type: none"> <li>Calculating the quantities of steel</li> <li>Calculating the quantities of stone</li> <li>Using computer to apply quantities calculation</li> </ul>	CLO4	
8	<b>Midterm Exam</b>			
9	Building quantities calculation	<ul style="list-style-type: none"> <li>Calculating the quantities for brick works</li> <li>Using computer to apply quantities calculation</li> </ul>	CLO4	
10	Building quantities calculation	<ul style="list-style-type: none"> <li>Calculating the quantities for plastering works</li> <li>Calculating the quantities for tiles works</li> <li>Using computer to apply quantities calculation</li> </ul>	CLO4	
11	Building quantities calculation	<ul style="list-style-type: none"> <li>Calculating of the quantities of windows, doors and other steel works</li> <li>Using computer to apply quantities calculation</li> </ul>	CLO4	
12	Building quantities calculation	<ul style="list-style-type: none"> <li>Calculating the quantities for wood works (windows, doors and others)</li> <li>Calculating the quantities for painting works</li> <li>Using computer to apply quantities calculation</li> </ul>	CLO4	

Week	topic	Topic details	Related LO and Reference (Chapter)	Proposed assignments
13	Building quantities calculation	<ul style="list-style-type: none"> <li>Calculating of the quantities of sewage system including cut and fill, concrete for manholes</li> <li>Calculating of the quantities of electrical and mechanical works</li> <li>Using computer to apply quantities calculation</li> </ul>	CLO4	
14	Building quantities calculation	<ul style="list-style-type: none"> <li>Calculating of the quantities of central heating system</li> <li>Using computer to apply quantities calculation</li> </ul>	CLO4	
15	Projects	<ul style="list-style-type: none"> <li>Discussing the students for the quantities surveying projects</li> <li>Carry out the project</li> <li>Using computer to apply quantities calculation</li> </ul>	CLO5	
16	<b>Final Exam</b>			

### COURSE LEARNING RESOURCES

Teaching will be achieved using available resources including lectures, data show, and materials uploaded on the e-learning system.

### ONLINE RESOURCES

<http://www.zuj.edu.jo/portal/hesham-s-ahmad/wp-content/uploads/sites/308/QS--Civil-Engineering.pdf>

### ASSESSMENT TOOLS

Assessment Tools	%
Projects and Quizzes	20%
MID Exam	30%
Final Exam	50%
Total Marks	100%

### THIRD: COURSE RULES

#### ATTENDANCE RULES

Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class. Absence of 10% will result in a first written warning. Absence of 15% of the course will result in a second warning. Absence of 20% or more will result in forfeiting



the course and the student will not be permitted to attend the final examination. Should a student encounter any special circumstances (i.e. medical or personal), he/she is encouraged to discuss this with the instructor and written proof will be required to delete any absences from his/her attendance records.

### GRADING SYSTEM

Example:

Average	Maximum	Minimum
Excellent	100%	90%
Very Good	89%	80%
Good	79%	70%
Satisfactory	69%	60%
Weak	59%	50%
Failed	49%	35%

### REMARKS

{ The instructor can add any comments and directives such as the attendance policy and topics related to ethics }

### COURSE COORDINATOR

Course Coordinator :

Department Head:

Signature:

Signature:

Date:

Date: