

## Program Engineering

<b>Specialization</b>	<b>Civil Engineering/Building &amp; Constructions</b>
<b>Course Number</b>	<b>20112231</b>
<b>Course Title</b>	<b>Quantity Surveying (2)</b>
<b>Credit Hours</b>	<b>3</b>
<b>Theoretical Hours</b>	<b>2</b>
<b>Practical Hours</b>	<b>3</b>

### **Brief Course Description:**

- ❖ **Quantities of: Brick works, building stones, tiles, painting, electrical works, mechanical works, sewage systems, Term Projects: quantities and cost estimation of building and roads.**

### **Course Objectives:**

**Upon the completion of the course, the student will be able to:**

- 1. Understand the concept of finishing and its importance.**
- 2. Calculate the quantities of finishing work.**
- 3. Calculate areas and volumes of concrete elements.**
- 4. Calculate the quantities of roads and pavement.**

**Detailed Course Description:**

Unit Number	Unit Name	Unit Content	Time Needed
1.	Introduction		
2.	Calculation of Areas of cut and fill		
3.	Calculation of Volumes of cut and fill		
4.	Calculation of construction work	Quantities of brick, tiles, painting, sewage, electrical, and mechanical work	
5.	Calculation of Ingredients of a concrete element		
6.	Calculations of Quantities of road work		
7.	Calculation of Quantities of Pavement Layers	Pavements elements	
8.	Bills of Quantities		

**Evaluation Strategies:**

Exams		Percentage	Date
Exams	First Exam	20%	--/--/---
	Second Exam	20%	--/--/---
	Final Exam	50%	--/--/---
Homework and Projects		10%	
Discussions and lecture Presentation			

### Teaching Methodology:

Lectures

### Textbooks & References:

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م. محمد علي الصمادي

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