



**DEPARTMENT OF ARCHITECTURE ENGINEERING  
ARCHITECTURE ENGINEERING PROGRAM, BSC.**

**Course Syllabus**

**1. Course number and name**

AR462 Contracts , Specifications and Quantity Surveying

**2. Credits and contact hours**

(3+0) 3 credit hours, 3 contact hours

**3. Course type**

Blended Learning course (2+1)

**4. Instructor's or course coordinator's name**

Arch. Mazen Al Nabulsi

**5. Textbook information**

- 1- Building Codes, Jordan Building Council
- 2- General Technical Specification for Buildings, volume1, Ministry of Public Works and Housing

**a. Other supplemental materials**

Instructor's notes

**6. Specific course information**

**a. Catalog description**

Contracts types and Hierarchy, FIDIC , Owner Professional and Contractor , Engineering institutions , Tender Documents , Specifications , Quantities , Cost estimations , the Integration between construction phases

**b. Prerequisites or co-requisites**

Prerequisite: AR 340 working drawings

**c. The course is:**

Required in the Architecture Engineering program .

**7. Specific goals for the course**

**a. Intended Learning Outcome:**

After completion of the course, students are expected to be able to:

**A. Knowledge and Understanding (student should):**



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A1 Knowledge of professional relations between individuals and institutions related to the production of architectural projects and their definition in the institutional hierarchy

A2 Knowledge of the methods of bidding in tenders, bidding evaluation, team selection, selecting the method of submitting and delivering projects.

### **B. The following student outcomes are addressed by the course Cognitive and Intellectual Skills:**

B1. Ability to develop reports of quantity survey and tables of specs according to specific templates

### **C. Subject-specific skills:**

C1. Knowledge in the basics of construction cost, project cost and financing, financial abilities, occupancy cost, construction cost, considering current cost

### **8. Intended Learning Outcomes and their Alignment with Program learning Outcomes (PLO's) Methods of Delivery, and Assessment Methods:**

Learning Outcomes	Program	Method of Delivery	Assessment Method
A.1. Knowledge of professional relations between individuals and institutions related to the production of architectural projects and their definition in the institutional hierarchy	ARC-3.3.1.4.	lectures	Midterm and Final exams
A.2. Knowledge of the methods of bidding in tenders, bidding evaluation, team selection, selecting the method of submitting and delivering projects.	ARC-3.3.1.5.	lectures	Midterm and Final exams
B.1. Ability to develop reports of quantity survey and tables of specs according to specific templates	ARC-3.3.1.6.	Lectures	Reports , Midterm and Final exams
C.1. Knowledge in the basics of construction cost, project cost and financing, financial abilities,	ARC-3.3.1.7.	Major Assignment	Discussion / site visit



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occupancy cost, construction cost, considering current cost			
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**9. Weekly Teaching Plan**

<b>Week No.</b>	<b>Lecture</b>	<b>Topic</b>	<b>Method of Delivery</b>
1	Lec_1	Introduction to course , goals and methodology	Synchronous active learning
	Lec_2	Revision of definitions of Building Industry contracts , specs and quantities	Lecture
	Lec_3	Recorded lecture with highlights on major concerns	Lecture
2	Lec_4	Contracts , importance , FIDIC reference , applications	Synchronous active learning
	Lec_5	Contracts , institutional framework , related classifications	Lecture
	Lec_6	Video on the world of building industry	Lecture
3	Lec_7	Engineering services contact , types and elements	Synchronous active learning
	Lec_8	FIDIC contract, detailed elements , process	Lecture
	Lec_9	Guest lecture on contracts	Lecture
4	Lec_10	FIDIC contract, detailed elements , process	Asynchronous active learning
	Lec_11	Tender documents in consultation and contracting	Lecture
	Lec_12	Guest lecture on Tender documents	Lecture
5	Lec_13	Tender documents examples	Synchronous active learning
	Lec_14	General and closed conditions of FIDIC contracts	Lecture
	Lec_15	Discussion on FIDIC	Lecture
6	Lec_16	Specifications, release of assignment 1	Asynchronous active learning
	Lec_17	Types of specs , writing skills , references	Lecture
	Lec_18	Video on specs ( internationally )	Lecture



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7	Lec_19	Assignment 1 ( selection of projects for quantity surveying)	Asynchronous active learning
	Lec_20	Specification references , construction phases	Lecture
	Lec_21	Record lecture on the relation between contracts , FIDIC and specs	Lecture
8	Lec_22	Specification references , construction phases, preliminary works , excavations	Synchronous active learning
	Lec_23	Assignment revision on selected projects by students	Lecture
	Lec_24	Record lecture on the relation between contracts , FIDIC and Specs	Lecture
9	Lec_25	Eid Holiday	
	Lec_26		
	Lec_27		
10	Lec_28	Assignment 1 submission 10%	Asynchronous active learning
	Lec_29	Specifications, Skeleton works, foundations, flooring, roof. Columns and walls	Lecture
	Lec_30	Record lecture on Skeleton works , stone construction	Lecture
11	Lec_31	Release of assignment 2 , finishing on same selected project of assignment one	Synchronous active learning
	Lec_32	Discussion of assignment one . positives and negatives	Lecture
	Lec_33	Record lecture on Skeleton works , stone construction	Lecture
12	Lec_34	Specifications, Skeleton works , foundations, flooring . roof. Columns and walls	Asynchronous active learning
	Lec_35	Finishes specs . partitions , sanitary and electrical prelim stage	Lecture
	Lec_36	Record lecture on Skeleton works , stone construction	Lecture
13	Lec_37	Finishes specs. doors and windows, plastering	Synchronous active learning
	Lec_38	Finishes specs. doors and windows, plastering , paintings	Lecture
	Lec_39	Site visit	
14	Lec_40	Submission of assignment 2 10%	Synchronous active learning
	Lec_41	External works	Lecture
	Lec_42	Record lecture on finishes	Lecture



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15	Lec_43	External works	Asynchronous active learning
	Lec_44	Session on combination between previous lessons	Lecture
	Lec_45	Record lecture on finishes	Lecture

**1. Grade Distribution:**

Assessment	Grade	Week No.
- Midterm Exam	30%	9 <sup>th</sup> Week
-Assignment (Report 1)	10%	10 <sup>th</sup>
-Assignment (Report 2)	10%	14 <sup>th</sup>
<b>Total semester works</b>	50%	
-Assignment (Report 3 (final ))	10%	
- Final Examination	40%	16 <sup>th</sup> Week

Note: Make-up exams will be offered for valid reasons. It may be different from regular exams in content and format.