

Course Specification

Course Code: ARCH 406	Course Title: Contracts, Quantities and Specifications
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(1) Basic information

Program Title	Architecture & Urban Planning			
Department offering the program	Architecture & Urban Planning Department			
Department offering the course	Architecture & Urban Planning Department			
Course Code	ARCH 406			
Year/level	Second term 2023/2024 / 4 th year			
Specialization	major			
Teaching Hours	Total	Practical	Tutorial	Lectures
	3	-	-	3
Date of approval of Bylaw	2008			

(2).Course Aims

No.	Aims
	<p>The course aims to:</p> <ol style="list-style-type: none"> 1- Presenting and discussing issues of defining the system (and management) of tenders or procurement [Bids or Procurements System (& Management)] as one of the most important contracting controls. 2- Studying and evaluating bid or contract documents for the construction industry, which include contracts (types and fields), drawings, and bills of quantities, technical specifications and agendas. 3- studying the general technical specifications of the construction industry (for buildings) and its items, with a focus on the standard technical specifications of the Egyptian code, 4- Studying the different methods for calculating quantities, designing tables for bills of quantities, and calculating the estimated cost for business items. <p style="color: red;">(AIM 2&5)</p>

(3). Learning Outcomes of Course (LOs)

B2.1	Produce designs that meet building users' requirements through understanding the relationship between people and buildings, and between buildings and their environment.
B4.1	Transform design concepts into buildings and integrate plans into overall planning within the constraints of: project financing, project management, cost control and methods of project delivery.
B5.1	Prepare design project briefs and documents, and understand the context of the architect in the construction industry, including the architect's role in the processes of bidding.

(4). Course Contents

Week No.	Topics	Lecture	Tutorial	Practical	Total
1	Introduction	2			2
2	Bidding documents lecture	2			2
3	Technical Specifications lecture	2			2
4	quantities of implementation items	2			2
5	quantities of implementation items	2			2
6	quantities of implementation items	2			2
7	Feasibility study lecture	2			2
8	Midterm Exam				
9	Quantity pricing lecture	2			2
10	Quantity pricing lecture	2			2
11	Contract types lecture	2			2
12	project Timetable lecture	2			2

13	Submitting the applied research	2			2
14	Submitting study project	2			2
15	Practical exam				
16	Final Exam				
	Total	26			26

(5). Teaching and Learning methods

No.	Teaching Method
1	Demonstration method
2	Discussion
3	Educational Presentation
4	Storytelling
5	Problem Solving

(6). Teaching and Learning methods of Disabled Students

No.	Teaching Method	Reason
1	Peer Learning	
2	Enhancement Lectures	

(7). Matrix of course Los with teaching and learning methods

No.	Teaching and Learning method			
	lectures	Educational presentation	Interactive learning	Self-learning
B2.1	✓	✓	✓	✓
B4.1	✓		✓	✓
B5.1	✓	✓	✓	✓

(8). Students Assessment

(8.1) Students Assessment Method

No	Assessment Method	Los
1	Fast Project	B2.1, B4.1
2	Mini project	B2.1, B4.1
3	Mid-term Exam	B2.1, B4.1

4	Individual Projects	B2.1, B4.1, B5.1
5	Final Exam	B2.1, B4.1, B5.1

(8.2) Assessment Schedule

No.	Assessment Method	Weeks
1	Mini project//Homework	Weekly
2	Fast Project	N/A
3	Mid-term Exam	8
4	Final Discussion	15
5	Final Exam	16

(8.3) Weighting of Assessments

No	Assessment Method	Weights %	Weights
1	Fast Project	5%	5
	Mini Project/Homework	10%	10
	Mid-term Exam	15%	15
	Individual Projects	25 %	15
2	Practical	0	0
3	Final Exam	50%	50
Total		100%	100

(9). List of References

1	الكميات والمواصفات الفنية ، ماجد خلوصى
2	(الكميات والمواصفات ، موسوعة البقرى) إنشاء مباني إدارة المشروعات ، د إبراهيم عبد الرشيد

(10). Facilities required for teaching and learning

1	Studio Hall
2	Data show
3	Google Classroom
4	White Board
5	Library
6	Internet

(11). Matrix of Aims and LOs of the Course

No.	Topics	Aims	LOs
1	Introduction	-	-

2	Bidding documents lecture	1,2	B2.1, B4.1		
3	Technical Specifications lecture				
4	quantities of implementation items				
5	quantities of implementation items				
6	quantities of implementation items	3,4,5	B2.1, B4.1, B5.1		
7	Midterm Exam			1:2	B2.1, B4.1
8	Feasibility study lecture				
9	Quantity pricing lecture				
10	Quantity pricing lecture				
11	Contract types lecture				
12	project Timetable lecture				
13	Submitting the applied research				
14	Submitting study project	1:5	B2.1, B4.1, B5.1		
15	Final Exam				

(12). Matrix of Competencies/ Program LOs with Course LOs

No.	Competences/ Program LOs	No.	Course LOs
B2	Produce designs that meet building users' requirements through understanding the relationship between people and buildings, and between buildings and their environment; and the need to relate buildings and the spaces between them to human needs and scale.	B2.1	Produce designs that meet building users' requirements through understanding the relationship between people and buildings, and between buildings and their environment.
B4	Transform design concepts into buildings and integrate plans into overall planning within the constraints of: project financing, project management, cost control and methods of project delivery; while having adequate knowledge of industries, organizations, regulations and procedures involved.	B4.1	Transform design concepts into buildings and integrate plans into overall planning within the constraints of: project financing, project management, cost control and methods of project delivery.



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B5	Prepare design project briefs and documents, and understand the context of the architect in the construction industry, including the architect's role in the processes of bidding, procurement of architectural services and building production.	B5.1	Prepare design project briefs and documents, and understand the context of the architect in the construction industry, including the architect's role in the processes of bidding.
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Title	Name	Signature
Course Coordinator	Assistant prof. Nader ibrahem	
Head of Department	Associ. Prof./ Faysal Abou ElAzm	
Date of Approval	2023/ 2024	