FUTURE UNIVERSITY IN EGYPT جامعة المستقبل

Faculty of Engineering & Technology

Execution Designs 3

Information :

Course Code :	ARC 571	**Level :**	Undergraduate	**Course Hours :**	4.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	Nader Ibrahem Ismael Ibrahem	12
Lecturer	Nader Ibrahem Ismael Ibrahem	12
Assistant Lecturer	Nouran Ashraf Ali Abdeltawab	6
Assistant Lecturer	BASMA MOHAMED NAGIB IBRAHIM KHALIFA	3
Assistant Lecturer	Nouran Ashraf Ali Abdeltawab	6
Teaching Assistant	Salma Mohamed Eltohamy Elgendy	

Area Of Study :

ÅPrepare the students to demonstrate an entire set of integrated execution documents for projects presenting a complete architectural project with emphasis on structural, construction and technical working details.
ÅDevelop the students' knowledge within the areas of preparation of integrated execution documents for projects, Quantity surveying, Analysis of bids, Cost analysis, Shop and as built drawings.
ÅTrain the students to produce advanced Quantity surveying documents for projects.

Description :

The main concern of this course will be the integration of complex multi-disciplinary issues. In addition, students will practice how to survey different quantities of construction/building items. The practice will be on a moderate scale complex projects. In addition these topics will be discussed; Analysis of bids, Cost analysis, Shop and as built drawings.

Course outcomes :

a.Knowledge and Understanding: :	
1 -	a1. Identify the measuring units of each item of Quantity surveying.
2 -	a2. Identify the process of making; analysis of bids, and cost analysis.
3 -	a3. Identify the importance of shop drawings & as built drawings.
b.Intellectual Skills: :	
1 -	b1. Formulate problem solutions related to integrated execution & Quantity surveying documents.
2 -	b2. Choose optimum solutions for preparation of Quantity surveying of a pre-designed project.
3 -	b3. Choose optimum software of Quantity surveying according to different cases.

c.Professional and Practical Skills: :	
1 -	c1. Apply manual & digital techniques to conduct Quantity surveying documents for a project.
2 -	c2. Apply new techniques used in Cost analysis.
d.General and Transferable Skills: :	
1 -	d1. Work in team work research.
2 -	d2. Communicate effectively with others.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to Preparation of integrated execution documents for projects	6	2	4
Preparation of working drawings of a pre-designed project	6	2	4
integration of complex multi-disciplinary issues	6	2	4
Introduction to Quantity surveying	6	2	4
Survey different quantities of construction/building items ï Manual Method	4	8	12
Midterm Exam , Revision	6	2	4
Survey different quantities of construction/building items ï Using AutoCad Software & Excel Sheets Software & Excel Sheets	6	2	4
Introduction to Quantity surveying in Revit software Introduction to Quantity surveying in Revit software	6	2	4
Analysis of bids & Cost analysis	6	2	4
Shop drawings & As built drawings	6	2	4
Practical Quantity surveying	12	4	8
Final Quantity surveying project	12	4	8

Teaching And Learning Methodologies :

Lectures.
Assignments and lap work

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments and lap work	40.00		
Final examination.	40.00		
Mid-term examination(s).	10.00		
project.	10.00		

Course Notes :

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Recommended books :

ÅSlitt; Fred. Working Drawing manual, 1998, McGraw Hill
ÅAllen; Edward, Iano; Joseph. Fundamentals of Building Construction: Materials and Methods, John Wiley & Sons, 2011

Periodicals :

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Web Sites :

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