

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 Ibrahim Ismael Ibrahim	15
Assistant Lecturer	Nouran Ashraf Ali Abdeltawab	6
Teaching Assistant	Salma Mohamed Eltohamy Elgendy	

Area Of Study :

1. Demonstrate an entire set of integrated execution documents for projects presenting a complete architectural project with emphasis on structural, construction and technical working details.
2. Address areas like General conditions and specifications, Quantity surveying, Analysis of bids, Cost analysis, Shop and as built drawings.
3. Produce advanced execution documents for projects for a chosen architectural project.

Description :

Preparation of integrated execution documents for projects, Preparation of working drawings of a pre-designed project, Including wide spans, General conditions and specifications, Quantity surveying, Analysis of bids, Cost analysis, Shop and as built drawings.

Course outcomes :

a. Knowledge and Understanding: :

1 -	Understand how to prepare integrated execution documents for a project.
2 -	Recognize the role of preparing working drawings of a pre-designed project.
3 -	Understand a full and comprehensive knowledge of General conditions, Technical specifications, and Quantity surveying.
4 -	Understand how to make; Analysis of bids, and Cost analysis.
5 -	Understand characteristics of Shop drawings, and as built drawings.

b. Intellectual Skills: :

1 -	Analyze solution problems related to integrated execution documents.
2 -	Drive different solutions for preparation of working drawings of a pre-designed project.

c. Professional and Practical Skills: :

1 -	Apply high techniques in the production of integrated execution documents for a project.
2 -	Employ new and various Quantity surveying techniques.
3 -	Utilize new techniques used in Cost analysis.

d.General and Transferable Skills: :

1 -	Team work in research.
2 -	Share ideas and communicating with others.
3 -	Propose execution documents using different techniques.

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
General conditions.	6	2	4
Technical specifications.	6	2	4
Quantity surveying.	12	4	8
Analysis of bids.	6	2	4
Cost analysis.	6	2	4
Shop drawings.	6	2	4
As built drawings.	6	2	4
Practical Quantity surveying.	12	4	8
Final Quantity surveying project.	12	4	8

Teaching And Learning Methodologies :

Lectures.
Tutorials.
Research assignments.
Information collection from different sources.

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments.	20.00		
Attendance & Participation.	10.00		
Final examination.	20.00		
Final Project.	20.00		
Mid-term examination(s).	30.00		

Course Notes :

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Recommended books :

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"Abd El Gawad, Tawfic, Building Material and Building Construction.
"Mitchell, "Building Construction", B.T.Batsford Ltd London
"Encyclopedia of Building Technology (Farouk Haider)
"Encyclopedia of Building construction (Abd El Latif Elbakarie)
"W.B. McKay, "Building Construction", Longmans.
"All volumes of: "Architecture working details"

Periodicals :

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Web Sites :

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