

Faculty of Engineering & Technology

Execution Designs 2

Information:

Course Code: ARC 472 Level Undergraduate **Course Hours:** 4.00- Hours

Department: Department of Architectural Engineering

Instructor Information:

Title	Name	Office hours
Professor	Gamal Mohamed Attia Elkholy	5

Area Of Study:

- 1. Demonstrate an entire set of working drawings presenting a complete set of documents for an architectural project with weight on structural, construction and technical working details.
- 2. Address areas like architectural details, materials and various finishing
- 3. Produce advanced technical mechanical and electrical documents for a chosen architectural project.
- 4. Address issues like landscape, architectural details, material knowledge and finishing.

Description:

Course outcomes:

Preparation of complete working drawings and design for a given (preliminary design) project, including plans, sections, elevations, details, openings, fenestrations, partitions and fixed furniture.

a.Knowledge and Understanding: :			
1 -	Understand the site analysis of an architectural project.		
2 -	Recognize the role of different structures systems.		
3 -	Understand a full and comprehensive knowledge of architectural drawings with regards to structure, electrical and mechanical work.		
4 -	Recognize the characteristics of finishing materials.		
5 -	Understand characteristics of finishing materials and structural elements in relation to the function of buildings.		
h Intellect	ual Skiller ·		

Intellectual Skills: :

- Analyze solution problems related to building constructions. 1 -
- 2 -Drive different solutions in solving architectural problems related to building constructions with emphasis on working details.
- Identify alternative architectural and structural systems with reference to building constructions. 3 -

c.Professional and Practical Skills: :

- 1 -Apply high techniques in the production of working drawings.
- 2 -Employ new and various finishing techniques.
- 3 -Utilize new techniques used in materials and working details.



d.General and Transferable Skills: :		
1 -	Team work in research.	
2 -	Share ideas and communicating with others.	
3 -	Propose working drawings using different techniques.	

Course Topic And Contents :			
Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to site analysis.	6	2	4
Preliminary stage: site drawings.	6	2	4
Preliminary stage: plans.	12	4	8
Preliminary stage: sections.	6	2	4
Research: finishing materials.	6	2	4
Preliminary stage: elevations.	6	2	4
Research: working details.	6	2	4
Preliminary stage: details.	6	2	4
Sanitary drawings.	6	2	4
HVAC drawings.	12	4	8
Full drawings of preliminary stage.	12	4	8

Teaching And Learning Methodologies:

Lectures.

Tutorials.

Information collection from different sources.

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

Course Notes :	
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Recommended books:



/Ábd El Gawad, Tawfic, Building Material and Building Construction.

/ÁMitchell年, "Building Construction", B.T.Batsford ltd London

Æncyclopedia of Building Technology (Farouk Haider)

"Æncyclopedia of Building construction (Abd El Latif Elbakarie)

"ÁW.B. McKay, "Building Construction", Longmans.

"Áll volumes of: "Architecture working details"

Periodicals:

Architecture: Form . ASpace and Order. By Francis D.K. Ching

Web Sites:

www.ASCAAD.com