

Faculty of Engineering & Technology

Architectural Design 4

Information :

Course Code : ARC 312	Level	:	Undergraduate	Course Hours :	4.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Professor	Gamal Mohamed Attia Elkholy	3
Professor	Gamal Mohamed Attia Elkholy	3
Lecturer	Rana Mostafa Ahmed Hammam	
Assistant Lecturer	Nouran Ashraf Ali Abdeltawab	1
Assistant Lecturer	BASMA MOHAMED NAGIB IBRAHIM KHALIFA	
Assistant Lecturer	Aya Osama Ahmed Kamal Aly	
Assistant Lecturer	Nouran Ashraf Ali Abdeltawab	1

Area Of Study :

Upon successful completion of this course, the students will be able to: "Develop design process awareness (including data gathering and analysis).

"Share ideas and work in a team or a group.

"Develop drawing and representation techniques.

["]Develop awareness of circulation systems, structures, lighting and form as applied to small scale buildings.

"Organize and articulate form and space that satisfy both functional and aesthetic requirements.

"Establish design and evaluation criteria.

"Test different design alternatives.

Description :

Developing design skills and ability to deal with complex form generation processes and design assignments, Covering various levels of form generation, including: context, site, solids and voids manipulation, spaces, structure, architectural expression and character, Developing analytical and synthesizing abilities and communication skills, Emphasizing the importance of the setting: Environmental and socio-cultural factors in the design process, introduction and experimentation with current trends and conceptions through studio and design assignment, Multielements and limited scale projects. Projects addressing different building types vary from one course to the other.

Course outcomes :

a.Knowledge and Understanding: :

1 - Understand concept of design Architectural Form and Context.



2 -	Understand concept of design Architectural Space and Context.			
3 -	Understand Environmental and Human aspects in Architecture.			
b.Intellectua	al Skills: :			
1 -	1 - Analyze the solution alternatives and choose the optimum one.			
c.Professio	c.Professional and Practical Skills: :			
1 -	Handle, process architectural laboratory devices (manual & Computer Labs).			
2 -	Conduct physical models of Architectural works.			
d.General and Transferable Skills: :				
1 -	Work in teams (team work).			
2 -	2 - Share ideas and communicate with others.			
3 -	- Deal with others according to the rules of the professional ethics.			

Course Topic And Contents :

Project data collection.826Site visits and data review.826Research presentations.826Design Sketch.8-8Design Development and follow up.24-24Design Sketch.8-8Design Development and follow up.16-8Design Development and follow up.16-16Final drawings.8-8Final drawings.16-16				
Site visits and data review.826Research presentations.826Design Sketch.8-8Design Development and follow up.24-24Design Sketch.8-8Design Development and follow up.16-16Final drawings.8-8Finishing and representation of project.16-16	Торіс	No. of hours	Lecture	Tutorial / Practical
Research presentations.826Design Sketch.8-8Design Development and follow up.24-24Design Sketch.8-8Design Development and follow up.16-16Final drawings.8-8Finishing and representation of project.16-16	Project data collection.	8	2	6
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Design Development and follow up.16-16Final drawings.8-8Finishing and representation of project.16-16	Design Development and follow up.	24	-	24
Final drawings.8-8Finishing and representation of project.16-16	Design Sketch.	8	-	8
Finishing and representation of project. 16 - 16	Design Development and follow up.	16	-	16
	Final drawings.	8	-	8
Final Project Submission. 8 - 8	Finishing and representation of project.	16	-	16
	Final Project Submission.	8	-	8

Teaching And Learning Methodologies :	
Lectures.	
Design studios.	
Research assignments.	
Information collection from different sources.	
Class discussions, sessions and design critiques.	

Course Assessment :			
Methods of assessment	Relative weight %	Week No	Assess What
Assignments (Projects & Researches)	50.00		
Attendance&Participation.	10.00		
Final Project.	20.00		
Final-term examination	20.00		



Course Notes :

No course notes are required.

Recommended books :

Ramsey, C.; Ray, J. & Hoke, Jr.Architectural Graphic Standards/Tenth Edition, AIA. John Wiley & Sons Inc., 2000, NJ. USA /AIA. John Wiley & Sons Inc.

Periodicals :

"Architecture "Architectural Record. "Architectural Review. "Architecture dopujourdhui.

Web Sites :

www.architecturalrecord.com www.greatbuildings.com