

**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	1
Associate Professor	Yasser Osman Moharam Mahgoub	1
Lecturer	Mohamed Eladly Adely Mohamed Eladly	
Assistant Lecturer	MOHAMED MAHMOUD SAYED MAHMOUD SALEH	1
Assistant Lecturer	Mie Ahmed Abd Al Aty Taha	
Assistant Lecturer	Nouran Ashraf Ali Abdeltawab	
Teaching Assistant	Ayman Shawki Hamed Ibrahim Shehab	1
Teaching Assistant	Shorouk Hossam Ahmed Hassan	1
Teaching Assistant	Shorouk Hossam Ahmed Hassan	1
Teaching Assistant	Omar Magdy Ahmed Ibrahim Elbahrawy	1
Teaching Assistant	Kamal Abdeleziz Ali Selim	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, Multi-elements 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.Intellectual Skills: :**

1 -	Analyze the solution alternatives and choose the optimum one.
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**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 -	Share ideas and communicate with others.
3 -	Deal with others according to the rules of the professional ethics.

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Project data collection.	8	2	6
Site visits and data review.	8	2	6
Research presentations.	8	2	6
Design Sketch.	8	-	8
Design Development and follow up.	24	-	24
Design Sketch.	8	-	8
Design Development and follow up.	16	-	16
Final drawings.	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 d'aujourd'hui.

**Web Sites :**

- [www.architecturalrecord.com](http://www.architecturalrecord.com)
- [www.greatbuildings.com](http://www.greatbuildings.com)