FUTURE UNIVERSITY IN EGYPT جامعة المستقبل

Faculty of Engineering & Technology

Architectural Design 7

Information :

Course Code :	ARC 511	**Level :**	Undergraduate	**Course Hours :**	4.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	BOTHAINA SAMIH ISMAIL ABOELKHIER BADR	3
Lecturer	BOTHAINA SAMIH ISMAIL ABOELKHIER BADR	3
Assistant Lecturer	Nouran Ashraf Ali Abdeltawab	
Assistant Lecturer	AYA USAMAH AHMED KAMAL ALI	
Assistant Lecturer	Nouran Ashraf Ali Abdeltawab	
Teaching Assistant	Omar Magdy Ahmed Ibrahim Elbahrawy	
Teaching Assistant	Heba Mohamed Abdullah Ahmed Ghuneim	

Area Of Study :

Upon successful completion of the course, the student should be able to:

1. Designing complexes within urban settings, with an emphasis on adaptive re-use, historic preservation, and urban design practices.
2. Developing a framework will be to assess and design for contemporary issues in architecture within critical settings of high land value (historical, traditional or waterfront contexts).
3. Develop design process awareness (including data gathering and analysis)
4. Share ideas and work in a team or a group
5. Organize and articulate form and space that satisfy both functional and aesthetic requirements

Description :

Analytical study of design alternatives for public and residential projects, to reach architectural and urban forms & configurations together with the appropriate design alternatives to satisfy: Design, functional, structural, visual, and environmental goals.

Course outcomes :

a.Knowledge and Understanding: :	
1 -	Demonstrate knowledge and understanding of scientific background (theories and history) of similar building types.
2 -	Define design problems and illustrate in drawings and sketches possible solutions .
3 -	Define the principles of building technologies, including the application of structures, construction methods, materials and environmental design in relation to human needs.
b.Intellectual Skills: :	
1 -	Analyze and solve design problems using models, drawings and diagrams.

2 -	Conceptualize, investigate and develop the design of three dimensional objects and spaces.
3 -	Create architectural designs that integrate social, aesthetic and technical requirements
4 -	Criticize and evaluate alternatives.
5 -	Decide and chose among different design alternatives.
c.Professional and Practical Skills: :	
1 -	Identify data and requirements for designing a certain building type.
2 -	Use appropriate graphic and modeling techniques for representation
3 -	Submit professional good looking complete drawings.
d.General and Transferable Skills: :	
1 -	Communicate effectively with other people using visual, graphic, written and verbal means.
2 -	Work in a self-directed manner.
3 -	Work coherently and successfully as a part of a team in projects, assignments.
4 -	Manage time and meet deadlines.
5 -	Analyze problems and use innovative thinking in their solution.
6 -	Use the Internet in searching for information about specific building types.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Project data collection, site visits and data review	20	5	15
Research presentations	8	2	6
Five Design Sketches	20	_	20
Design Development and follow up	32	8	24
Final drawings, finishing and representation of project	40	_	40

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
Attendance	5.00		
Final Project	20.00		
Final-term examination	20.00		
Participation	5.00		
Sketches	50.00		

Course Notes :

No course notes are required

Recommended books :

ÅRamsey, C.; Ray, J. & Hoke, Jr.: Architectural Graphic Standards, Tenth Edition, AIA. John Wiley & Sons Inc., 2000, NJ. USA
ÅChiara, J. & Time Saver Standards for Architectural Design
ÅArchitectural Magazines and Projects
ÅArchitecture: Form ï Space and Order. By Francis D.K. Ching

Periodicals :

ÅArchitecture
ÅArchitectural Record
ÅArchitectural Review
ÅArchitecture dâaujourdhui

Web Sites :

Åwww.architecturalrecord.com
Åwww.greatbuildings.com