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	2
Assistant Lecturer	ETHAR ESSAM MAHMOUD ALY ELSHINAWY	6
Assistant Lecturer	MOHAMED MAHMOUD SAYED MAHMOUD SALEH	

Area Of Study :

The main aims of this course are to:
Enhance student's awareness of creative design process within a thematic context that is rich of identity, heritage, social characteristics and traditions.
Train student to apply architectural strategies for integrating new designs into existing contexts.

Description :

Visual relations of the group of buildings and their conformity with the general layout and context. The design should comprise major elements having wide structural spans. Provision for natural lighting and ventilation. Application of new technologies to enhance design concepts.

Course outcomes :

a.Knowledge and Understanding: :	
1 -	Define the design process as a particular set of sequential operations.
2 -	Define what is meant by design problem.
3 -	Distinguish different architectural rendering techniques.
b.Intellectual Skills: :	
1 -	Use analytical thinking methods to define design problems.
2 -	Use creative thinking methods to propose different design alternatives.
3 -	Evaluate design alternatives.
c.Professional and Practical Skills: :	
1 -	Design architectural projects in light of spatial and aesthetic requirements.
2 -	Apply creative concepts and methods to develop his/her design.
3 -	Create 3D sketches to express and develop his/her design.
4 -	Use proper presentation techniques to represent his/her final design proposal.

d.General and Transferable Skills: :	
1 -	Express his/her ideas by visual, graphic, written and verbal means
2 -	Discuss and defend his/her ideas.
3 -	Manage time and meet deadlines.
4 -	Search for relevant information.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Projects data collection, site visits and data review	24	6	18
Data Analysis	16	4	12
Two pre-presentations of research work	32	8	24
Development and follow up	8	2	6
Development and follow up	8	2	6
Development and follow up	8	2	6
Final presentation, finishing and representation of researches	8	2	6
Final presentation, finishing and representation of researches	8	2	6
Final presentation, finishing and representation of researches	8	2	6

Teaching And Learning Methodologies :

Lecture
One to One Discussion
Small Groups Discussion
Public Group Discussion
Physical Maquette
Search for Data (Self-study)
Research Presentation
Sketch Designs

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Final exam	40.00		
Homework assignments	20.00		
Mid-term submission(s)	20.00		
Participation	10.00		
Sketch design	10.00		

Course Notes :

No course notes are required

Recommended books :

- Form ï Space and Order. By Francis D.K. Ching
- Architectural Graphic Standards .By Ramsey, C.; Ray, J. & Hoke, Jr.
- Neufert, E.: ArchitectsôData; The Handbook of Building Types . By The Alden Group Ltd.
- Time Saver Standards for Architectural Design . By Chiara, J.

Periodicals :

ÅArchitecture
ÅArchitectural Record
ÅArchitectural Review
ÅArchitecture dâaujourdhui

Web Sites :

Åwww.architecturalrecord.com
Åwww.greatbuildings.com