Faculty of Engineering & Technology

Graduation Project

Information :

Course Code :	ARC 502	**Level :**	Undergraduate	**Course Hours :**	5.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Professor	OSAMA Mohammad Elrawi Osama Elrawi	2
Associate Professor	Sahar Morsy Mohamed Mohamed Ali	1
Lecturer	Mohamed Eladly Adely Mohamed Eladly	4
Lecturer	Mohamed Eladly Adely Mohamed Eladly	4
Lecturer	DINA MAAROUF AHMED MOHAMED DIEFALLAH	
Assistant Lecturer	MOHAMED MAHMOUD SAYED MAHMOUD SALEH	3
Assistant Lecturer	RANDA MEDHAT HUSSIEN KHALIL MOHAMED	4
Assistant Lecturer	AMR MAMDOUH MAHMOUD MOHAMED ALI	6
Assistant Lecturer	AMR MAMDOUH MAHMOUD MOHAMED ALI	6
Assistant Lecturer	RANDA MEDHAT HUSSIEN KHALIL MOHAMED	4

Area Of Study :

-Developing students preliminary design ideas into a full architectural project including architectural drawings, audio-visual presentations and physical or computer generated models.
-To train students to deal with complex architectural design problems from a practical and comprehensive point of view, starting from problem definition, context analysis, function and utility requirements study, and structural and aesthetic considerations.
-Students should progress through different design phases ï whose delivery milestones are planned and scheduled by themselves.
-The Graduation project is a comprehensive experience similar to professional practice after graduation.

Description :

The final design studio deals with a complex design problem to reflect the student's understanding and skills in handling and integrating all knowledge gained through the years of study. The goal is to achieve project's objectives on both architectural and urban levels as well as details.

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 -	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
Introduction to student projects	11	-	11
Time Table Submission	11	-	11
Finalizing time table and submission + start Project concept	11	-	11
Follow up concept and program + submission	11	-	11
Follow up zoning and layout + submission	11	-	11
Follow up 3d models, perspective and sections + submission	11	-	11
Major Submission (Layoutï Plansï Sectionsï elevationsï 3d)	11	-	11
Follow Up + Development	44	-	44
Major Submission (Semi-final)	11	-	11
Follow up	11	-	11
Follow Up + Development	11	-	11
Final follow up and start Drafting	11	-	11
Final Submission of Graduation Project	11	-	11

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
External Jurors	30.00		_

Four Submissions	40.00		_
Internal Jurors	20.00		_
Participation & Attendance	10.00		_

Course Notes :

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Recommended books :

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