



1. Basic Information

Program Tile	Architectural Engineering
Department offering the Program	Architectural Engineering
Department Responsible for the Course	Architectural Engineering
Course Title	Executive Design 1*
Course Code	ARE7322
Year/ Level	Third Year – Second Semester
Specialization	Major
Authorization date of course specification	2005

Toophing Hours	Lectures	Tutorial	Practical
Teaching Hours	1	5	0

2. Course Attributes:

No.	Attribute		
05	Use the techniques, skills, and appropriate engineering tools, necessary for		
	engineering practice and project management.		
12	Design robust architectural projects with creativity and technical mastery.		
13	Demonstrate investigative skills, attention to details, and		
	visualize/conceptualize skills.		
17	Recognize the new role of architectural engineer as the leader of design		
	projects— who has the ability to understand, assemble, and coordinate all of		
	the disciplines— to create a sustainable environment.		

3. Intended Learning Outcomes (ILOs):

a. Knowledge and Understanding:

No.	Knowledge and Understanding	
A ₀₈	Principles of architectural design, and the preparation and presentations of design	
	projects in a variety of contexts, scales, types and degree of complexity.	
A ₁₄	Principles of building technologies, structure & construction methods, technical	
	installations, properties of materials, and the way they may influence design	
	decisions.	
A ₁₅	Fundamentals of building acquisition, operational costs, and of preparing	
	construction documents and specifications of materials, components, and	
	systems appropriate to the building.	

b. Intellectual Skills

No.	Intellectual Skills		
B ₀₃	Think in a creative and innovative way in problem solving and design.		
B ₁₀	Incorporate economic, societal, environmental dimensions and risk management in design		





B ₁₃	Integrate different forms of knowledge, ideas from other disciplines, and manage information retrieval to create new solutions	
B ₁₇	Integrate relationship of structure, building materials, and construction elements into design process.	

c. Professional Skills

No.	Professional Skills		
C ₀₂	Professionally merge the engineering knowledge, understanding, and		
	feedback to improve design, products and/or services.		
C ₁₄	Produce professional workshop and technical drawings using traditional		
	drawing and computer-aided drawings' techniques.		
C ₁₅	Use appropriate construction techniques and materials to specify and		
	implement different designs.		
C ₁₆	Participate professionally in managing construction processes.		
C ₁₈	Display imagination and creativity.		

D. General Skills

No.	General Skills
D ₀₁	Collaborate effectively within multidisciplinary team.
D ₀₂	Work in stressful environment and within constraints.
D ₀₃	Communicate effectively.
D ₀₄	Demonstrate efficient IT capabilities.
D ₀₆	Manage tasks and resources efficiently.
D ₀₈	Acquire entrepreneurial skills.

4. Course Contents:

No.	Topics
1	Introduction
2	Design Modification
3	Working Design (Plans)
4	Working Design (Elevations)
5	Working Design (Sections)
6	Working Details (Stairs)
7	Working Design (Layout)
8	Working Design (Plumbing& Electric)

5. Teaching and Learning Methods:

5.1 Normal Students:

No.	Teaching Method	Choice
1	Lectures	





2	Discussion Sessions	
3	Information Collection from Different Sources	
4	Practical	×
5	Research Assignment	
6	Field Visits	
7	Case Studies	
8	Smart Sessions	

5.2 Disable Students:

No.	Teaching Method	Reason
1	Presentation of the course in digital material.	Better access any time.
2	Web communication with students	Better communication with
		certain cases.
3	Asking small groups to do assignments; each	Knowledge and skills
	composed of low, medium, and high performance	transfer among different
	students.	levels of students.
4	Asking disabled students to do PowerPoint/Poster	Encouraging disabled
	presentations.	students' engagement and
		interaction.

5.3 Excellent Students:

No.	Teaching Method	Reason	
1	Developing course materials gradually to allow	Excellent students rely on	
	excellent students to receive teaching that meets their	excellent teaching	
	needs		
2	Encouraging students to participate in competitions	Increasing excellent	
	with rewarded bonus marks.	students' competitiveness	

6. Student Assessment:

6.1 Student Assessment Methods:

No.	Assessment Method	Choice	ILOs
1	Mid Term Examination		A_{08} , A_{14} , B_{03} , B_{10} , D_{01}
2	Oral Examination		D_{02}, D_{03}, D_{04}
3	Practical Examination	×	-
4	Semester work		$A_{14}, C_{02}, C_{14}, C_{15}, D_{06}$
5	Other types of assessment	×	-
6	Final Term Examination	\checkmark	$ \begin{array}{c} A_{14},A_{15},B_{13},B_{17},C_{16},C_{18},D_{06},\\ D_{08} \end{array} $

6.2 Assessment Schedule:





No.	Assessment Method	Weeks
1	Mid Term Examination	8
2	Oral Examination	12
3	Practical Examination	×
4	Semester work	Weekly
5	Other types of assessment	×
6	Final Term Examination	14

6.3 Weighting of Assessments:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Oral Examination	20%
3	Practical Examination	-
4	Semester work	60%
5	Other types of assessment	-
6	Final Term Examination	-
Total		100%

7. List of References

No.	Reference List			
1	Arabian Group for Develop, "Inter Build Specification Catalogue", Cairo, Egypt,			
	2003.			
2	Architect's Working Details, London, Vol. 1-8, 1955- 1961.			
3	مجدى موسى و نبيل سراج، "التصميمات التنفيذية في العمارة" دار الراتب للنشر، ١٩٩٥			

8. Facilities Required for Teaching and Learning:

No.	Facility	Choice
1	Lecture Classroom	
2	Lab Facilities	×
3	White Board	
4	Data Show System	
5	Visualizer	×
6	Smart Board	

No.	Facility	Choice
7	Wireless Board	×
8	Presenter	
9	Sound System	
10	Wire-Internet	×
11	Wireless Internet	
12		

9. Matrix of Knowledge and Skills of the Course:

No.	Торіс	Attributes	Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
1	Introduction	5	A ₀₈ , A ₁₄	B ₀₃	C_{02}, C_{14}	D ₀₁
2	Design Modification	5	A ₀₈ , A ₁₄	B ₁₀	C ₁₄ , C ₁₅	D ₀₂ , D ₀₃
3	Working Design (Plans)	5	A_{08}, A_{14}	B ₁₀	C ₁₅	D ₀₂ ,





						D ₀₃
4	Working Design	5	A ₁₅	B ₁₀	$C_{14}, C_{15},$	D ₀₄
	(Elevations)				$C_{16,}C_{18}$	
5	Working Design (Sections)	12	A ₁₅	B ₁₃	C_{14}, C_{15}	D ₀₄
6	Working Details (Stairs)	12	A ₁₅	B ₁₃	C ₁₆	D ₀₆
7	Working Design (Layout)	13	A ₁₅	B ₁₇	C ₁₆	D ₀₆
8	Working Design	17	A ₁₅	B ₁₇	C ₁₆ , C ₁₈	D ₀₆ ,
	(Plumbing& Electric)					D ₀₈

Course Coordinator:

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Date of Approval: