



1. Basic Information

Program Tile	Architectural Engineering
Department offering the Program	Architectural Engineering
Department Responsible for the Course	Architectural Engineering
Course Title	Architectural Design 4
Course Code	ARE7221
Year/ Level	Second Year – Second Semester
Specialization	Minor
Authorization date of course specification	2005

Teeshing Hours	Lectures	Tutorial	Practical
Teaching Hours	2	5	0

2. Course Attributes:

No.	Attribute	
12	Design robust architectural projects with creativity and technical mastery.	
13	Demonstrate investigative skills, attention to details, and	
	visualize/conceptualize skills.	
14	Adopt a holistic problem solving approach for complex, ambiguous, and	
	open-ended challenges and scenarios.	

3. Intended Learning Outcomes (ILOs):

a. Knowledge and Understanding:

No.	Knowledge and Understanding		
A ₁₃	Principles of architectural design, and the preparation and presentations of design projects in a variety of contexts, scales, types and degree of complexity.		
A ₂₃	Principles of sustainable design, climatic considerations, and energy consumption and efficiency in buildings and their impacts on the environment.		

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 ₁₆	Reconcile conflicting objectives and manage the broad constituency of interests to reach optimum solutions.		





B₁₇ Integrate community design parameters into design projects.

c. Professional Skills

No.	Professional Skills		
C ₀₂	Professionally merge the engineering knowledge, understanding, and		
C_{02} feedback to improve design, products and/or services.			
C ₁₇	Demonstrate professional competence in developing innovative and		
C_{17}	appropriate solutions of architectural and urban problems.		
C ₁₈	Display imagination and creativity.		
C	Respect all alternative solutions; changes in original plan of the project,		
C ₁₉	differences in style, culture, experience and treat others with respect.		

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 ₀₆	Manage tasks and resources efficiently.

4. Course Contents:

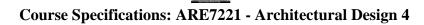
No.	Topics
1	مقدمة عامة
2	المشروع الثاني (مبنى رأسى متعدد الادوار : برج اداري – مجمع خدمي – مبنى حكومي)
3	المعايير التصميمية لعناصر الحركة الرأسية - النظريات -
4	بحث تطبيقي (أمثلة لمشروعات ، نظريات انشاء المباني العالية)
5	متابعة وتصحيح (اسكيز فكرة وموقع عام)
6	متابعة وتصحيح (مساقط أفقية)
7	متابعة وتصحيح(مساقط أفقية)
8	مناقشة عامة ومفتوحة للمرحلة السابقة (اسكيز ٢)
9	متابعة وتصحيح (واجهات وقطاعات)
10	متابعة وتصحيح (واجهات وقطاعات)
11	تبييض المشروع
12	المناقشة

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 composed of low, medium, and high performance students.	Knowledge and skills transfer among different levels of students.
4	Asking disabled students to do PowerPoint/Poster presentations.	Encouraging disabled students' engagement and interaction.

5.3 Excellent Students:

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

6. Student Assessment:

6.1 Student Assessment Methods:

No.	Assessment Method	Choice	ILOs
1	Mid Term Examination		$\begin{array}{c} A_{07}, \ A_{12}, \ A_{13}, \ B_{03}, \ B_{10}, \ B_{13}, \ C_{02}, \ C_{14}, \\ D_{01} \end{array}$
2	Oral Examination		$D_{01}, D_{02}, D_{03}, D_{06}$
3	Practical Examination	×	-
4	Semester work	\checkmark	$A_{13}, B_{16}, B_{17}, C_{17}, C_{18}, C_{19}, D_{06}$





5	Other types of assessment	×	-
6	Final Term Examination	\checkmark	$A_{13}, B_{19}, C_{19}, C_{17}, D_{04}, D_{06}$

6.2 Assessment Schedule:

No.	Assessment Method	Weeks
1	Mid Term Examination	08 th
2	Oral Examination	14 th
3	Practical Examination	×
4	Semester work	$2^{nd} - 7^{th}$; $09^{th} - 13^{th}$
5	Other types of assessment	×
6	Final Term Examination	15 th

6.3 Weighting of Assessments:

No.	Assessment Method	Weights
1	Mid Term Examination	10
2	Oral Examination	8.5
3	Practical Examination	-
4	Semester work	30
5	Other types of assessment	-
6	Final Term Examination	51.5%
Total		100%

7. List of References

No.	Reference List		
1	Neufert, Ernst, Architects' Data.		
2	Architectural GRAPHIC Standards. NY: John Wiley & Sons, Inc., 2004.		
3	Course Notes: Architectural Principles		
4	http://www.designbasics.com/		

8. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	\checkmark	7	Wireless Board	×







2	Lab Facilities	×
3	White Board	
4	Data Show System	
5	Visualizer	×
6	Smart Board	

8	Presenter	
9	Sound System	\checkmark
10	Wire-Internet	×
11	Wireless Internet	\checkmark
12		-

9. Matrix of Knowledge and Skills of the Course:

No.	Торіс	Attributes	Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
1	المشروع الثانی (مبنی رأسی متعدد الادوار : برج اداری – مجمع خدمی – مبنی حکومی)	12, 13	A ₁₃	B ₀₃	C ₀₂	D ₀₁
2	المعابير التصميمية لعناصر المشروع- النظريات -	12, 13	A ₁₃	\mathbf{B}_{10}	C ₁₇ , C ₁₈	D_{02}, D_{03}
3	بحث تطبیقی (أمثلة لمشرو عات ، نظریات معماریة)	12, 13	A ₁₃	B ₁₃	C _{18,} C ₁₉	D ₀₆
4	متابعة وتصحيح (اسكيز فكرة وموقع عام)	13	A ₂₃	B_{13}, B_{16}, B_{17}	C_{18}, C_{19}	D ₀₂ , D _{03,} D ₀₆
5	مناقشة عامة ومفتوحة للمرحلة السابقة (اسكيز ٢)	13	A ₂₃	B ₁₇	C_{18}, C_{19}	D ₀₂ , D _{03,} D ₀₆
6	متابعة وتصحيح (واجهات وقطاعات	13	A ₂₃	B ₁₇	C _{18,} C ₁₉	$D_{02}, D_{03,}$ D_{06}
7	تبييض المشروع	12, 13, 14	-		C ₁₈ , C ₁₉	D_{03}, D_{06}

Course Coordinator:

Associate Professor Dr. Alaa Shams El-Deen Al-Eishy

Head of Department:

Professor Dr. Mohammad Mohammad Taha Al-Azab

Date of Approval: