



**Course Specifications:**  
**ARE7423 – Elective 05 – Urban Renewal and Upgrading**



**1. Basic Information**

<b>Program Title</b>	Architectural Engineering
<b>Department offering the Program</b>	Architectural Engineering
<b>Department Responsible for the Course</b>	Architectural Engineering
<b>Course Title</b>	Elective 05 – Urban Renewal and Upgrading
<b>Course Code</b>	ARE7423
<b>Year/ Level</b>	Fourth Year – Second Term
<b>Specialization</b>	Major
<b>Authorization date of course specification</b>	2005

<b>Teaching Hours</b>	Lectures	Tutorial	Practical
	2	2	0

**2. Course Attributes:**

No.	Attribute
05.	Use the techniques, skills, and appropriate engineering tools, necessary for engineering practice and project management.
08	Consider the impacts of engineering solutions on society & environment.
15.	Demonstrate knowledge of cultural diversity, differences and the impact of a building on community character and identity.
16.	Address urban issues, planning, and community needs through design work.
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 <sub>04</sub> .	Principles of design including elements design, process and/or a system related to specific disciplines.
A <sub>07</sub> .	Business and management principles relevant to engineering.
A <sub>08</sub> .	Current engineering technologies as related to disciplines.
A <sub>21</sub> .	The role of the architecture profession relative to the construction industry and the overlapping interests of organizations representing the built environment.
A <sub>23</sub> .	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 <sub>04</sub> .	Combine, exchange, and assess different ideas, views, and knowledge from a range of sources.
B <sub>15</sub> .	Predict possible consequences, by- products and assess expected performance of



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	design alternatives.
B <sub>16</sub> .	Reconcile conflicting objectives and manage the broad constituency of interests to reach optimum solutions.
B <sub>20</sub> .	Discuss, search and formulate informed opinions appropriate to specific context and circumstances affecting architecture profession & practice.

**c. Professional Skills**

No.	Professional Skills
C <sub>09</sub> .	Demonstrate basic organizational and project management skills.
C <sub>11</sub> .	Exchange knowledge and skills with engineering community and industry.
C <sub>20</sub> .	Provide leadership and education to the client particularly with reference to sustainable design principles.
C <sub>21</sub> .	Respond effectively to the broad constituency of interests with consideration of social and ethical concerns.

**d. General Skills**

No.	General Skills
D <sub>01</sub> .	Collaborate effectively within multidisciplinary team.
D <sub>03</sub> .	Communicate effectively.
D <sub>04</sub> .	Demonstrate efficient IT capabilities.
D <sub>06</sub> .	Manage tasks and resources efficiently.
D <sub>09</sub> .	Refer to relevant literature effectively.

**4. Course Contents:**

No.	Topics
1	Principles of detailed urban planning.
2	Urban renewal and upgrading principles.
3	Visual studies and principles of visual formation in planning.
4	Planning sustainable landscape elements.

**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	√



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**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	√	A <sub>04</sub> , A <sub>08</sub> , A <sub>21</sub> , A <sub>23</sub> , B <sub>04</sub> , B <sub>15</sub> , B <sub>16</sub> , B <sub>20</sub> , D <sub>01</sub> , D <sub>03</sub> , D <sub>06</sub> , D <sub>09</sub> .
2	Oral Examination	×	-
3	Practical Examination	×	-
4	Semester work	√	A <sub>07</sub> , A <sub>08</sub> , A <sub>21</sub> , A <sub>23</sub> , B <sub>15</sub> , B <sub>20</sub> , D <sub>01</sub> , D <sub>03</sub> , D <sub>06</sub> , D <sub>09</sub> .
5	Other types of assessment	×	-
6	Final Term Examination	√	A <sub>07</sub> , A <sub>08</sub> , A <sub>21</sub> , A <sub>23</sub> , B <sub>15</sub> , B <sub>20</sub> , C <sub>09</sub> , C <sub>11</sub> , C <sub>20</sub> , C <sub>21</sub> .

**6.2 Assessment Schedule:**

No.	Assessment Method	Weeks
1	Mid Term Examination	08 <sup>th</sup>
2	Oral Examination	×
3	Practical Examination	×
4	Semester work	2 <sup>nd</sup> -7 <sup>th</sup> ; 09 <sup>th</sup> – 14 <sup>th</sup>
5	Other types of assessment	×
6	Final Term Examination	15 <sup>th</sup>



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**6.3 Weighting of Assessments:**

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Oral Examination	-
3	Practical Examination	-
4	Semester work	20%
5	Other types of assessment	-
6	Final Term Examination	70%
Total		100%

**7. List of References**

No.	Reference List
1	لتجديد والارتقاء الحضري في المدن العربية ، د عبد الباقي ابراهيم ، مركز الدراسات التخطيطية والمعمارية بالقاهرة
2	جائزة الاغاخان ، اسماعيل سراج الدين ، مكتبة الاسكندرية
3	العمارة في مصر القديمة ، محمد أنوار شكرى ، مكتبة الانجلو المصرية

**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.	Topic	Attributes	Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
1	Principles	05, 08	A <sub>04</sub>	B <sub>04</sub>	-	D <sub>01</sub> , D <sub>03</sub>
2	Urban renewal and upgrading principles.	15, 16	A <sub>07</sub> , A <sub>08</sub>	B <sub>04</sub>	C <sub>09</sub>	D <sub>04</sub> , D <sub>09</sub>
3	Visual studies and principles of formation in planning.	15, 16, 17	A <sub>07</sub> , A <sub>08</sub>	B <sub>15</sub>	C <sub>09</sub>	D <sub>06</sub> , D <sub>09</sub>
4	Planning sustainable landscape elements.	16, 17	A <sub>21</sub> , A <sub>23</sub>	B <sub>16</sub> , B <sub>20</sub>	C <sub>11</sub> , C <sub>20</sub> , C <sub>21</sub>	D <sub>01</sub> , D <sub>03</sub> , D <sub>06</sub> , D <sub>09</sub>

**Course Coordinator:** Dr. Mona Awad El-Wazir

**Head of Department:** Professor Dr. Mohammad Mohammad Taha Al-Azab

**Date of Approval:**