



**Course Specifications:**  
**ARE7421 - Housing & Urban Design 2**



### 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>	Housing & Urban Design 2
<b>Course Code</b>	ARE7421
<b>Year/ Level</b>	Fourth Year – Second Semester
<b>Specialization</b>	Major
<b>Authorization date of course specification</b>	2005

<b>Teaching Hours</b>	Lectures	Tutorial	Practical
	2	4	0

### 2. Course Attributes:

No.	Attribute
05	Use the techniques, skills, and appropriate engineering tools, necessary for engineering practice and project management.
06	Work effectively within multi-disciplinary teams.
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>17</sub>	The processes of spatial change in the built and natural environments; patterns and problems of cities; and positive & negative impacts of urbanization.
A <sub>18</sub>	The significance of urban spaces and the interaction between human behavior, built environment and natural environment.
A <sub>22</sub>	Various dimensions of housing problem and the range of approaches, policies, and practices that could be carried out to solve this problem.
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>03</sub>	Think in a creative and innovative way in problem solving and design.
B <sub>04</sub>	Combine, exchange, and assess different ideas, views, and knowledge from a



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	range of sources.
B <sub>10</sub>	Incorporate economic, societal, environmental dimensions and risk management in design.
B <sub>13</sub>	Integrate different forms of knowledge, ideas from other disciplines, and manage information retrieval to create new solutions
B <sub>18</sub>	Integrate community design parameters into design projects.
B <sub>19</sub>	Appraise the spatial, aesthetic, technical and social qualities of a design within the scope and scale of a wider environment.
B <sub>21</sub>	Analyze the range of patterns and traditions that have shaped and sustained cultures and the way that they can inform design process.

**c. Professional Skills:**

No.	Professional Skills
C <sub>05</sub>	Use computational facilities and techniques, measuring instruments, workshops and laboratory equipment to design experiments, collect, analyze, and interpret results.
C <sub>13</sub>	Produce and present architectural, urban design, and planning projects using an appropriate range of media and design-based software
C <sub>17</sub>	Demonstrate professional competence in developing innovative and appropriate solutions of architectural and urban problems.
C <sub>18</sub>	Display imagination and creativity.
C <sub>19</sub>	Respect all alternative solutions; changes in original plan of the project, differences in style, culture, experience and treat others with respect.
C <sub>21</sub>	Respond effectively to the broad constituency of interests with consideration of social and ethical concerns.
C <sub>22</sub>	Contribute positively to the aesthetic, architecture and urban identity, and cultural life of the community.

**D. General Skills:**

No.	General Skills
D <sub>01</sub>	Collaborate effectively within multidisciplinary team.
D <sub>02</sub>	Work in stressful environment and within constraints.
D <sub>03</sub>	Communicate effectively.
D <sub>04</sub>	Demonstrate efficient IT capabilities.
D <sub>05</sub>	Lead and motivate individuals.
D <sub>06</sub>	Manage tasks and resources efficiently.

**4. Course Contents:**

No.	Topics
1	مقدمة عامة
2	المنظومة البصرية في المدينة
3	عناصر المنظومة البصرية
4	التشكيل البصري



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5	عناصر تنسيق الموقع
6	مناقشة عامة ومشروع تطبيقي
7	منظومة الخدمات العامة
8	معايير التصميم العمراني لمناطق الخدمات
9	التصميم البصري للفراغات العامة بمناطق الخدمات العامة
10	الاعتبارات التصميمية العمرانية لمناطق الخدمات
11	دراسة تطبيقية لمنطقة خدمات (مركز مجاورة- مركز حي - مركز مدينة )
12	مشروع تطبيقي
13	مناقشة المشروع
14	مناقشة عامة وحوار مشوح

## 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	Encouraging students to participate in competitions with rewarded bonus marks.	Increasing excellent students' competitiveness

## 6. Student Assessment:



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**6.1 Student Assessment Methods:**

No.	Assessment Method	Choice	ILOs
1	Mid Term Examination	√	A <sub>17</sub> , A <sub>18</sub> , B <sub>03</sub> , B <sub>04</sub> , B <sub>10</sub> , D <sub>01</sub> , D <sub>02</sub> , D <sub>03</sub>
2	Oral Examination	×	-
3	Practical Examination	×	-
4	Semester work	√	A <sub>17</sub> , B <sub>13</sub> , C <sub>05</sub> , C <sub>13</sub> , C <sub>17</sub> , C <sub>18</sub> , D <sub>04</sub>
5	Other types of assessment	×	-
6	Final Term Examination	√	A <sub>22</sub> , A <sub>23</sub> , B <sub>03</sub> , B <sub>18</sub> , B <sub>19</sub> , C <sub>19</sub> , C <sub>21</sub> , C <sub>22</sub> , D <sub>05</sub> , D <sub>06</sub>

**6.2 Assessment Schedule:**

No.	Assessment Method	Weeks
1	Mid Term Examination	8 <sup>th</sup>
2	Oral Examination	×
3	Practical Examination	×
4	Semester work	2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> , 10 <sup>th</sup> , 12 <sup>th</sup>
5	Other types of assessment	×
6	Final Term Examination	15 <sup>th</sup>

**6.3 Weighting of Assessments:**

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Oral Examination	-
3	Practical Examination	-
4	Semester work	30%
5	Other types of assessment	-
6	Final Term Examination	60%
Total		100%

**7. List of References**

No.	Reference List
1	التخطيط العمراني / الجزء الأول / د شفق الوكيل
2	التخطيط العمراني / الجزء الثاني (الإسكان-الخدمات-الحركة) - أ.د/ شفق الوكيل
3	موقع هيئة التخطيط العمراني

**8. Facilities Required for Teaching and Learning:**

No.	Facility	Choice
1	Lecture Classroom	√
2	Lab Facilities	×
3	White Board	√

No.	Facility	Choice
7	Wireless Board	×
8	Presenter	√
9	Sound System	√



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4	Data Show System	√		10	Wire-Internet	×
5	Visualizer	×		11	Wireless Internet	√
6	Smart Board	√		12	...	

**9. Matrix of Knowledge and Skills of the Course:**

No.	Topic	Attributes	Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
1	مقدمة عامة		A <sub>17</sub>	-	-	-
2	المنظومة البصرية فى المدينة	05, 06	A <sub>17</sub>	B <sub>04</sub>	C <sub>05</sub> , C <sub>13</sub>	-
3	عناصر المنظومة البصرية	15, 16	A <sub>17</sub>	B <sub>13</sub>	C <sub>05</sub> , C <sub>13</sub>	-
4	التشكيل البصرى	15, 16	A <sub>17</sub>	B <sub>03</sub> , B <sub>10</sub>	C <sub>17</sub>	D <sub>01</sub> , D <sub>02</sub>
5	عناصر تنسيق الموقع	15, 16	A <sub>17</sub>	B <sub>13</sub>	C <sub>17</sub>	D <sub>02</sub>
6	مناقشة عامة ومشروع تطبيقى	15, 16	A <sub>18</sub>	B <sub>13</sub>	C <sub>17</sub>	D <sub>03</sub>
7	منظومة الخدمات العامة	15, 16	A <sub>18</sub>	B <sub>18</sub>	C <sub>17</sub>	D <sub>03</sub>
8	معايير التصميم العمرانى لمناطق الخدمات	15, 16	A <sub>18</sub>	B <sub>18</sub>	C <sub>18</sub>	D <sub>04</sub>
9	التصميم البصرى للفراغات العامة بمناطق الخدمات العامة	15, 16	A <sub>18</sub>	B <sub>18</sub>	C <sub>18</sub>	D <sub>04</sub>
10	الاعتبارات التصميمية العمرانية لمناطق الخدمات	15, 16	A <sub>22</sub>	B <sub>18</sub>	C <sub>18</sub>	D <sub>05</sub>
11	دراسة تطبيقية لمنطقة خدمات (مركز مجاورة- مركز حى - مركز مدينة)	16, 17	A <sub>22</sub>	B <sub>18</sub>	C <sub>18</sub>	D <sub>05</sub>
12	مشروع تطبيقى	16, 17	A <sub>22</sub> , A <sub>23</sub>	B <sub>19</sub> , B <sub>21</sub>	C <sub>19</sub> , C <sub>21</sub>	D <sub>06</sub>
13	مناقشة المشروع	16, 17	A <sub>22</sub> , A <sub>23</sub>	B <sub>19</sub> , B <sub>21</sub>	C <sub>21</sub> , C <sub>22</sub>	D <sub>04</sub> , D <sub>05</sub> , D <sub>06</sub>
14	مناقشة عامة وحوار مفتوح	-	-	-	-	D <sub>04</sub> , D <sub>05</sub> , D <sub>06</sub>

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**Date of Approval:**