



**Course Specifications:**  
**ARE7411 – Architectural Design 06**



### 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>	Architectural Design 06
<b>Course Code</b>	ARE7411
<b>Year/ Level</b>	Fourth Year – First Term
<b>Specialization</b>	Major
<b>Authorization date of course specification</b>	2005

<b>Teaching Hours</b>	Lectures	Tutorial	Practical
	1	6	0

### 2. Course Attributes:

No.	Attribute
05	Use the techniques, skills, and appropriate engineering tools, necessary for engineering practice and project management.
11	Engage in self- and life- long learning.
12	Design robust architectural projects with creativity and technical mastery.
14	Adopt a holistic problem solving approach for complex, ambiguous, and open-ended challenges and scenarios.
15	Demonstrate knowledge of cultural diversity, differences and the impact of a building on community character and identity.
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>06</sub>	Quality assurance systems, codes of practice and standards, health and safety requirements and environmental issues.
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>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



**Course Specifications:  
ARE7411 – Architectural Design 06**



	manage information retrieval to create new solutions.
B <sub>16</sub>	Reconcile conflicting objectives and manage the broad constituency of interests to reach optimum 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.

**c. Professional Skills**

No.	Professional Skills
C <sub>02</sub>	Professionally merge the engineering knowledge, understanding, and feedback to improve design, products and/or services.
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>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.
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>06</sub>	Manage tasks and resources efficiently.
D <sub>07</sub>	Search for information and adopt life-long self learning.

**4. Course Contents:**

No.	Topics
1	Introduction and research paper (in groups)
2	Program analyses
3	Design Ideas: layouts, plans, elevations
4	Design Ideas (Final Drawings)
5	Evaluation and jury

**5. Teaching and Learning Methods:**

**5.1 Normal Students:**



**Course Specifications:  
ARE7411 – Architectural Design 06**



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	√	C <sub>02</sub> , C <sub>13</sub> , C <sub>17</sub> , D <sub>01</sub> , D <sub>02</sub> , D <sub>03</sub> , D <sub>04</sub> , D <sub>06</sub> , D <sub>07</sub> .
2	Oral Examination	×	C <sub>17</sub> , D <sub>01</sub> , D <sub>02</sub> , D <sub>03</sub> , D <sub>04</sub> , D <sub>06</sub> , D <sub>07</sub> .
3	Practical Examination	×	-
4	Semester work	√	A <sub>06</sub> , A <sub>23</sub> , B <sub>03</sub> , B <sub>10</sub> , B <sub>13</sub> , B <sub>16</sub> , B <sub>18</sub> , B <sub>19</sub> , C <sub>02</sub> , C <sub>13</sub> , C <sub>17</sub> , C <sub>18</sub> , C <sub>19</sub> , C <sub>22</sub> .
5	Other types of assessment	×	-
6	Final Term Examination	√	B <sub>03</sub> , B <sub>10</sub> , B <sub>13</sub> , C <sub>02</sub> , C <sub>13</sub> , C <sub>17</sub> , D <sub>01</sub> , D <sub>02</sub> , D <sub>03</sub> , D <sub>04</sub> , D <sub>06</sub> , D <sub>07</sub> .



**Course Specifications:  
ARE7411 – Architectural Design 06**



**6.2 Assessment Schedule:**

No.	Assessment Method	Weeks
1	Mid Term Examination	08 <sup>th</sup>
2	Oral Examination	07 <sup>th</sup> , 14 <sup>th</sup>
3	Practical Examination	×
4	Semester work	2 <sup>nd</sup> -6 <sup>th</sup> ; 09 <sup>th</sup> -13 <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	-
2	Oral Examination	8.5%
3	Practical Examination	-
4	Semester work	41.5%
5	Other types of assessment	-
6	Final Term Examination	50%
Total		100%

**7. List of References**

No.	Reference List
1	Brown, G. Z. Sun, Wind and Light: Architectural Design Strategies. John Wiley and Sons Inc., 2000.
2	<a href="http://www.archspace.com">www.archspace.com</a>
3	Architecture Record Magazine
4	The course notes are to be prepared by groups of students after constant reviewing by the course coordinator.

**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	Introduction and research paper (in groups)	05	A <sub>06</sub>	-	-	-



**Course Specifications:**  
**ARE7411 – Architectural Design 06**



2	Program analyses	05, 11, 12	A <sub>06</sub>	-	-	-
3	Design Ideas: layouts, plans, elevations	12, 14	A <sub>06</sub>	B <sub>03</sub>	-	D <sub>01</sub> , D <sub>02</sub>
4	Design Ideas (Final Drawings)	14, 17	A <sub>23</sub>	B <sub>10</sub> , B <sub>13</sub>	C <sub>04</sub> , C <sub>13</sub>	D <sub>02</sub> , D <sub>03</sub>
5	Evaluation and jury	12, 14, 15, 17	-	B <sub>13</sub>	C <sub>17</sub> , C <sub>18</sub> , C <sub>19</sub> , C <sub>22</sub>	D <sub>02</sub> , D <sub>03</sub> , D <sub>04</sub> , D <sub>06</sub> , D <sub>07</sub>

**Course Coordinator:** Professor Dr. Mohammad Mohammad Taha Al-Azab

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

**Date of Approval:**