



**Course Specifications:  
ARE7412 - Executive 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>	Executive Design 2
<b>Course Code</b>	ARE7412
<b>Year/ Level</b>	Fourth Year – First Semester
<b>Specialization</b>	Major
<b>Authorization date of course specification</b>	2005

<b>Teaching Hours</b>	Lectures	Tutorial	Practical
	1	5	0

**2. Course Attributes:**

No.	Attribute
11	Engage in self- and life- long learning
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
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>8</sub>	Current engineering technologies as related to disciplines
A <sub>15</sub>	Fundamentals of building acquisition, operational costs, and of preparing construction documents and specifications of materials, components, and systems appropriate to the building.
A <sub>16</sub>	Theories and legislations of urban and regional planning.
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.

**b. Intellectual Skills**

No.	Intellectual Skills
B <sub>03</sub>	Think in a creative and innovative way in problem solving and design.



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B <sub>10</sub>	Incorporate economic, societal, environmental dimensions and risk management in design
B <sub>12</sub>	Create systematic and methodic approaches when dealing with new and advancing technology
B <sub>13</sub>	Integrate different forms of knowledge, ideas from other disciplines, and manage information retrieval to create new solutions
B <sub>17</sub>	Integrate relationship of structure, building materials, and construction elements into design process.

**c. Professional Skills**

No.	Professional Skills
C <sub>14</sub>	Produce professional workshop and technical drawings using traditional drawing and computer-aided drawings' techniques.
C <sub>15</sub>	Use appropriate construction techniques and materials to specify and implement different designs.
C <sub>16</sub>	Participate professionally in managing construction processes.
C <sub>18</sub>	Display imagination and creativity.

**D. General Skills**

No.	General Skills
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.
D <sub>08</sub>	Acquire entrepreneurial skills.

**4. Course Contents:**

No.	Topics
1	Fundamentals of building acquisition, operational costs, and of preparing construction documents and specifications of materials, components, and systems appropriate to the building.
2	Methods and implementation steps for the various acts of the modern building
3	Incorporate economic, societal, environmental dimensions and risk management in design
4	The role of the architecture profession relative to the construction industry and the overlapping interests of organizations representing the built environment

**5. Teaching and Learning Methods:**

**5.1 Normal Students:**



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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	√	A <sub>08</sub> , A <sub>15</sub> , A <sub>16</sub> , B <sub>10</sub> , B <sub>12</sub> , B <sub>13</sub> , C <sub>14</sub> , C <sub>15</sub> , D <sub>02</sub> , D <sub>03</sub>
2	Oral Examination	√	D <sub>02</sub> , D <sub>03</sub> , D <sub>07</sub> , D <sub>08</sub>
3	Practical Examination	×	-
4	Semester work	√	A <sub>15</sub> , B <sub>12</sub> , B <sub>10</sub> , C <sub>14</sub> , C <sub>15</sub> , D <sub>04</sub> , D <sub>06</sub>
5	Other types of assessment	×	-
6	Final Term Examination	√	A <sub>21</sub> , B <sub>17</sub> , C <sub>16</sub> , C <sub>18</sub> , D <sub>07</sub> , D <sub>08</sub>

**6.2 Assessment Schedule:**



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No.	Assessment Method	Weeks
1	Mid Term Examination	8 <sup>th</sup>
2	Oral Examination	12 <sup>th</sup>
3	Practical Examination	×
4	Semester work	2 <sup>nd</sup> -7 <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	7%
2	Oral Examination	13%
3	Practical Examination	-
4	Semester work	27%
5	Other types of assessment	-
6	Final Term Examination	53%
Total		100%

**7. List of References**

No.	Reference List
1	Architectural Recor Detail _Annual_ 1d
2	الانشاء المعماري _دكتور محمد عبد الله

**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	Fundamentals of building acquisition, operational costs..	11	A <sub>8</sub>	B <sub>10</sub>	C <sub>14</sub>	D <sub>3</sub>
2	Methods and implementation steps for the various acts of the modern	12	A <sub>15</sub>	B <sub>12</sub>	C <sub>15</sub> ,	D <sub>02</sub> , D <sub>04</sub>



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	building					
3	Incorporate economic, societal, environmental dimensions and risk management in design	13, 14	A <sub>16</sub>	B <sub>13</sub>	C <sub>16</sub>	D <sub>06</sub> , D <sub>07</sub>
4	The role of the architecture profession relative to the construction industry...	17	A <sub>21</sub>	B <sub>17</sub>	C <sub>18</sub> ,	D <sub>07</sub> , D <sub>08</sub>

**Course Coordinator:** Dr. Saad Makram Saad

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

**Date of Approval:**