DEPARTMENT OF ARCHITECTURE ENGINEERING
ARCHITECTURE ENGINEERING PROGRAM, BSC.

Course Syllabus Spring 2021/2022

1. **Course number and name**
   AR112 Introduction to Architecture Design (2)

2. **Credits and contact hours**
   (1+4) 3 credit hours, 5 contact hours

3. **Course type**
   Face to face Learning Course

4. **Instructor's or course coordinator's name**
   Arch. Roa'a Zidan(**Coordinator**)
   Arch.Mariam Saleh

5. **Textbook information**
   Francis D. K. Ching, Architecture: Form, Space, and Order. 2007

   Wucius Wong 1993: Principles of form and design, John Wiley and sons, INC. USA

   Edward T.White, Site Analysis, diagraming information for architectural design, Architectural media Ltd, USA, 1991.

   Donald Watson, Michael J. Crosbie, John Hancock Callender, Time Saver Standards for Architectural Design Data, 7th Edition, McGraw-Hill, USA, 1997.

   Laseau, Paul, Graphic Thinking for Architects and Designers, New York: Van Nostrand Reinhold, 1989.

   a. **Other supplemental materials**
      Instructor's notes

6. **Specific course information**
   a. **Catalog description**
      Basic architectural elements, design principles and order, developing architectural drawings, geometrical complexity, analyzing buildings, site analysis, design skills, creating basic architectural idea of structures ,sheltering and layering, making aesthetic judgments about building design.

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Prerequisites or co-requisites
Prerequisite: AR 111 Introduction to Architecture Design (1) (806111)

b. The course is:
Required in the Architectural Engineering program.

7. Specific goals for the course
After completion of the course, students are expected to be able to:

A. Knowledge and Understanding

1. Understanding the elements and principles of design more deeply.
2. Creating well-crafted and composed three-dimensional designs using a variety of materials and considering given conceptual parameters.
3. Build upon the visual elements and the principles of design to create stronger, more creative, and effective 2d and 3d-dimensional compositions.
4. Using basic knowledge of architectural terminology to express ideas verbally.
5. Developing 2D architectural drawings.
6. Demonstrate a working sensibility for the dynamics of three-dimensional design.

8. Learning Outcomes and their Alignment with Program Educational Objective (PEO's), Methods of Delivery, and Assessment Methods:

Learning Outcomes	Program	Method of Delivery	Assessment Method
A.1 Understanding the elements and principles of architectural design.	1.1.1	Lectures (Case studies)	Discussion Assignment
A.1 Understanding the nature of the project and site justifications	1.1.2	Lectures (Case studies+Site Analysis) Studio Design	Discussion Submission

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A.2 Collecting data, analyzing precedents, site, and space program for simple buildings, and creating design responses and solutions.	1.1.5	Lectures Studio Design	Discussion Submission
A.3 Creating well-crafted and composed three-dimensional designs using a variety of materials and considering given conceptual parameters and developing 2D architectural drawings	1.3.2	Lectures (case studios) (Articles+ documentaires) Studio Design	Project
A.4 Using conceptual and visual parameters to create stronger, more creative, and effective 2d and 3d-dimensional compositions.	1.3.2	Lectures (videos and articles Studio Design	Project/ Sketch Design

9. Weekly Teaching Plan

Week No.	Lecture	Topic	Method of Delivery
1	Mon	Project Introduction	Lecture
	Wed	Project Introduction	Lecture
2	Mon	Definition of project No. 1	Studio /active learning
	Wed	Analysis: Case studies 16.3.2022	Lecture
3	Mon	Concept development	Lecture /Studio active learning
	Wed	Final concept 23.3.2022	Studio/ active learning
4	Mon	Studio active learning+ Development of initial drawings	Studio /active learning
	Wed	Studio active learning+ Development	Lecture /Studio active learning
5	Mon	Project (1) Pre-Final Submission 28.3.2022	Studio active learning

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	Wed	Definition of project No. 2	Lecture /Studio active learning
6	Mon	Project (1) Final Submission 4.4.2022	Studio active learning
	Wed	Project 2 Introduction;	Lecture
7	Mon	Site analysis and case studies	Lecture/ active learning
	Wed	Space program	Lecture/ active learning
8	Mon	Studio active learning+ Development	Studio /active learning
	Wed	Studio active learning+ Development	Studio
9	Mon	Project (2) First submission. (Site analysis + Study Cases + Design Standards + Space Program) 25.4.2022	Studio /active learning
	Wed	Project (2) concept	Lecture/ active learning
10	Mon	Studio Work + Development	Studio /active learning
	Wed	Studio Work + Development	Lecture /Studio
11	Mon	Project (2) concept submission 9.5.2022	Studio /active learning
	Wed	Studio Work + Development	Studio /active learning
12	Mon	Sketch design	Studio
	Wed	Studio Work + Development	Lecture /Studio
13	Mon	Project (2) pre-final submission. (Plans and sections Development)	Studio /active learning
	Wed	Studio Work + Development	Studio /active learning
14	Mon	Project (2) Final Submission. (Plans + Elevations	Studio /active learning

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1. Grade Distribution:

Assessment	Grade	Week No.
- Project One; Submissions	25%	1-6th Week
-Project Two; Submissions	25%	7-11th Week
-Sketch Design	10%	13th Week
- Final Submission (Pre-Final and Final Submissions)	40%	16th Week

Note: Make-up exams will be offered for valid reasons. It may be different from regular exams in content and format.