



**DEPARTMENT OF ARCHITECTURE ENGINEERING
ARCHITECTURE ENGINEERING PROGRAM, BSC.**

Course Syllabus Fall 2021/2022

1. Course number and name

AR 111 Introduction to Architectural Design 1

2. Credits and contact hours

(1+4) 3 credit hours, 5 contact hours

3. Course type

Face to face education

4. Instructor's or course coordinator's name

Arch. Roa'a Zidan (**Coordinator**)

Dr. Reem Barakat

5. Textbook information

Ching, Francis D. K. , Architecture: Form. Space and Order ,Van Nostrand Reinhold Company, N.Y 2007

Jane Anderson, Basics Architecture: Architectural Design, AVA Publishing SA, Switzerland, 2010

Pierre von Meiss , Elements of Architecture: From Form to Place, Routledge; New Edition, 1990

a. Other supplemental materials

Instructor's notes

6. Specific course information

a. Catalog description

This course introduces junior students to basic design elements, principles and methods of architectural thinking at various stages of design. Students will be given a series of small assignments of increasing complexity, utilizing developed skills in the abstraction, transformation, and composition of two- and three- dimensional design. Each assignment shall be aimed at teaching the principles of aesthetics and visual design and its applications in architecture forms and spaces. Students will be expected in the final stage to produce a small applicable project presenting in plan, elevations and sections.



**DEPARTMENT OF ARCHITECTURE ENGINEERING
ARCHITECTURE ENGINEERING PROGRAM, BSC.**

b. Prerequisites or co-requisites

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c. The course is:

Required in the Architecture program.

7. Specific goals for the course

a. Intended Learning Outcomes:

Upon completion of the course, this module should lead to the following learning outcomes:

A. Knowledge and Understanding (student should) :

- A1. Understand the basic elements of design
- A2. Define the importance of design
- A3. Identify the different aspects of design principles
- A4. Identify variety of shapes, planes, volumes and masses
- A5. Understand the potentials of different solutions
- A6. Understand the interrelation between masses and spaces

B. Cognitive and Intellectual Skills:

- B1. Discuss the role of designer and architect in society
- B2. Discuss the role of designer in shaping environment
- B3. Discuss some topics that are related to impact of complexity on vocabulary
- B4. Discuss the value of skills and alternatives in creating good solutions
- B5. Identify the importance of generating alternatives in the creation of tangible solutions

C. Subject specific skills:

- C1. Imagination skills
- C2. Basic drawing skills
- C3. Knowledge of basic design skills

D. Transferable Skills:

- D1. Defining better thinking process and generating alternatives
- D2. Generating solutions

8. Intended Learning Outcomes and their Alignment with Methods of Delivery, and Assessment Methods:



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 ARCHITECTURE ENGINEERING PROGRAM, BSC.**

Learning Outcomes	Program PEOs	Method of Delivery	Assessment Method
Course Outcomes			
Understand the basic elements of design and the different aspects of design principles	1.3.2.	Studio design and Lectures	Projects.
Ability to use basics of organizing and formation, and their ability to affect 2D and 3D design	1.3.2.	Studio design and Lectures	Projects and sketch design

9. Weekly Teaching Plan

Week No.	Lecture	Topic	Method of Delivery
1		Introduction to basic design and architecture	Lecture
		Introduction to basic design and architecture	Lecture +Studio
2		First phase : understanding basic shapes/ Abstraction	lecture
		First phase: understanding basic shapes/ Abstraction	Lecture +Studio
3		Studio Work + Development	Lecture +Studio
		Studio Work + Development	Discussion
4		Studio Work + Development	Studio
		Submission of first phase (average of one board for each student)	Discussion
5		Second phase: Introduction to space (2D-3D) Order Composition of 2D designs and converting them into 3D designs and models	Lecture +Studio
		Order Composition of 2D designs	Lecture +Studio
6		Order Composition of 2D designs	Studio
		Order Composition of 2D designs	Studio
7		Studio Work + Development	Studio
		Studio Work + Development	Studio
8		converting 2D composition into 3D designs and models	Lecture +Studio
		Studio Work + Development	Studio



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9		Studio Work + Development	Studio Discussion
		Submission of second phase	Internal jury
10		Final phase: 6 Cubes space within space	Lecture +Studio
		Space within space	Discussion
11		Studio Work + Development	Pinup/ Discussion
		Submission (3)	Studio
12		Cube developing	Studio
		Cube developing	Studio
13		Cube developing	Studio
		Studio Work + Development	Pinup/Discussion
14		convert cube developing to Architecture	Studio
		convert cube developing to Architecture	Studio
15		Studio Work + Development	Studio
		Final submission	Pinup

1. Grade Distribution:

Assessment	Grade	Week No.
1 st submission	25%	4 th Week
2 nd submission	25%	8 th Week
Development/ sketch design	10%	11 th week
Prefinal submission	15%	13 th week
Final submission	25%	16 th Week

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