



**SALAHADDIN UNIVERSITY
COLLEGE OF ENGINEERING
DEPARTMENT OF ARCHITECTURE**

Architectural Design II

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1. General Information

Architectural Design

Course Title	Architectural Design 2
Course Code	4101
College	Engineering
Department	Architectural Engineering
No. of Credits	8
Pre-requisites Course	Design 1
Pre-requisites Course Code	
Course Coordinator(s)	Dr. Hardi K. Abdullah
Email	Hardi.abdullah@su.edu.krd hawar.jamal@su.edu.krd Suhaib_jalal fenk.miran@su.edu.krd zenab.majid@su.edu.krd
Teaching staff	Dr. Hardi K. Abdullah Dr. Zaynab Abdulrazzaq Yasir Suhaib Jalil Fenk D. Miran Dr. Hawar Himdad Zenab K. Majed Ahmad Nawzad . Laree Shawqi .
Class Hours	10
Course Type	Compulsory
Offer in Academic Year	2021\2022

2. Course Description

Students are required to design a space for you as an architecture 'city' on an empty abandoned lot in College of Engineering. The space is to fit the specific needs of the user (as a hideout space for viewing, transitional space, space for dreaming, space showcasing hobbies or collections and so to speak a getaway space for the user who wants to be alone), space that best fits the personality, occupation and character of the person that the user you are designing for. Considerations should also be given to human scale and dimensional requirements.

The Project will be divided into three major stages:

1. First Prelim submission for Narrative & Storytelling'
2. Pre-final submission Design Exploration (Interim Submission)
3. Final project submission & presentation.

Student in this project will demonstrate understanding of their chosen user thru research after which show the process how this understanding is translated to spatial and form concept & design thru sketches and study models. And involves presentation of the final design thru presentation and model.

3. Course Objectives

1. To further the students ability to create and develop a conceptual narrative.
2. To introduce and create awareness in understanding the dimensional requirements of the human body (anthropometrics and ergonomics).
3. To explore and apply basic design principles and terminologies.
4. To explore how the selection and application of materials in relation to the sensory experience of space.
5. To be able to select and make different study models (sketch, concept, diagram, section and development models)

4. Learning Outcomes

- Generate design concept/idea and translate into simple (architectural) design.
2. Generate design through the process of sketching and model-making.
 3. Document, sketch and explain from personal experiences of the built and natural

Environment

4. Apply the understanding of basic architectural design principles, and the notion of body and space interactions.
5. Produce a well-organized, systematic and creative graphical presentation through a well-drawn and executed two-dimensional form (plans, elevations and sections), three-dimensional form (sectional perspective, axonometric and perspective) and scale modeling.
6. Prepare and enhance student's verbal communication and presentation skills. All three projects are to be external assessors.

5. Course Content

Workload/ Lectures Hours

Salahuddin University - College of Engineering – Department of Architecture

Spring Semester

22 February 2021 – 7/June 2021

Architectural Design I

	Content Description		Work Load/ Lectures (hrs.)
Week 1 31\1 -3\2	theoretical	- Course book introduction - Introduction to site plan - the project definitions \ Architectural spatial composition Dr.Hardi	1
	Practical	Modeling process , Introduction of the horizontal section *Plan and vertical section, Section A-A Dr .Hardi Students working on their model using foam	9
Week 2 7\2-10\2	Theoretical	Introduction to the building material – Figures on views and sections M.Suhib m.Fenk	1
	Practical	Modeling Concept , Multi view drawings , Practicing Plan and section	9
Week4 14\2 - 17\2	Practical	Final submission 17\2	10
Week 4 17\2	Theoretical	- Course book introduction - Introduction to site plan - the project definitions Dr,Hardi Introducing colour for the mass model + furniture + hatching dr.Zynab	1
	Practical	-site visit Taking dimensions and draw sketches -convert the sketches to scale / finalize the site plan -concept of the project	9
Week 5 21\2 -25\2	Theoretical	<ul style="list-style-type: none"> • Introduction of the Shipping Container dimensions And the architecture studio m.Fenk • Introducing to the functions of the project and furniture dimensions and standards m.Suhib 	1
	Practical	Student organization of the their shipping container in their sites and introduce a composition Mass model + Site plan	9
Week6 28\2 \3\3	Theoretical	Introduction to the furniture design dimensions , colour dr.Hawar	1
	Practical	Drawing exercises Students taking dimensions of the drawing hall furniture Draw furniture in their pans Mass model + site plan	9
Week 7 15/3- 18/3	Theoretical	Architectural multiview Drawings: -Doors and windows stairs Dr,Hardi Drawing sections + elevations	1

	Practical	Mass model Function + sections + elevations Concept submission (optional)	9
Week 5			
Nawroz Holiday			
Week 8		Prefinal submission 1- Mass model 2- Plan 3- Site plan 4- 4 elevations 5- 2 sections 6- 1 isometric 7- Using pencil	10
	Theoretical	Critic on their prefinal introduction of the opening	1
	Practical	Development for the openings and section furniture	9
Week 9	Theoretical	Presentation Style Dr.Hawar	1
		final submission 1- Model + site 2- Plan 3- Site plan 4- 4 Elevation 5- 2 Sections 2 Isometric views using colour	9
Week10	Theoretical	Introduction project no.3 design principle 1 harmony + contrast + Balance Dr.Hardi	1
	Practical	Concept Modelling Ppt presentations and example by students	9
Week 11	Theoretical	design principle 2 Rhythm+ Movement + Emphasis m.Fenk	1
	Practical	Citric and development of their projects	9
Week 12	Theoretical	Design principle 3 Unity + Proportion and scale dr,Hawar	1
	Practical	Prefinal submission	9

Week 13	Final submission		10
		Day sketch	
Total Hours of Work Load Lectures			150

6. ECTS

Subject	Education Activity	No.	Description		Activity Type	No. Weeks
Semester	1	Theory	face to face	15	1	15
	2	Preparation (0.5 theory)	out of class	15	0.5	7.5
	3	Practical	face to face	15	9	135
	4	Preparation (1.5 practical)	out of class	15	1.5	22.5
Assignment	5	Report	out of class	1	2	2
	6	weekly presentations	out of class	10	2	20
	7	Submission/prelim	out of class	1	8	8
	8	Submission/pre-final	out of class	1	10	10
	9	Submission/Final	out of class	1	13	13
Assessment	10	Quiz	out of class	2	2	4
	11	Day sketch	out of class	1	3	3
			Face to face hours/15 weeks			150
			Out of class hours/15 weeks			90
			Total hours			240

ECTS (Total hours/ 30)		8

7. Course Assessment Tools

Final grade for this module will be calculated as following:

First semester:100% for semester balance

- Assignments (including all studio-works, home-works , group activities ,day sketch and daily quizzes , Class discussion and participation) 65%

- Weekly final presentation 15%

-Prelim, Pre-final and Final project presentation 15%

-Attendance 5%

Student's attendance is required in all classes.

8. Text books & references:

Reading is vital and fundamental for students, both as part of the course fulfillment and personal development as a designer or an architect. There are many architectural books, magazines and journals that are worth reading.

Textbooks required for Design communication module are :

1. Architecture: Form, Space and Order, Francis Ching, Forth Edition
2. Neufert Architects Data Fourth Edition - By Wiley Blackwell
3. "Time Saver Standards for Architectural Design Data" by John Hanock
4. Architectural Graphics, 4 th Edition by Francis D.K. Ching (Required)
5. Graphics for Architecture, by Kevin Forseth
- 6. Architectural Drawing: A Visual Compendium of Types and Methods

9. Course policy

- Regular attendance is required according to the university rules.
- Daily participation and conducting assignments are required.
- Reading the materials & teachers notes daily.
- The participation of the student will be taken in consideration and it will be evaluated by the lecturer.
- As for the practical part of the material there will be daily degrees for the assignments given and they will have a considerable effect on the final degree.

Spatial Organization and Relationships:

1. D.K. Ching, F. Eckler, J.F. 2013. *Introduction to Architecture*. New Jersey: Wiley & Sons
2. D.K. Ching, F. 1993. *Architecture: Form Space and Order (2nd ed.)*. Van Nostrand Reinhold.

Perception and Experience:

1. Rasmussen, Steen Eiler. 1993. *Experiencing Architecture*. The Massachusetts Institute of Technology. USA.
2. Antoniadou, A. 1992. *Poetics of Architecture*. Van Nostrand Reinhold.
3. Agrest, Diana. 1993. *Architecture from Without*. The MIT Press

Materiality & Form

1. Richard Weston. *Material, Form & Architecture*

Openings in Architecture:

1. Meiss, Pierre. 2002. *Elements of Architecture: From Form to Place*. Spon Press: London.

(See Chapter 1: Openings)

2. Plummer, H. 2012. *The Architecture of Natural Light*. Thames & Hudson

Model-making:

1. Mills, Criss 2000. *Designing with Models: A studio guide to making and using architectural design models*, John Wiley & Sons, Inc, New York.
2. Porter, Tom 2000. *Architectural Supermodels*, Architectural Press, Boston, Mass.

Drawing & Presentation

1. Nick Dunn. *Architectural Model Making*
2. Rendow Yee. *Architectural Drawing- A Visual Compendium of Types and Methods*
3. Eric J. Jenkins. *Drawing to Design: Analyzing Architecture through Freehand drawings*.