SALAHADDIN UNIVERSITY

COLLEGE OF ENGINEERING

DEPARTMENT OF ARCHITECTURE

Architectural Design II

CONTENTS:

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 Barznji
Email	fenk.miran@su.edu.krd
Teaching staff	Suhiab Jalaladdin Fenk D. Miran Lana Muhammed Suham Mushir Sidra Salah
Class Hours	10
Course Type	Compulsory
Offer in Academic Year	2023/2024

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 21 January 2024 – 1/May 2024			
Architectural Design I			
	Content Description		Work Load/ Lectures (hrs.)
Week 1 2024-01-21 2024-01-24	theoretical	- Course book introduction - the project definitions \ Architectural spatial composition. Dr. Hardi	1
	Practical	– Modeling process ,	4
		Introduction of the horizontal section *Plan and vertical sections Dr. Hardi	
		– Modeling process , – Students working on their model using foam	
Week 2 2024-01-28 2024-01-31	Theoretical	Introduction to the building material – Figures on views and sections. M. Suhaib and the staff	1
	Practical	– Modeling Concept , Multi view drawings , Practicing Plan and section – Drawing the sheets – Finalizing spatial composition model	9
		-Feedback and general guidelines for the submission by Dr .Hardi and the staff	
Week3 2024-02-04 2024-02-07	Practical	• Prelim submission Sunday 04-2-2024	10
		○ General feedback and guideline – -Material for the modeling and presentations regulation – -Individual Feedback by the staff	
Week 4 2024-02-11 2024-02-14	Theoretical	- Scale Presentation. Dr. Hardi	1
	Practical	Scale activity and application on the project	4
	Theoretical	Architectural Multiview Drawings: -Doors and windows stairs. Mrs. Fenk	1
	Practical	– Drawing sections + elevations – Presentation on the regulation of the presentation of the per-final submission	4
Week 5 2024-02-18 2024-02-21	Theoretical	– Pre-final submission	1
	Practical	Individual and general criticism – Application of the hatching on the all sheets	4

	Theoretical	– Hatching techniques for the drawings. Mrs. Lana	1
	Practical	– Outdoor activity taking photo for the project for doing the perspective – Application of the hatching on the all sheets	4
Week6 2024-02-25 2024-02-28	FINAL Submission		
Week 7 2024-03-03 2024-03-06	Theoretical	• Introduction of the Shipping Container dimensions and the architecture studio. Dr. Hardi • Introducing to the functions of the project and furniture dimensions and standards. – Introduction to the site analysis and site visit. Mrs. Fenk	1
	Practical	Site visit and site drawing	4
	Theoretical	Introduction to the furniture design dimensions, colour. Mrs. Suham	1
	Practical	– Student organization of the their shipping container in their sites and introduce a composition – Mass model + Site plan	4
Week 8 2024-03-10 2024-03-13	Theoretical	Lecture about trees and figures for the site plan. Mrs. Sidra	1
	Practical	– Drawing exercises – Students taking dimensions of the drawing hall furniture – Draw furniture in their pans – Mass model + site plan	4
	– Theoretical	– Introduction of the color to the container. Mrs. Lana	1
	– Practical	– General Feed back	4
Week 9 2024-03-17	Prelim submission		
	Theoretical and practical	Feedback after the submission -Guideline for pre-final submission	5
Week 9 Nowruz Holiday 2024-03-18 2024-03-24			

Week 10 2024-03-24 2024-03-27	Theoretical And practical	Presentation Style Dr. Hardi Feedback if needed by the student	1
	Pre-final submission 1- Model + site 2- Plan 3- Site plan 4- 4 Elevation 5- 2 Sections 2 Isometric views using colour		
Week10 2024-03-31 2024-04-03	Theoretical	Introduction project design principle 1 harmony + contrast Mrs. Fenk	1
	Practical	Ppt presentations and example by students	4
		Design principle 2 Unity + Proportion and scale Mrs. Suham	1
		Day sketch	4
Week 11 2024-04-07 2024-04-10	Theoretical	design principle 3 Rhythm + Movement + Emphasis Mrs. Lana	1
	Practical	Citric and development of their projects	9
		Design principle 4 Unity + Proportion and scale Mrs. Sidra	
Week 12 2024-04-14 2024-04-17	Theoretical	Design principle 3 Unity + Proportion and scale Mrs. Suham	1
	Practical	Day sketch	9
Week 13 2024-04-21 2024-04-24	Final submission		
Week 14 2024-04-28 2024-05-1	Quizzes And practices		
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. Antoniades, 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.