TISHK INTERNATIONAL UNIVERSITY
FACULTY OF ENGINEERING
Department of ARCHITECTURE,
2021-2022 Spring
Course Information for ARCH 221 ARCHITECTURAL DESIGN II

Course Name:	ARCHITECTURAL DESIGN II

Code	Regular Semester	Theoretical	Practical	Credits	ECTS
ARCH 221	4	2	10	7	10

Name of Lecturer(s)-Academic Title:	Noman Albayaty - MSc
Teaching Assistant:	Dania Idrees, Shahd Ahmed, Lava Ahmed, Suzan Aziz, Tara Fadhil
Course Language:	English
Course Type:	Main
Office Hours	Sunday 10:00 - 12:00
Contact Email:	noman.bayaty@tiu.edu.iq Tel:07703000213
Teacher's academic profile:	MSc. in Architectural Engineering, Mosul University. BSc. in Architectural Engineering, Mosul University.
Course Objectives:	The course aims to train the students on designing projects with a bit of functional complexity. This is the second semester of design, and the students will be working with neighborhood service projects (primary school and health center). By the end of the course students will be able to arrange multiple functions within a logical arrangement and solve several technical issues. The students will also be able to create formal compositions, and suggest ideas in architecture, that can be applied for these building types. Students also will be able to draw architectural drawings perfectly.
Course Description (Course overview):	This course emphasizes on basic constructional details and primary school facility design. Students will make their 1st step toward larger scale designs. Throughout the course students will learn about benefiting from natural light, orientation and landscape design even more. Emphasizing the application of ordering concepts, and aspects and determinants of form and space. An individual design process is developed by the student.

COURSE CONTENT

Week	Hour	Date	Topic
1	2	6-10/2/2022	Orientation
2	2	13-17/2/2022	Introduction to the Building types
3	2	20-24/2/2022	Standards and Functional studies
4	2	27/2-3/3/2022	Preparing the Site Analysis
5	2	6-10/3/2022	Concepts and Ideas production
6	2	27-31/3/2022	Developing the models
7	2	3-7/4/2022	Starting the plans
8	2	10-14/4/2022	Midterm Exam
9	2	17-21/4/2022	Working on Sections and Elevations
10	2	24-28/4/2022	Developing the overall form and functional problems
11	2	8-12/5/2022	Practicing Presentation techniques
12	2	15-19/5/2022	Working on Architectural Details
13	2	22-26/5/2022	Working on Construction and Technical Details
14	2	29/5-2/6/2022	Adding the final touches and Preapring for the finals

15	2	5-9/6/2022	Final Exam
16	2	12-16/6/2022	Final Exam

COURSE/STUDENT LEARNING OUTCOMES

1	Students will be able to produce accurate architectural drawings.
2	Students will be able to solve functional problems and several technical issues.
3	Students will be able to produce architectual compositions with at least primitive aesthetic values.
4	Students will be able to defend and justify their design desicions and discuss options logically.

COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES

(Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)

	Program Learning Outcomes	**Cont.**
1	Apply problem-solving skills in the architectural context.	A
2	Demonstrate knowledge of architectural history, theory, and practice in solving architectural design problems.	I
3	Utilize freehand drawing, architectural graphics, and model building skills in solving architectural design problems.	A
4	Utilize the computer as a tool in a wide range of documentation and presentation applications, using CAD, 3-D visualization and rendering, electronic image composition and editing software.	
5	Apply knowledge of mathematics, science, engineering and technology in solving architectural design problems.	I
6	Develop designs that meet desired needs within realistic economic, social, political, and cultural constraints.	I
7	Develop designs that fulfill the environmental, health & safety, and sustainability considerations.	P
8	Demonstrate team-working skills and show the ability to work collaboratively with various design teams involved in the building industry, and collaborate and negotiate with clients.	I
9	Demonstrate the necessary knowledge for applying laws, codes, regulations, standards and practices in relation to building construction systems.	
10	Show their ideas through high quality drawing skills and artistic sense.	I
11	Utilize their skills to address professional and ethical responsibilities, diversity and commitment to the work field.	
12	Suggest solutions and techniques for engaging in life-long learning and knowledge about contemporary issues.	I

Prerequisites (Course Reading List and References):	Architectural Design I Theory of Architecture I Art and Architecture
Student's obligation (Special Requirements):	Students are obliged to attend, since every lecture is a classwork. There are also weekly homework assignments.

Weekly Laboratory/Practice Plan:

Week	**Hour**	**Date**	**Topics**
1	1	6-10/2/2022	Orientation
2	1	13-17/2/2022	Similar Examples Analysis Presentations
3	1	20-24/2/2022	Standards and Regulations
4	1	27/2-3/3/2022	Site Analysis
5	1	6-10/3/2022	Concepts and ideas and Compositions (Concept Submission)
6	1	27-31/3/2022	Daily Sketch
7	1	3-7/4/2022	Working on Models
8	1	10-14/4/2022	Developing the Plans

	9	1	17-21/4/2022	Developing Sections and Elevations (Prelim Submission)
	10	1	24-28/4/2022	Solving Functional Problems
	11	1	8-12/5/2022	Developing the architectural form
	12	1	15-19/5/2022	Isometrics and Perspective Drawings
	13	1	22-26/5/2022	Presentation practices (Prefinal Submission)
	14	1	29/5-2/6/2022	Adding Architectuaral Details
	15	1	5-9/6/2022	Construction Details
	16	1	12-16/6/2022	Finalizing (Final Submission)

Course Book/Textbook:	The Architects' Handbook, Quentin Pickard. The Architect's Data, Ernst Nuefert. Time Saver Standards, Joseph De Chiara. The Metric Handbook, David Adler
Other Course Materials/References:	The theoretical courses can help adding more information and blending with the design course. Architectural Magazines and Websites can provide good information on Projects.
Teaching Methods (Forms of Teaching):	Lectures, Practical sessions, Exercises, Presentation, Project, Assignments, , ,

COURSE EVALUATION CRITERIA

Method	Quantity	Percentage (%)
Homework	1	10
Presentation	1	5
Practical Exam	2	5
Submissions	2	10
Classworks	1	15
Final Exam	1	40
Total		**100**

Examinations: True-False, Multiple Choices, Short Answers, , ,

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD

Activities	Quantity	Workload Hours for 1 quantity*	Total Workload
Theoretical Hours	16	2	32
Practical Hours	16	10	80
Final Exam	1	50	50
Homework	1	20	20
Presentation	1	40	40
Practical Exam	2	30	60
Submissions	2		0
Classworks	1		0
Total Workload			**282**
ECTS Credit (Total workload/25)			**11.28**

Peer review

Signature:	Signature:	Signature:
Name:	Name:	Name:

Lecturer	Head of Department	Dean