

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF ENGINEERING
Department of ARCHITECTURE,
2021-2022 Fall
Course Information for ARCH 311 ARCHITECTURAL DESIGN III

Course Name:	ARCHITECTURAL DESIGN III				
Code	Regular Semester	Theoretical	Practical	Credits	ECTS
ARCH 311	5	2	10	7	10
Name of Lecturer(s)- Academic Title:	Azad Ahmed - MSc Nawaz Dabbagh - assistant lecturer				
Teaching Assistant:	Hema Hewa & Tara Sami				
Course Language:	English				
Course Type:	Main				
Office Hours	09:00 am - 04:00 pm				
Contact Email:	azad.ahmed@tiu.edu.iq barzanchiazad@gmail.com nawaz.dabbagh@tiu.edu.iq Tel:07504452471 07728000008				
Teacher's academic profile:	graduating in Technical university of Winne,MBA in architect design. MSc. TU Delft				
Course Objectives:	Be able to apply creative problem solving skills to architectural problem solving. Demonstrate knowledge of architectural history, theory, and practice in the solution of architectural design problems in a global society. Be able to utilize freehand drawing, architectural graphics, and model building skills in the solution of design problems. Be able to utilize the computer as a tool in a wide range of documentation and presentation applications, using CADD, 3-D visualization and rendering, electronic image composition and editing software. The ability to recognize the dialectic relationship between people and the built environment in a region and apply principles of sustainable design.The ability to work collaboratively with various design teams involved in the building industry, and collaborate and negotiate with clients and consultants.				
Course Description (Course overview):	This course provides the student more information about the design principles so it helps the student to learn how to make plans for a big project and in this way the student faces problems of design in plans, elevations, sections , site ,isometric and perspective...etc. and learn how to solve those problem. Also teaching the student how to use steel structure and which buildings should be designed with steel and others with concrete, so it allows the student to do a comprehensive design so in the final of the course the student will design a complete project ,learn how to think as a designer and how to follow an architectural style to have a really good design project.				

COURSE CONTENT

Week	Hour	Date	Topic
1	2	4-7/10/2021	Introduction to Project, data collection
2	2	10-14/10/2021	Introduction to Project, data collection Site analysis
3	2	17-21/10/2021	Site visit and Submission of Site Analysis
4	2	24-28/10/2021	Introduction to Program and Reference Analysis and Submission of Program and Reference Analysis
5	2	31/10-4/11/2021	Introduction to concept, criticizing and enhancing of concept
6	2	7-11/11/2021	Submission of Concept
7	2	14-18/11/2021	Midterm Exam
8	2	21-25/11/2021	Midterm Exam
9	2	28/11-2/12/2021	Zoning Diagrams & Sketching
10	2	5-9/12/2021	Plans
11	2	12-16/12/2021	Plans and Facade
12	2	19-23/12/2021	Elevations and Sections- Mass Model

13	2	26-30/12/2021	Prelim Submission
14	2	2-5/1/2022	Criticizing and enhancing, Pre final presentation, General Notes
15	2	9-13/1/2022	Final Exam
16	2	16-20/1/2022	Final Exam

COURSE/STUDENT LEARNING OUTCOMES

- 1 Be able to apply creative problem solving skills to architectural problem solving
- 2 Be able to utilize freehand drawing, architectural graphics, and model building skills in the solution of design problems
- 3 Be able to utilize the computer as a tool in a wide range of documentation and presentation applications, using CADD, 3-D visualization and rendering, electronic image composition and editing software
- 4 The ability to recognize the dialectic relationship between people and the built environment in a region and apply principles of sustainable design.
- 5 The ability to work collaboratively with various design teams involved in the building industry, and collaborate and negotiate with clients and consultants.

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.	A
5	Apply knowledge of mathematics, science, engineering and technology in solving architectural design problems.	P
6	Develop designs that meet desired needs within realistic economic, social, political, and cultural constraints.	P
7	Develop designs that fulfill the environmental, health & safety, and sustainability considerations.	A
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.	P
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.	
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.	

Prerequisites (Course Reading List and References):

1- Time-Saver Standards for ARCHITECTURAL DESIGN DATA. The Reference of Architectural Fundamentals Donald Watson ,Michael J. Crosbie ,John Hancock Callender . 1999. McGraw-Hill books 2- Time-Saver Standards for Urban Design. Donald Watson, Alan Platos& Robert Shipley.2003, McGraw-Hill books 3- Time-Saver Standards for Interior design. 4- Architectural detailing, Function, constructability and aesthetics. Edward Allen, 1995. John Wiley,& Sons inc. 5- Hinric Anjel , Structural Systems. 1969. 6- Structure and Architecture Angus J. Macdonald Department of Architecture, University of Edinburgh. Second edition. Architectural Press 2001 7- C G Schierle, Architectural Structure. University of southern California.2006. 8- VICTOR E. SAOUMA. STUCTURAL CONCEPTS AND SYSTEMS FOR ARCHITECTS . SPRING 1997. 9- Gyula Sebestyen and Chris Pollington. New Architecture and Technology .OXFORD AMSTERDAM Architectural Press. 2003 10- Chris Abel. ARCHITECTURE, TECHNOLOGY AND PROCESS Architectural Press .2004

Student's obligation (Special Requirements):

Computer software (AutoCAD, 3Ds MAX, Photoshop, Sketch-up...), Drawing Tools, Drawing Sheets.

Weekly Laboratory/Practice Plan:

Week	Hour	Date	Topics
1	1	4-7/10/2021	Introduction to Project, data collection
2	1	10-14/10/2021	Introduction to Project, data collection Site analysis
3	1	17-21/10/2021	Site visit and Submission of Site Analysis
4	1	24-28/10/2021	Introduction to Program and Reference Analysis and Submission of Program and Reference Analysis

	5	1	31/10-4/11/2021	Introduction to concept, criticizing and enhancing of concept	
	6	1	7-11/11/2021	Submission of Concept	
	7	1	14-18/11/2021	Site Design and Mass Configuration	
	8	1	21-25/11/2021	Midterm Exam	
	9	1	28/11-2/12/2021	Zoning Diagrams & Sketching	
	10	1	5-9/12/2021	Plans	
	11	1	12-16/12/2021	Plans and Facade	
	12	1	19-23/12/2021	Elevations and Sections- Mass Model	
	13	1	26-30/12/2021	Prelim Submission	
	14	1	2-5/1/2022	Criticizing and enhancing, Pre final presentation, General Notes	
	15	1	9-13/1/2022	Prefinal Submission	
	16	1	16-20/1/2022	Final Exam	
Course Book/Textbook:	1- Time-Saver Standards for ARCHITECTURAL DESIGN DATA. The Reference of Architectural Fundamentals Donald Watson ,Michael J. Crosbie ,John Hancock Callender . 1999. McGraw-Hill books 2- Time-Saver Standards for Urban Design. Donald Watson, Alan Platos& Robert Shipley.2003, McGraw-Hill books 3- Time-Saver Standards for Interior design. 4- Architectural detailing, Function, constructability and aesthetics. Edward Allen, 1995. John Wiley,& Sons inc. 5- Hinric Anjel , Structural Systems. 1969. 6- Structure and Architecture Angus J. Macdonald Department of Architecture, University of Edinburgh. Second edition. Architectural Press 2001 7- C G Schierle, Architectural Structure. University of southern California.2006. 8- VICTOR E. SAOUMA. STUCTURAL CONCEPTS AND SYSTEMS FOR ARCHITECTS . SPRING 1997. 9- Gyula Sebestyen and Chris Pollington. New Architecture and Technology .OXFORD AMSTERDAM Architectural Press. 2003 10- Chris Abel. ARCHITECTURE, TECHNOLOGY AND PROCESS Architectural Press .2004				
Other Course Materials/References:	Site visit				
Teaching Methods (Forms of Teaching):	Lectures, Presentation, Project, Assignments, , ,				
COURSE EVALUATION CRITERIA					
Method			Quantity	Percentage (%)	
Workshop			1	10	
Quiz			1	5	
Homework			1	5	
Project			1	15	
Midterm Exam			1	20	
Presentation			1	5	
Final Exam			1	40	
Total				100	
Examinations: Fill in the Blanks, 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	16	16

Workshop	1	16	16
Quiz	1	16	16
Homework	1	16	16
Project	1	16	16
Midterm Exam	1	16	16
Presentation	1	16	16
Total Workload			224
ECTS Credit (Total workload/25)			8.96

Peer review

Signature:

Name:

Lecturer

Signature:

Name:

Head of Department

Signature:

Name:

Dean