# TISHK INTERNATIONAL UNIVERSITY FACULTY OF ENGINEERING Department of ARCHITECTURE, 2021-2022 Fall

# Course Information for ARCH 212 BUILDING CONSTRUCTION TECHNOLOGY

Code F	Regular Semester	Theoretical	Practical	Credits	ECTS			
ARCH 212	3	2	2	3	6			
Name of Lecturer(s)- Academic Title:	er(s)- Carol Kharbosh - MSc							
Teaching Assistant:	Ms. Lana & Ms. Jenan							
Course Language:	English							
Course Type:	Main							
Office Hours	Monday 10.00-12.00							
Contact Email:	carol.kharbosh@tiu.edu.i	7						
	Tel:+9647504148626							
	Assistant Lecturer at the Department of Architectural Engineering BSc in Architectural Engineering - Salahaddin University Erbil (2017) MSc in Architecture - Specializing in Architectural and Interior Design - Budapest University of Technology and Economics (2020)							
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Course Objectives:	Building Construction is a used in the construction puthe main components of the Construction course have information for the practic where the students will be learned during the Theore and Techniques used in E& Block), Floors and Slab Windows), Finishing Matestudents will be asked to about the available mater	process of any Building the building and their of two parts, the first part will be provided asked to design and etical class. Topics of the building Construction part (Concrete and Reingerials, and Connection visit material stores and stores and stores are suited.	g. Building Constructions. The connections. The court is Theoretical cd, and the second draw in the Draw this course include process which inclead Concrete), Techniques). During Construction si	uction classes classes of Build lass where all the part is Practical ing studios what a Components, lude (Masonry Opening (Dooring the Course tes to have a control of Build (Dooring the Course tes to have a control of Build (Dooring the Course tes to have a control of Build (Dooring the Course tes to have a control of Build (Dooring the Course tes to have a control of Build (Dooring the Course tes to have a control of Build (Dooring the Course tes to have a control of Build (Dooring the Course tes to have a control of Build (Dooring the Course tes to have a control of Build (Dooring the Course tes to have a control of Build (Build	will focus ding he requir al class at they ha Material walls (Bri rs and			

	COURSE CONTENT							
Week	Hour	Date	Торіс					
1	2	4-7/10/2021	Introduction to building Construction 1					
2	2	10-14/10/2021	Masonry Wall (Brick)					
3	2	17-21/10/2021	Masonry Wall (Block & Stone)					
4	2	24-28/10/2021	Concrete & Reinforced Concrete					
5	2	31/10-4/11/2021	Doors (Types and Properties)					
6	2	7-11/11/2021	Windows (Types and Properties)					
7	2	14-18/11/2021	Midterm Exam					
8	2	21-25/11/2021	Midterm Exam					
9	2	28/11-2/12/2021	Interior Finishing (Types and Properties)					
10	2	5-9/12/2021	Exterior Finishing (Types and Properties)					
11	2	12-16/12/2021	Connection Details					
12	2	19-23/12/2021	Connection Details					
13	2	26-30/12/2021	Project (Consultation)					

14	2	2-5/1/2022	Project (Consultation)
15	2	9-13/1/2022	Final Exam
16	2	16-20/1/2022	Final Exam

### **COURSE/STUDENT LEARNING OUTCOMES**

- 1 Understanding the engineering behavior of different types of building materials.
- 2 Professionally prepare Construction Drawings.
- 3 Have an idea about the available materials in the local construction market.
- Building construction classes will help students master the control of their realization process.

### **COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES**

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

	(Blank: no contribution, i. macadotton, i. i relection, i. ravaneca)	
	Program Learning Outcomes	Cont.
1	Apply problem-solving skills in the architectural context.	Р
2	Demonstrate knowledge of architectural history, theory, and practice in solving architectural design problems.	1
3	Utilize freehand drawing, architectural graphics, and model building skills in solving architectural design problems.	1
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.	1
5	Apply knowledge of mathematics, science, engineering and technology in solving architectural design problems.	Р
6	Develop designs that meet desired needs within realistic economic, social, political, and cultural constraints.	1
7	Develop designs that fulfill the environmental, health & safety, and sustainability considerations.	Α
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.	Α
9	Demonstrate the necessary knowledge for applying laws, codes, regulations, standards and practices in relation to building construction systems.	Α
10	Show their ideas through high quality drawing skills and artistic sense.	1
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	Р

contemporary issues.

Prerequisites (Course Francis D. K. Ching - Building construction illustrated - 5th Edition - John Wiley & Sons Reading List and (2019) B.C. Punmia; Ashok Kumar Jain; Arun Kumar Jain, Firewall Media - Building References): construction (2005)

Student's obligation The attendance of students in the lectures is mandatory. He / she is required to continuously

<u> </u>	I he attendance of students in the lectures is mandatory. He / she is required to continuously follow the lectures, submits homework and assignments.			
Weekly	Week	Hour	Date	Topics
Laboratory/Practice Plan:	1	2	4-7/10/2021	Introduction to building Construction1
	2	2	10-14/10/2021	Masonry Wall (Brick)
	3	2	17-21/10/2021	Masonry Wall (Block & Stone)
	4	2	24-28/10/2021	Concrete & Reinforced Concrete
	5	2	31/10-4/11/2021	Doors (Types and Properties)
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	13	2	26-30/12/2021	Project (Consultation)	
	14	2	2-5/1/2022	Project (Consultation)	
	15	2	9-13/1/2022	Final Exam	
	16	2	16-20/1/2022	Final Exam	
Course Book/Textbook:	Francis D. K. Ching - Building construction illustrated - 5th Edition - John Wiley & Sons (2019) Arthur Lyons - Materials for Architects and Builders-Routledge (2014) B.C. Punmia; Ashok Kumar Jain; Arun Kumar Jain, Firewall Media - Building construction (2005) David Hancock - Brick Bonding (The Rules of Bonding and 100 + Advanced Craft Questions with Answers) - Macmillan Education UK (1990)				
Other Course Materials/References:					
Teaching Methods (Forms of Teaching):	Lecture	s, Pra	ctical sessions, Projec	et, , ,	

of Teaching): Lectures, Practical sessions, Project, , ,

COURSE EVALUATION CRITERIA

COURSE EVALUATION	CRITERIA	
Method	Quantity	Percentage (%)
Homework	1	15
Project	1	20
Midterm Exam	1	15
Classwork	1	10
Final Exam	1	40
Total		100

**Examinations:** Essay Questions, Short Answers, Drawing, ,

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	2	16			
Final Exam	1	15	15			
Homework	1	1	1			
Project	1	60	60			
Midterm Exam	1	20	20			
Classwork	1	3	3			
Total Workload			147			
ECTS Credit (Total workload/25)			5.88			

## Peer review

Signature:Signature:Signature:Name:Name:Name:LecturerHead of DepartmentDean