TISHK INTERNATIONAL UNIVERSITY FACULTY OF ENGINEERING Department of ARCHITECTURE, 2021-2022 Spring Course Information for ARCH 222 BUILDING CONSTRUCTION TECHNOLOGY II											
Course Name: BUILDING CONSTRUCTION TECHNOLOGY II											
(	Code	F	Regular	Semester	Theoretical	Practical	Credits	ECTS			
ARCH 222			U	4	2	2	3	6			
N	ame of Aca	Lecturer(s)- demic Title:	Carol Kharbosh - MSc								
1	<b>Feachin</b>	g Assistant:	Dania I	drees & Fatimah C	mar						
	Course	e Language:	English								
	С	ourse Type:	Main								
	(	Office Hours	2 hrs								
	Co	ntact Email:	carol.kharbosh@tiu.edu.iq								
			Tel:+9647504148626								
Teacher's academic profile:			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)								
	0	Description	used in the construction process of any Building. Building Construction classes will focus on the main components of the building and their connections. The classes of Building Construction course have two parts, the first part is Theoretical class where all the required information for the practical part will be provided, and the second part is Practical class where the students will be asked to design and draw in the Drawing studios what they have learned during the Theoretical class. Topics of this course include Components, Materials and Techniques used in Building Construction process which include (Masonry walls (Brick & Block), Floors and Slabs (Concrete and Reinforced Concrete), Opening (Doors and Windows), Finishing Materials, and Connection Techniques). During the Course the students will be asked to visit material stores and Construction sites to have a clear idea about the available materials and techniques in the Local Market.								
(Course Description (Course overview):			construction asserting more on wood, concrete, unit masonry, and light steel construction. Laboratory projects may include working drawings interpretation, sketching construction details, or field trips to construction sites and fabricant plants. Designed primarily as the initial materials and methods course for architectural transfer students.								
Week	Hour	Date		Торіс							
1	1	6-10/2/2	022	Introduction							
2	1	13-17/2/2	2022	Arches							
•	4	00.04/0/2	000								
3	1	20-24/2/2	2022	vauits & Domes							
4	I	21/2-3/3/2	2022	Skeleton Frame							
5	1	6-10/3/2	ດວວ	Slabs							
6	1	27-31/3/2	022	Dialos Portal Frame							
Ū		21-01/0/2									
7	1	3-7/4/20	)22	Truss							
8	1	10-14/4/2022		Midterm Exam							
-											
9	1	17-21/4/2	2022	22 Drainage system							
10	1	24-28/4/2	2022	22 Foundation system							
11	1	8-12/5/2	022	Connection Details 1							

12	1	1 15-19/5/2022 Connection Details 2									
13	1	22-26/5/2022 DPC									
14	1	1 29/5-2/6/2022 Cladding System									
15	1	1 5-9/6/2022 Final Exam									
16	1	1 12-16/6/2022 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.										
4	Building c	onstructio	on class	es will l	help students master	the control of their realization process.					
		(F	COU Blank · r	RSE'S	CONTRIBUTION TO	PROGRAM OUTCOMES					
	Program	Learning		mes		n, r. r. roleolent, A. Auvanceu j	Cont.				
1	Apply pro	blem-solv	ing skill	s in the	architectural context	i.	Р				
2	Demonstrate knowledge of architectural history, theory, and practice in solving architectural design problems						I				
3	Utilize fre	Utilize freehand drawing, architectural graphics, and model building skills in solving architectural design									
4	Utilize the computer as a tool in a wide range of documentation and presentation applications, using										
5	Apply knowledge of mathematics, science, engineering and technology in solving architectural design problems.										
6	Develop designs that meet desired needs within realistic economic, social, political, and cultural constraints.										
7	Develop designs that fulfill the environmental, health & safety, and sustainability considerations.										
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.										
9	Demonstrate the necessary knowledge for applying laws, codes, regulations, standards and practices in relation to building construction systems.										
10	Show the	ir ideas th	rough h	igh qua	ality drawing skills an	d artistic sense.	Р				
11	Utilize the work field	Utilize their skills to address professional and ethical responsibilities, diversity and commitment to the work field.									
12	Suggest s contempo	Suggest solutions and techniques for engaging in life-long learning and knowledge about contemporary issues.									
Pre	erequisites Reading Refe	(Course List and erences):	Francis Buildin constru	BD.K.C g Struc action (2	hing-Building constru tures Illustrated: Patt 2005) Edward Allen &	uction illustrated-5th Edition(2019) Francis D.K.Chi erns, Systems,and Design(2013) B.C.Punmia- Bu & Joseph Iano-The Architect's Studio Companion	ing- ilding				
Student's obligation The attendance of students in the lectures will have extra credit. He / she is required to (Special Requirements): continuously follow the lectures, submits Classwork Homework and Assignments											
		Weekly	Week	Hour	Date	Topics					
Laboratory/Practice Plan:		1	3	6-10/2/2022	Introduction						
			2	3	13-17/2/2022	Arches					
			3	3	20-24/2/2022	Vaults & Domes					
			4	3	27/2-3/3/2022	Skeleton Frame					
			F	0	6 40/0/0000	Claba					
			5	ა ი	0-10/3/2022	Siabs Portal Frama					
			Ö	3	21-31/3/2022						
			7	3	3-7/4/2022	Truss					

	8	3	10-14/4/2022	Midterm Exam				
	q	3	17-21/4/2022	Drainage System				
	10	3	24-28/4/2022	Foundation System				
	10	Ũ	21 201 11 2022	i culturi cyclom				
	11	3	8-12/5/2022	Connection Details 1				
	12	3	15-19/5/2022	Connection Details 2				
	13	3	22-26/5/2022	DPC				
	14	3	29/5-2/6/2022	Cladding System				
	45	•	5 0 10 100 00					
	15	3	5-9/6/2022	Final Exam				
	10	3	12-10/0/2022	Final Exam				
Course Book/Textbook: Francis D. K. Ching - Building construction illustrated - 5th Edition - John Wiley & Sons (2019). Francis D. K. Ching - Building Structures Illustrated: Patterns, Systems, and Design-Wiley (2013). B.C. Punmia; Ashok Kumar Jain; Arun Kumar Jain, Firewall Media - Building construction (2005). Edward Allen & Joseph Iano - The Architect's Studio Companion_Rules of Thumb for Preliminary DesignWiley (2017). Edward Allen, Joseph Iano - Fundamentals Of Building Construction_Materials And Methods, 7th EditionJohn Wiley & Sons (2019).								
Other Course Materials/References:	https://www.wicona.com/en/int/							
Teaching Methods (Forms of Teaching):	feaching Methods (Forms of Teaching):							
COURSE EVALUATION CRITERIA								
Method				Quantity	γ Ρε	ercentage (%)		
Broject				8		2 15		
Midtorm Exam				1		15		
				7		2		
Final Exam				1		40		
			Total	, i		100		
Examinations: Short Answe	ers, Drav	ving, Ca	alculation,					
Extra Notes:								
	ECTS	(ALLO	CATED BASED ON	I STUDENT) WORKLOA	Norkland			
Activities				Quantity	Hours for 1 quantity*	Total Workload		
Theoretical Hours				16	2	32		
Practical Hours				16	2	16		
Final Exam				1	24	24		
Homework				8	3	24		
Project				1	30	30		
Midterm Exam				1	12	12		
Classwork(s)				7	3	21		
Total Workload						159		
ECTS Credit (Total worklo	ad/25)					6.36		

Peer review

Signature:	Signature:	Signature:
Name:	Name:	Name:
Lecturer	Head of Department	Dean