Course Title		Code	Semester	Hour (T+P)	Credit	ECTS
Material and Technology II		ARCH206	4 (Spring)	2 + 2	3	4
Pre-requisites		-				
Language of Instruction		English				
Course Type (Required / elective)		Required				
Course Coordinator		-				
Instructor /e-mail		Assist. Prof. Dr. H. Nur KIZILYAPRAK nur.kizilyaprak@marmara.edu.tr				
Assistants		Res. Assist. Rumeysa Temel				
Learning Outcomes	 elements, construction and Introducing the classificat elements (floor systems, was roof systems) used in reinformation introducing of component circulation systems, wall such concrete skeleton building such introducing the materials, construction of building elements. Ability to understand and a language concrete building systems systems, windows and door systems, such as floor systems. 	Is, workmanship, vehicle inputs and construction stages in the elements by observing the production of full-size models. d analyze buildings as a system. mation about functional building elements used in reinforced ms, such as floor systems, vertical circulation systems, wall				
doors, roof systems. 4. Ability to draw typical area details of functional building elements used is concrete building systems, such as floor systems, vertical circulation systems, windows and doors, roof systems.						
Course Content	 the basic material and tech the classifications, design of systems, vertical circulation in reinforced concrete skele components and material systems, wall systems, will systems. 	criteria and cons n systems, wall sy eton building syste Is of building e	truction me stems, windo ems. elements (fl	ows and doors	s, roof syst	tems) used

Assessment Criteria	Assessment Components		
	Mid-term	40 %	
	Final Exam	60 %	
	TOTAL	100 %	
Midterm grade:			

Midterm grade: -Final grade: 50 Course success: 50

WEEKLY TOP	ICS AND PREPARATIONS	
Weeks	Topics	Initial Studies
Week 1 16.02.2024	Introduction, explanation of the syllabus, distribution of the plans for the studio works	
Week 2 23.02.2024	Lecture: RC Floor systems - RC floor classification - Basic components and materials for RC floors	Assignment: Draw of floor plans (structural system only), Scale:1/50
Week 3 01.03.2024	Short Lecture: 1/50 drawing techniques Studio Work: Drawing of RC floor system (1 plan, 2 sections) - Waffle floor - Ribbed / Hallow Brick floor	Assignment: Structural system model of the given building, Scale: 1/50
Week 4 08.03.2024	Studio Work: Drawing of detail of RC floor system - Intermediate floor detail - Basement floor detail	Assignment: Floor systems of the given building, -Model -Drawings (Plan, Sections)
Week 5 15.03.2024	Lecture: RC Stair systems - General information about stairs - Calculation method - RC stair classification - Basic components and materials for RC stairs	Assignment: Calculation of stair system
Week 6 22.03.2024	Studio Work: Draw of stair system in detail, Scale:1/50 - 3 plans (Basement floor, intermediate floor, top floor) - 2 sections	Assignment: Stair system model of the given building, Scale: 1/50
Week 7 29.03.2024	Studio Work: Draw of stair system in detail, Scale:1/50 - 3 plans (Basement floor, intermediate floor, top floor) - 2 sections	
Week 8 01.04.2024 -	Midterm exam SUBMISSION OF FLOOR & STAIR SYSTEMS - Model	
07.04.2024 Week 9 12.04.2024	- Drawings (Plans, Sections) RAMADAN EID	
Week 10 19.04.2024	Lecture: Wall systems & Openings - External walls - Internal walls	
Week 11 26.04.2024	Lecture: Wall systems & Openings - Windows / Doors	
Week 12 03.05.2024	Studio Work: Wall systems & Openings	Assignment: Research on walls, windows / doors details from firms Assignment: Wall and window / doors system model of the given building, Scale: 1/50
Week 13	Lecture: Roof systems	

10.05.2024	- General information about roofs		
	- RC roof classification		
	- Terrace roofs		
Week 14	Lecture: Roof systems		
17.05.2024	 General information about roofs 		
	- RC roof classification		
	- Terrace roofs		
Week 15	Studio Work: Roof systems - Planning of rain water		
24.05.2024	drainage		
Week 16	Studio Work: Roof systems - Detail of the terrace roof		
31.05.2024	system		
FİNAL	Final Exam		
03.06.2024	SUBMISSION OF WALL, WINDOW & DOOR AND ROOF		
-	SYSTEMS		
14.06.2024	- Model		
	- Drawings (Plans, Sections)		

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ECTS / WORKING HOUR TABLE				
Activities	Number of Weeks	Duration (Hour)	Working Hours	
Duration of the Course (Including Exams: 14 x Total Weekly Course Hour)	14	4	56	
Extracurricular Working Hour (Preparatory Work, Review,Internet studies etc.)	15	2	30	
Midterm exam	12	1	12	
Homeworks and Presentations	1	4	4	
Final Exam	1	4	4	
Working Hours in Total			106	
Working Hours in Total / 30			4.24	
ECTS Credit of the Course			4	