

Course Code		Course Name	Year/Semester	Theory	Practice	Credits	ECTS	
	Material and Construction Techn Interior Space I	ologies in	2024/2025 Spring	1	2	2	3	
Level of Course:	Undergraduate							
Course Type:	Core Course							
Language of Instruction: Course time:	English Tuesday 9.30-12.30 / Tuesday 13.30-16.30							
Course classroom:	B2-08 (STD S1)							
Mode of Delivery:	Class teaching, presentation, d	lrawing assignment	S					
Prerequisites and Co-requisites:								
Course Coordinator:	Lec. Kadir Emre Bakır							
Name of Lecturer(s):	Lec. Dr. Arzu Çakmak, Lec. Canan Bedur, Lec. Kadir Emre Bakır							
Course Teaching Assistant:	Res. Asst. Müge Develier							
Course Objectives:	The aim of the introductive module is providing students with an early knowledge of materials and construction elements, in order to easily enhance a more detailed study in the next module. To introduce basic materials used in construction, basic components of a building and method of construction and representation of the same.							
Course Description:	This course directs the first of two modules that introduces structural components and materials. Students are expected to be familiarized with technical and technological sides of a construction phase. The course focuses on the main components of a building, its functions and technological requirements. Weekly class activities are scheduled as a complementary evaluation.							
Learning Outcomes:	 Upon successful completion of the course, students will be able to: Become aware of the environmental impact, reuse and transportation of construction waste materials. Have knowledge about basic structure, construction methods and structural systems. Have knowledge about interior systems, construction, assembly and installation methods. Have knowledge of monitoring and auditing building control systems (energy and security management). 							
Language:	The classes and discussions will be in English. Developing your verbal language skills will be very important in acquiring the disciplinary terminology as well as daily communication at the class.							



Text Books: - Merritt, F., S., Ricketts, J., T., 2000, *Building Design And Construction Handbook,* Sixth Edition McGRAW-HILL.

- Greeno, R., Chudley, R., 2014, Building Construction Handbook, 10th Ed., Routledge.

-Meta, M.; Scarborough, W.; Armpriest, D., 2009, *Building Construction: Principles Materials and Systems*, 2nd Ed., Pearson.

- Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of Construction,

- Moxley, R. Mitchell's, Elementary Building Construction.

- Rangwala, S.C., Building Construction
- Sushil Kumar, T.B. of Building Construction

Recommended Text - Foster, J.S.; Greeno, R., 2007, Structure and Fabric, part 1; 7th Ed.Pearson

- Books: Allen, E., 2005, How Buildings Work, the natural order of Architecture, 3rd Ed., Oxford University Press
 - Szokolay , S., Introduction to Architectural Science, the basis of sustainable design, Architectural Press
 - Salvadori, M. Why buildings stand up. The strength of architecture, W.W. Norton&Company, London, NY

Planned Learning Activities Learning/Teaching Method: The expected learning outcomes for the course will be assessed through: and Teaching Method: Presentations, drawing assignments, midterm exam and final submission.

Class Participation: Regular attendance of all enrolled classes is expected. Do not be late to the class. Attendance will be taken through your signature within the first 15 min.; if you come later you will be considered half-attended. At the end of the Semester, your attendance will be reported on UBS system. Attendance is compulsory and in case of absenteeism of more than 20% for the practice and %30 for the theory, the system will automatically grade you "FX". If you miss a class, it is your responsibility to 'make up' all work, including items discussed in class. Class contribution will be measured in terms of quality not quantity

Academic integrity & plagiarism: Academic integrity is the pursuit of scholarly activity based on the values of: honesty, trust, fairness, respect and responsibility. Practicing academic integrity means never <u>plagiarizing</u> or cheating, never misrepresenting yourself, never falsifying information, never deceiving or compromising the work of others. Basically this means, either <u>intentionally</u> or <u>unintentionally</u>, using the words or ideas of someone else without giving credit, it's strictly forbidden.

Specific Rules:

- 1. Be punctual. Punctuality is a sign of respect toward yourself and the others.
- 2. Show respect for all the people and property around you.
- 3. Be responsible for your actions and meet all expectations.
- 4. Follow directions the first time they are given.
- 5. No candies or gums are allowed in the classroom during classes.
- 6. Students should raise their hand to signal a question or to answer a question.
- 7. Students should use the Internet at school for academic purposes only.
- 8. It is forbidden to record classes with any type of device.

9. Each student has a different learning style. Please create your own strategy to learn the topics mentioned in Syllabus.

10. If you request, the instructor may repeat the lecture in the class or in the office and explain the subjects that you do not understand.

11. Students will be prepared for market conditions and their professional life during education period. Everyone will be treated equally and fairly. Please do not expect a privileged or special treatment from your instructor.



12. Please send your requests about the course to the instructor without delay. When the training process is completed, it is not possible to fulfill any demand.

Communication:

If you have any questions about the syllabus, your responsibilities in the course and assessment procedures please ask your instructor without any delay.

Students are encouraged to visit the professor during their Office Hours. If you cannot make it to announced office hours, please make individual arrangements via e-mail. However, do not expect the professor and the research assistant to respond at length via e-mail to questions of content, the definition of terms, grading questions, etc. If you have a question that requires a substantive response, please set up an appointment to speak with us.

Course Contents*: (Weekly Lecture Plan)

Date	Week	Chapter Topic Take-home exercise		
04.02.2025	1	Introduction to the Course	N/A	
11.02.2025	2	Introduction to the Building Types and Building Materials	Exercises related to the subject will be announced in the class.	
18.02.2025	3	Building Sub- System: Structural Systems-Parts of Buildings from Foundation to the Roof	Exercises related to the subject will be announced in the class.	
25.02.2025	4	Building Sub- System: Building Element System – External and Internal Wall Systems	Exercises related to the subject will be announced in the class.	
04.03.2025	5	Building Sub- System: Building Element System – External and Internal Wall Systems	Exercises related to the subject will be announced in the class.	
11.03.2025	6	Building Sub- System: Building Element System – External and Internal Wall Systems	Exercises related to the subject will be announced in the class.	
18.03.2025	7	Building Sub- System: Building Element System - Floor Systems	Exercises related to the subject will be announced in the class.	
	8	MIDTERM EXAM		
01.04.2025	9	RAMADAN HOLIDAY		
08.04.2025	10	Group Study Work	Exercises related to the subject will be announced in the class.	
15.04.2025	11	Workshop	Exercises related to the subject will be announced in the class.	

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22.04.2025	12	Building Sub- System: Building Element System - Suspended Ceiling Systems	Exercises related to the subject will be announced in the class.
29.04.2025	13	Building Sub- System: Building Element System -Doors and Windows	Exercises related to the subject will be announced in the class.
06.05.2025	14	Building Sub- System: Building Element System -Vertical Circulation Systems: Ramps, Stairs, Lifts	Exercises related to the subject will be announced in the class.
13.05.2025	15	General Review before Final	
			FINAL SUBMISSION

* PLEASE NOTE: Details of the syllabus and course schedule are subject to minor changes that will be announced in class.

Grading: Research projects and final exam responses will be evaluated for accuracy, thoughtfulness and clarity. Assignments will be evaluated for content, quality of ideas and clarity of presentation (including both writing and graphics). If total assessment grade is lower than 50, student needs to repeat the course.

Assessment Methods and Criteria:	METHODS	EFFECTS	EFFECTS ON GRADING				
	Assignments	20 %	20 %				
	Midterm Exam	30 %	30 %				
	Final Submission	50 %					
ECTS Workload Table : A	CTIVITIES	NUMBER	HOUR	WORKLOAD			
C	ourse Teaching Hours	14	3	42			
As	ssignment(s)	11	1	11			
Se	elf-study for Midterm Exam	1	8	8			
Se	elf-study for Final Submission	1	14	14			
Т	otal Workload	0 0		75			
To	otal workload/25			75/25			
E	CTS			3			

GRADING AND EVALUATION

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The students' progress will be evaluated throughout the semester. Students' grades point **lower than 50** will be considered as failed.

Grade Scale:

GRADE	MARKS	VALUE	GRADE	MARKS	VALUE
A+			C+	60-64	2.40
А	95-100	4.00	С	55-59	2.20
A-	85-94	3.70	C-	50-54	1.70
B+	80-84	3.30	D+	45-49	1.30
В	75-79	3.00	D	40-44	1.00
B-	65-74	2.70	F	0-39	0.00

<u>Course outline and evaluation criteria can be changed according to weekly progress by course instructor. If any change will occur, it will announce to students via e-mail.</u>