ANTALYA BİLİM ÜNİVERSİTESİ

DEPARTMENT OF INTERIOR ARCHITECTURE AND ENVIRONMENTAL DESIGN

Course Code	Course Name	Year/Semester	Theory	Practice	Credits	ECTS
IAED 2503	Material and Construction Technologies in Interior Space II	2023-2024 / Fall	2	2	3	5

Level of Course: Undergraduate

Course Type: Core Course

Language of Instruction: English

Course time: 13.30-17.30 – Thursday

Course classroom: Studio A

Mode of Delivery: Class Teaching, Assignments, Presentations

Prerequisites and Co-requisites: Prerequisites: IAED 1502
Co-requisites: None

Course Coordinator: Prt. Lec. Begüm SÖYEK ABAY

Name of Lecturer(s): Prt. Lec. Begüm SÖYEK ABAY

Course Teaching Assistant: Hakan BAL

Course Objectives: The aim of the introductive module is providing students materials and construction elements, in order to easily enhance a more detailed study in the next module. Comprehension of the influence of material selection on design. Understanding the principles and standards related to the production, use, and application of building materials and components.

Course Description: Materials are taught in relation to construction technologies and design. Main properties of building materials, partitions, furnitures, circulation elements, ceiling and mezzanine systems are taught through practices.

Learning Outcomes: **Upon successful completion of the course, students will be able to:**

- Acquire building materials knowledge and material application skills.
- Gain technical and interdisciplinary communication skills.
- Gain sustainable design skills.
- Gain skills in transferring knowledge and design of environmental systems.
- Have knowledge about building envelope.

Language: The studio 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:

1- Rosen, H.J., Heineman, T., "Architectural Materials for Construction", McGraw-Hill Inc., NY, 1996.
2- Toydemir, N., Gürdal, E., Tanacan, L., "Yapı Elemanı Tasarımında Malzeme", Literatür Yayınevi, İstanbul, 2000.
3- Bindra, S.P. and Arora, S.P., Building Construction: Planning Techniques and methods of Construction
4- Moxley, R. Mitchell's, Elementary Building Construction.
5- Rangwala, S.C., Building Construction: Materials and types of Construction
6- Francis D. Ching, Building Construction Illustrated

Recommended Text Books:

1- Meta, M.; Scarborough, W.; Armpriest, D., 2009, Building Construction: Principles Materials and Systems, 2nd Ed.,
2- Foster, J.S.; Greeno, R., 2007, Structure and Fabric, part 1; 7th Ed.Pearson
3- Allen,E., 2005, How Buildings Work, the natural order of Architecture, 3rd Ed., Oxford University Press
4- Szokolay, S., Introduction to Architectural Science, the basis of sustainable design, Architectural Press
5- Kocataşkın, F., "Yapı Malzemesi Dersleri", İstanbul Teknik Üniversite Matbaası, Gümüşsuyu, 1973.
6- Salvadori, M. Why buildings stand up. The strength of architecture,W.W. Norton&Company, London, NY
7- Toydemir, N., "Cam Yapı Malzemeleri", Eskişehir: Sakarya Gazetecilik ve Matb. AŞ., 1990.

For the terminology:

Reading Textbooks:

Planned Learning Activities and Teaching Method:

Learning/Teaching Method: The expected learning outcomes for the course will be assessed through: Assignments, a Midterm Exam, a Final Exam and Class discussions and feedback.

Assignments: Students are required to **take quizzes related to the subject of the previous week** throughout the semester.

Class Participation: Regular attendance of all enrolled classes is expected. Do not be late for the class. Attendance will be taken through your signature within the first quarter of the class; if you come later you will be considered absent. At the end of the Semester, your attendance will be reported on UBS. 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. The class contribution will be measured in terms of quality, not quantity. If you need to leave early for whatever reason, you should exercise politeness and notify your professor at the commencement of the session.

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 plagiarizing or cheating, never misrepresenting yourself, never falsifying information, never

deceiving or compromising the work of others. Basically, this means, either intentionally or unintentionally, using the words or ideas of someone else without giving credit, it's strictly forbidden.

Course Textbooks: There is no specific textbook for this course but topics will mainly follow the chapters in the book 'Construction Materials' by Peter Domone and John Illston.

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 hands 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 strategy to learn the topics mentioned in Syllabus.
10. If you request, the instructor may repeat a lecture in the class or the office and explain the subjects that you do not understand.
11. Students will be prepared for market conditions and their professional life during the 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 one of us.

Key Works: In this course lectures and assignments mainly focus on the following course content.

Course Contents*:
(Weekly Lecture Plan)

Date	Week	Chapter Topic	Take-home exercise
05.10.23	**1**	**INTRODUCTION TO THE COURSE** Syllabus, lectures, assignments, evaluation	

		Material Choosing Factors and Criteria	
12.10.23	**2**	**Partition Systems:** Wooden framed fixed partition with single/double wall, Aluminium framed Partition, Dry wall partition systems, Full glass partition with architectural hardware.	Drawing Homework
19.10.23	**3**	**Wall Cladding and Paneling:** Wet and Dry wall cladding in different materials, Wall paneling in different materials.	Drawing Homework
26.10.23	**4**	**Modular furnitures:** Introduction to modular furniture, analyzing the need and criteria for selection, materials used and constructional details.	Drawing Homework
02.11.23	**5**	**Modular Kitchens:** Basics of kitchen furniture. Kitchen triangle. Details of construction of modular kitchen . joinery details etc.	Drawing Homework
09.11.23	**6**	**Modular Residential and commercial furniture units:** details and manufacturing etc	Drawing Homework
16.11.23	**7**	**Vertical circulation elements:** Stairs	Preparation for midterm submission
	8	**MIDTERM EXAM**	
30.11.23	**9**	**Vertical circulation elements:** Stairs	Drawing Homework
07.12.23	**10**	**Ceiling Systems**	Drawing Homework
14.12.23	**11**	**Mezzanine systems**	Drawing Homework
21.12.23	**12**	**Finishing Materials**	Drawing Homework
28.12.23	**13**	**Finishing Materials**	Drawing Homework
04.01.24	**14**	**Conclusion, Question-answer session**	
			FINAL SUBMISSION

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

Grading: Midterm 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).

Assessment Methods and Criteria :

METHODS	EFFECTS ON GRADING
Assignments	30%
Midterm Submission	20%
Final Submission	50%
	100

ECTS Workload Table :

ACTIVITIES	NUMBER	HOUR	WORKLOAD
Course Teaching Hours	**13**	**2**	**26**
Self-study for Assignments	**6**	**3**	**18**
Assignments	**6**	**2**	**12**
Self-study for Midterm Exam	**1**	**30**	**30**
Midterm Exam	**1**	**2**	**2**
Self-study for Final Exam	**1**	**35**	**35**
Final Submission	**1**	**2**	**2**
Total Workload	**0**	**0**	**125**
Total workload/25			**125/25**
ECTS			**5**

GRADING AND EVALUATION

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
A+	-	
A	95-100	4.00
A-	85-94	3.70
B+	80-84	3.30
B	75-79	3.00
B-	65-74	2.70

GRADE	MARKS	VALUE
C+	60-64	2.40
C	55-59	2.20
C-	50-54	1.70
D+	45-49	1.30
D	40-44	1.00
F	0-39	0.00