



Course Code	Course Name	Year/Semester	Theory	Practice	Credits	ECTS
IAED 3104	MATERIAL AND CONSTRUCTION TECHNIQUES FOR FURNITURE DESIGN	2023/24 SPRING	2	2	3	4

**Level of Course:** Undergraduate

**Course Type:** Mandatory Course

**Language of**

**Instruction:** English

**Course time:** Tuesday, 14:00-18:00

**Course classroom:** Std A

**Mode of Delivery:** One on one critique, Class Teaching, Presentation, Assignments.

**Prerequisites and**

**Co-requisites:** IAED 1102 – Technical Drawing II (Prerequisite)

**Course Coordinator:** Asst. Prof. Dr. M.Uğur Kahraman

**Name of Lecturer(s):** Asst. Prof. Dr. M.Uğur Kahraman  
Lec. Galip Kaya  
Lec. Kadir Emre BAKIR

**Course Teaching**

**Assistant:** Selen Yağcı

**Course Objectives:** This course aimed to focus both aesthetical and technical dimension of the furniture. Students will be introduced to the fundamentals of furniture design such as materials, details and finishing and construction techniques. At the end of 14 weeks, students are expected to design and produce 2 real size sitting elements in 1/1 scale by considering the given critiques.

**Course Description:** It is furniture design and building course with practises over sitting elements

**Learning Outcomes:**

- To learn more about the basic qualities of materials by their direct use
- To develop a design sense which is informed by the fabrication process so that forms, structure and details speak about the methods with which they are made.
- To help the student plan a project that is within the scope of the course in terms of time and technique.
- Develop understanding of the logic of sequence of fabrication.
- To learn the technical, practical and theoretical features of furniture design in terms of materials, design process, construction.

**Language:** English

**Planned Learning  
Activities and  
Teaching Method:**

**Learning/Teaching Method:** This is a studio course and students learn about design process by getting directly involved in the process. The studio practice is supported by lectures and group/one-o-one critique sessions. The main teaching medium in studio is individual critiques.

**Project Development:** A series of assignments with emphasis on the main topic will be offered in this course.

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In the first half of the semester assignments will mainly include self-built sitting element according to a concept. In the second half of the semester a wooden sitting element will be designed and produced by students at a professional furniture producer shop.

**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 quarter of the class; if you come later you will be considered half-attended.** At the end of the Semester, your attendance will be reported on SIS 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 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 Text books:** There is no specific textbook for this course. Students are required to study the recommended reading text books such as

1. Fine Wood Working on Planes and Chisels, The Taunton Press
2. Designing Furniture by Seth Stern, The Taunton Press
3. Tilley, A.R., Henry Dreyfuss Associates (2002). The Measure of Man and Woman: Human Factors in Design. New York: John Wiley & Sons, Inc. ISBN 0471099554
4. The Art of Making Furniture by John Makepeace, Sterling Publishing Co.
5. The Unknown Craftsman by Soetsu Yanagi
6. Fine Woodworking on Joinery, The Taunton Press
7. The Fine Art of Cabinet Making by James Krenov, Van Nostrand Reinhold Co.

**Key Works:** In this studio course lectures and assignments mainly focuses on furniture cornering and joints.

**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. Students should use the Internet at school for academic purposes only.
6. It is forbidden to record classes with any type of device.

**Communication:** 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, 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.

**Course Contents\*:  
(Weekly Lecture Plan)**

Date	Week	Chapter Topic	Take-home exercise
13.02.24	1	Brief explanation of the course and course materials and groups	N/A
20.02.24	2	Concept and stool design presentations	N/A
27.02.24	3	Studio Critiques	N/A
05.03.24	4	Studio Critiques	N/A
12.03.24	5	Studio Critiques	N/A
19.03.24	6	Studio Critiques	N/A
26.03.24	7	Studio Critiques	N/A
	8	MIDTERM EXAM	N/A
09.04.24	9	Concept and chair design presentations	N/A
16.04.24	10	Studio Critiques	N/A
23.04.24	11	National Holiday (Make-up Course will be scheduled and announced)	N/A
30.04.24	12	Studio Critiques	N/A
07.05.24	13	Studio Critiques	N/A
14.05.23	14	Studio Critiques	N/A
		<b>FINAL JURY</b>	

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

**Grading:** Midterm and final jury 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 ON GRADING
Midterm Exam	40%

Final Project 60%

ECTS Workload Table :

ACTIVITIES	NUMBER	HOUR	WORKLOAD
Course Teaching Hours	13	4	52
Project Drawings	13	1	13
Midterm Preparation	1	12	12
Midterm Exam	1	4	4
Final Preparation	1	15	15
Final Jury	1	4	4
<b>Total Workload</b>	<b>0</b>	<b>0</b>	<b>100</b>
<b>Total workload/25</b>			<b>100/25</b>
<b>ECTS</b>			<b>4</b>

#### GRADING AND EVALUATION

The students' progress will be evaluated throughout the semester

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