

Course Code	Course Name	Year/Semester	Theory	Practice	Credits	ECTS
IAED 3104	MATERIAL AND CONSTRUCTION TECHNIQUES FOR FURNITURE DESIGN	Spring 2021	2	2	3	4

**Level of Course:** Undergraduate

**Course Type:** Mandatory

**Language of**

**Instruction:** English

**Course time:** Friday, 14.00-17.50

**Course classroom:**

**Mode of Delivery:** Class Teaching, Presentation, assignments

**Prerequisites and** Prerequisites: None

**Co-requisites:** Co-requisites: None

**Course Coordinator:** Assoc. Prof. Dr. Mustafa Kucuktuvek

**Name of Lecturer(s):** Prt. Inst. Elif Bakkaloğlu Küçükmotor

**Course Teaching** Prt. Inst. Galip Kaya

**Assistant:** Serpil Fatma Ertürk

**Course Objectives:** To learn the technical, practical, and theoretical features of furniture design in terms of materials, design process, construction.

**Course Description:** This course focuses on the aesthetical and technical dimensions of the furniture. Students will be introduced to the fundamentals of furniture design such as materials, details, finishings, and construction techniques. In the end, students are expected to re-design and produce a piece of furniture on 1/5 scale by considering the concepts and information that has been given before.

**Level of Course:** **Upon successful completion of the course, students will be able to:**

- 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 an understanding of the logic of the sequence of fabrication.

The studio classes and discussions will be in English.

**Course Type:**

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1. Fine Wood Working on Planes and Chisels, The Taunton Press
2. Designing Furniture by Seth Stem, 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.

**Language of**

**Instruction:**

**Course time:**

**Course classroom:**

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

**Assignments:** Students are required to do short-term and long-term assignments throughout the semester. These assignments will be announced during the semester.

**Class Participation:** Regular attendance of all enrolled classes is expected. Do not be late for the online class. Attendance will be taken online 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 the UBS system. Attendance is compulsory and in case of absenteeism of more than 30%, the system will automatically grade you "FX". In critique sessions, attending the critiques with necessary materials will be considered as your attendance.

**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.

**Key Works:** In this studio course lectures and assignments mainly focus on the material, technical drawing, and furniture manufacturing process.

**Specific Rules:**

1. Be punctual. Punctuality is a sign of respect toward yourself and 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 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.

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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 during office hours 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 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.

**Mode of Delivery:**

Date	Week	Chapter Topic	Take-home exercise
05.03.2021	1	<b>Syllabus overview</b> (Assoc. Prof. Dr. Mustafa Kucuktuvek)	<b>Assignment 1</b> Research of famous furniture designs based on designers
12.03.2021	2	<b>Lecture 1:</b> <b>Classification of furniture</b> (Assoc. Prof. Dr. Mustafa Kucuktuvek)  **Giving feedback to the assignments	<b>Assignment 2</b> Classification of furnitures
19.03.2021	3	<b>Lecture 2: Furniture Technical / Detail Drawing</b> (Lec. Elif Bakkaloğlu Küçükmotor)  Giving feedback to the assignments	<b>Assignment 3</b> Technical drawings of the design
26.03.2021	4	<b>Lecture 3: Furniture Technical / Detail Drawing</b> (Lec. Galip Kaya)  Giving feedback to the assignments	<b>Assignment 4</b> Technical detail drawings of the design

02.04.2021	5	<p><b>Lecture 4: Furniture and Production Methods by Material Type</b>  Wooden furniture  Bamboo furniture  <i>(Assoc. Prof. Dr. Mustafa Kucuktuvek)</i></p> <p><a href="#">Giving feedback to the assignments</a></p>	<p><b>Assignment 5</b>  Investigation of materials used in the design</p> <p><b>Assignment 6</b>  Determining the production method of the design</p>
09.04.2021	6	<p><b>Lecture 5: Furniture and Production Methods by Material Type</b>  Metal furniture  Concrete furniture  Plastic/acrylic furniture  <i>(Assoc. Prof. Dr. Mustafa Kucuktuvek)</i></p> <p><a href="#">Giving feedback to the assignments</a></p>	<p><b>Assignment 7</b>  Preparation of the 3D model of the design</p>
16.04.2021	7	<p><b>Lecture 6: Furniture and Production Methods by Material Type</b>  Natural stone Furniture  Glass furniture  Wicker/rattan furniture  <i>(Lec. Galip Kaya, Lec. Elif Bakkaloğlu Küçükmotor)</i></p> <p><a href="#">Giving feedback to the assignments</a></p>	
	8	<b>MIDTERM EXAM WEEK</b>	
30.04.2021	9	<p><b>Re-design project</b>  Application of innovation, sustainable design, re-use, recycle, new production methods, new materials  <i>(Assoc. Prof. Dr. Mustafa Kucuktuvek)</i></p> <p><a href="#">Discussions and critics on the re-design project</a></p>	<p>Determination of materials used in re-design project</p>
07.05.2021	10	<p><a href="#">Discussions and critics on the re-design project</a></p>	<p>Determination of production methods used in re-design project</p>
14.05.2021	11	<p><a href="#">Discussions and critics on the re-design project</a></p>	<p>Preparing technical and detail drawings of the re-design project</p>
21.05.2021	12	<p><a href="#">Discussions and critics on the re-design project</a></p>	<p>1/5 model preparation</p>
28.05.2021	13	<p><a href="#">Discussions and critics on the re-design project</a></p>	<p>Final Project Preparation</p>
04.06.2021	14	<p>Review and Critiques on Final Project (Pre-final)</p>	

**FINAL SUBMISSION**

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

\*\*This part will be the enrolled instructor.

**Grading:** Midterm and final submission responses will be evaluated for accuracy, thoughtfulness, and clarity based on the announced evaluation criteria.

**Assessment Methods and Criteria :**

METHODS	EFFECTS ON GRADING
Midterm Submission (Arithmetic mean of assignments)	% 30
Participation, Critics, and Quizzes	% 20
Final Submission	% 50
Total	% 100

**ECTS Workload Table :**

ACTIVITIES	NUMBER	HOUR	WORKLOAD
Course TeachingHours	13	4	52
Self-study for Assignments	4	5	20
Self-study for Midterm Project	1	9	9
Self-study for Final Project	1	19	19
<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+	100	4.00
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	2.30
C	55-59	2.00
C-	50-54	1.70
D+	45-49	1.30
D	40-44	1.00
F	0-39	0.00