

İÇM404 - FURNITURE DESIGN II - Güzel Sanatlar Fakültesi - İç Mimarlık Bölümü

General Info

Objectives of the Course

The aim of Furniture Design I is to enable students to develop original, innovative, and manufacturable furniture solutions for advanced design problems, based on the knowledge and skills acquired in the course. The course aims to enable students to create professional-level designs by integrating ergonomics, anthropometry, materials, manufacturing technologies, sustainability, digital manufacturing, and contemporary design approaches.

Course Contents

Furniture Design II covers furniture designs developed in line with complex user requirements, specific usage scenarios, and contemporary lifestyles. The course is a practice-oriented studio course incorporating advanced design approaches, modular and system furniture, sustainable and experimental materials, digital manufacturing techniques, prototyping, and professional presentation processes.

Recommended or Required Reading

There is no single mandatory textbook for this course. The course is conducted using PowerPoint presentations prepared by the instructor, PDF documents, current academic publications, and digital design platforms. National and international literature and industry resources are utilized.

Planned Learning Activities and Teaching Methods

• Advanced theoretical lectures (PowerPoint presentations) • Design studio work • Individual and group critiques • Digital modeling and prototyping applications • Midterm and final jury presentations

Recommended Optional Programme Components

Students are required to create designs on the furniture design topic given to them before coming to class, research the materials for their designs, understand the manufacturing details, and investigate manufacturing methods.

Instructor's Assistants

A PowerPoint presentation prepared by the instructor, and various internet resources related to that week's topic/study.

Presentation Of Course

The course is taught weekly through PowerPoint presentations and PDF documents distributed to students. Internet resources related to the course are also utilized. Following the presentations and explanations given in class, students are evaluated and critiqued on their furniture design projects.

Dersi Veren Öğretim Elemanları

Inst. Feyyaz Ataç

Program Outcomes

1. They can design furniture that suits the function of the spaces and user needs.
2. They know furniture styles, periods and trends.
3. They can design furniture in accordance with the period, style and trends.
4. They understand furniture manufacturing technology and create designs accordingly.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Review of the course syllabus		Theoretical Lecture, Question, Answer and Discussion	Course introduction, aims and scope. Evaluation of the relationship between Furniture Design I and II.	Studio procedures, expectations, and an introduction to term projects.

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
2	Readings on the history of furniture design. Sources: *Oya Boyla, A Short History of Furniture. *Kemal Dinçel, Zafer Işık, History of Furniture Art, Ministry of National Education Publishing House, Istanbul, 1980		The course instructor will conduct oral presentations, lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.	Theoretical: Advanced furniture design approaches and contemporary examples	Design problem definition and conceptual framework development
3	The Use of Artificial Intelligence in the Idea Development Process: The Case of a Furniture Design Course Thesis No: 951598 Author: FURKAN BAŞARAN Supervisors: PROF. DR. BİLGE SAYIL ONARAN Thesis Type: Master's Thesis Subjects: , , Education and Training, Interior Design and Decoration Keywords: Not specified. Year: 2025 Language: Turkish University: Institute: Institute of Fine Arts Department: Department of Interior Architecture and Environmental Design		The course instructor will conduct oral presentations, lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.	User scenarios and advanced ergonomics applications	User profile analysis and scenario-based sketching
4	Modulor – Modulor 2 (Le Corbusier): YEM Publications Design Studies / Applications: YEM Publications Furniture and Design – Deniz Demirarslan: Book Warehouse Modularity in the Furniture Sector: Design of a Modular Turntable Unit with a Systematic Design Approach and Design Registration Process. Dergipak		The course instructor will conduct oral presentations, lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.	Modular and system furniture designs	Sketches and diagrams on module relationships and system configuration
5	Environmental Approaches in Sustainability and Furniture Design: Dergi Park Evaluation of Sustainable Design Criteria in the Furniture Sector (Master's Thesis)		The course instructor will conduct oral presentations, lectures, questions and	Sustainability and eco-friendly furniture design	Material and production method selection,

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
	<p>http://hdl.handle.net/20.500.12597/1819 Designer Awareness in Sustainable Furniture Production (Başkent University Thesis) http://hdl.handle.net/11727/2822</p>		<p>answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.</p>		<p>sustainability analyses</p>
6	<p>The Role of Digital Manufacturing Techniques in Furniture Production. (PDF) THE ROLE OF DIGITAL MANUFACTURING TECHNIQUES IN FURNITURE PRODUCTION The Use of Three-Dimensional Printing in the Furniture Sector. Dergi Park 485152 Manufacturing on Computer-Controlled Machines (CNC). MIT2025BKM1102.pdf</p>		<p>The course instructor will conduct oral presentations, lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.</p>	<p>Digital manufacturing techniques (CNC, laser cutting, 3D printing)</p>	<p>Developing designs suitable for digital manufacturing</p>
7	<p>Materials and Details in Furniture Design – Genco Berkin: YEM Publications Furniture Design – Smardzewski Furniture Design Springer Nature Link</p>		<p>The course instructor will conduct oral presentations, lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.</p>	<p>Detail and construction development in furniture design</p>	<p>Technical drawings and connection details</p>
8	<p>Completing the topics and assignments covered in weeks 1-7. Completing the assignments required for the midterm exam.</p>		<p>The course instructor will conduct oral presentations, lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student</p>	<p>Midterm Jury (Midterm Exam – Project Presentation)</p>	<p>Midterm Jury (Midterm Exam – Project Presentation)</p>

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
			assignments will be evaluated and critiqued.		
9	Architectural Models – Mustafa Akgün. Birsen Publishing House. The Effects of Model Making on Design, Production and Presentation Stages in Art and Design Fields. Dergi Park. https://doi.org/10.17484/yedi.08591		The course instructor will conduct oral presentations, lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.	Prototyping and model/mock-up production techniques	Physical or digital prototyping studies
10	Furniture Design Elements. Dergi Park. 175171 Furniture Decoration - Metin Durmaz. Dergi Park. 175171		The course instructor will conduct oral presentations, lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.	Advanced approaches in color, texture, and surface strategies	Experimenting with material and surface alternatives for designs
11	Innovation and Smart Furniture in the Furniture Industry. Innovation and Smart Furniture in the Furniture Industry International Journal of Advanced Natural Sciences and Engineering Researches The relationship between “inspiration” – “historical transmission” – “innovation” in furniture design. https://doi.org/10.33725/mamad.1702903 . Furni-Tur (Furniture Design Platform). Turkey Design Council - Furni-Tur		The course instructor will conduct oral presentations, lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.	Innovative and experimental approaches in furniture design	Developing design in terms of originality and innovation
12	Presentation Techniques in Architecture — Lorraine Farrelly / Feyza Akder. Literatür Publishing "Suggestions on the		The course instructor will conduct oral presentations,	Innovative and experimental	Developing design in terms of

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
	Application of Visual Design Principles in Architectural Presentation Sheets" — Deniz Kürşad. Dergi Park. https://doi.org/10.32547/ataunigsed.658247		lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.	approaches in furniture design	originality and innovation
13	Presentation Techniques in Architecture — Lorraine Farrelly / Feyza Akder. Literatür Publishing "Suggestions on the Application of Visual Design Principles in Architectural Presentation Sheets" — Deniz Kürşad. Dergi Park. https://doi.org/10.32547/ataunigsed.658247		The course instructor will conduct oral presentations, lectures, questions and answers, and discussions on the topic using a PowerPoint presentation. Student assignments will be evaluated and critiqued.	Individual critique.	Implementation: Development of the final design
14	Presentation Techniques in Architecture — Lorraine Farrelly / Feyza Akder. Literatür Publishing "Suggestions on the Application of Visual Design Principles in Architectural Presentation Sheets" — Deniz Kürşad. Dergi Park. https://doi.org/10.32547/ataunigsed.658247		Evaluation and critique of student work.	Final project preparations, report submission. Individual critique.	Final project preparations, drawing, 3D model and mockup work.
15	Presentation Techniques in Architecture — Lorraine Farrelly / Feyza Akder. Literatür Publishing "Suggestions on the Application of Visual Design Principles in Architectural Presentation Sheets" — Deniz Kürşad. Dergi Park. https://doi.org/10.32547/ataunigsed.658247		Evaluation and critique of student work.	Final project preparations and individual critiques	Final project preparations, drawing, 3D model and mock-up work.

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
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Proje	10	2,00
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Ödev	10	2,00
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Vize	1	2,00
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Uygulama / Pratik	10	1,00
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Ders Sonrası Bireysel Çalışma	14	2,00
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Ara Sınav Hazırlık	2	5,00
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Teorik Ders Anlatım	14	3,00
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Final	1	2,00
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Final Sınavı Hazırlık	4	4,00
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Problem Çözme	10	2,00
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Derse Katılım	10	1,00
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Ders Öncesi Bireysel Çalışma	14	1,00
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Assesments

Activities**Weight (%)**

Final

60,00

Vize

40,00

İç Mimarlık Bölümü / İÇ MİMARLIK X Learning Outcome Relation

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12
L.O. 1	1	2		1	1	1		4		3		1
L.O. 2	3		2	1	4						5	2
L.O. 3		3	2	4	5	3		3		3	2	1
L.O. 4	4	4	2	3	2	2						5

Table :

P.O. 1 :

İç mimarlık alanında sanat ve tasarım bilgilerini aktarabilme ve kullanabilme becerilerine sahiptir

P.O. 2 :

Mekanı oluşturan birimler arasındaki ilişkileri ve mekan tasarlama yöntemlerini kullanabilir

P.O. 3 :

İç mimarlık ve tasarımın diğer alanlarında teknik bilgiye sahiptir.

P.O. 4 :

Karşılaştığı problemlerde iki ve üç boyutlu düşünebilme ve ifade edebilme becerisine sahiptir.

P.O. 5 :

Mekan-İnsan-Mobilya-Çevre ilişkilerini tasarım yoluyla çözümleme becerisine sahiptir

P.O.

Mesleki ve genel kültür bilgisini edinir.

6 :

Tasarım yoluyla etkin bir şekilde iletişim kurabilme yetkinliğine sahiptir.

Teknik ve estetik konuları analiz etme becerisine sahiptir.

Karşılaştığı problemlerde yenilikçi ve özgün çözümler üretir

İç mekan tasarım sürecinin bütününe yönetebilme becerisine sahiptir.

İç mimarlık alanında özelleşmiş tasarım problemleri ile ilgili bilgiye hakimdir.

Bir mimari tasarım / planlama / tasarım projesini bağımsız olarak yürütür, bu süreçler için araştırma projeleri planlar ve yürütür, yeni sentezler üretir.

Mekânların işlevine ve kullanıcı ihtiyaçlarına uygun mobilyalar tasarlayabilirler.

L.O. 2 :

Mobilya stil, dönem ve akımlarını bilirler.

L.O. 3 :

Mobilya dönem stil ve akımlara uygun mobilya tasarlayabilirler.

L.O. 4 :

Mobilya üretim teknolojisini bilirler ve buna uygun tasarımlar yaparlar.