



## ECTS COURSE INFORMATION FORM

School/Faculty/Institute	Faculty of Arts, Design and Architecture		
Program	B.Sc. in Interior Design	Elective	

Course Code	INT 452			
Course Title in English	Fabricated Atmospheres			
Course Title in Turkish	Atmosfer Üretimleri			
Language of Instruction	English			
Type of Course	Lecture			
Level of Course	Undergraduate			
Semester	Spring			
Contact Hours per Week	Lecture:	Recitation:	Lab: 3	Other:
Estimated Student Workload	132 hours per semester.			
Number of Credits	5 ECTS			
Grading Mode	Standard Letter Grade			
Pre-requisites	None			
Expected Prior Knowledge	None			
Co-requisites	None			
Registration Restrictions	Only Undergraduate Students			
Overall Educational Objective	To learn three-dimensional modeling, different possibilities of digital tools for the interior design process, to present basic design ideas in both technical and conceptual precision using digital tools, parametric design and fabrication methods.			
Course Description	This studio course concentrates on experimentation with digital design and fabrication techniques as a means of generating atmospheric effects. The digital techniques such as image sampler, contouring, folding, unfolding, tessellating, subdividing, 3-d printing will be introduced to students during the course. The students will produce the digital data for the fabrication during the class. Then, they select materials and fabricate the digital file. Later, they question the atmosphere when they are assembling the fabricated pieces. Thus, they			

	interpret and transform the fabricated pieces in line with the design concept and program they developed.
<b>Course Description in Turkish</b>	Bu proje stüdyosu öğrencilerin dijital ve fabrikasyon teknikleri aracılığıyla atmosfer tasarımları geliştirmelerine odaklanacaktır. Öğrencilere farklı haftalarda farklı dijital üretim teknikleri tanıtılacaktır. Öğrenciler, bu teknikleri kullanarak, malzeme seçiminden detay tasarımının geliştirilmesi ve dijital üretimin fizikselleşmesi sürecinin sorumluluğunu alacaklardır. Üretim için numerik parametrelere karar verilmesi, malzeme seçimleri, üretimden sonra malzemelerin biraraya getirilişi atmosfer tasarımının sorgulanması ile birlikte geliştirilecektir.
<b>Course Learning Outcomes and Competences</b>	Upon successful completion of the course, the learner is expected to be able to: <ol style="list-style-type: none"> <li>1. understand the basic concepts of parametric design</li> <li>2. understand different possibilities of digital tools for the interior design process</li> <li>3. envision designed atmosphere in different scales</li> <li>4. comprehend role of detail and materials in design</li> </ol>
<b>Relation to Program Outcomes and Competences: N=None S=Supportive H=Highly Related</b>	
<b>Program Outcomes and Competences</b>	<b>Level</b> <b>Assessed by</b>
	<b>N/S/H</b> Exam, HW, Seminar.
1- Ability to read, write and speak effectively in Turkish and English, equivalent to a B2 European Language Passport Level in English.	<b>S</b>
2- Ability to use the knowledge over human-space relationship in terms of perception, experience, and behavior in interior design	<b>H</b> Project
3- Ability to approach to the interior design profession from the perspective of new and evolving theories and practices.	<b>H</b> Project
4-Developing an independent and critical perspective to spatial design	<b>H</b> Project
5- Effective use of interdisciplinary research and design principles in the challenges he/she faces in the field.	<b>S</b>
6- Acquiring the capability to creatively synthesize and bring together insight and knowledge from different sources to solve problems in designing interior space.	<b>S</b> Project
7- Acquiring the ethic and methodological formation to design in line with social responsibility of the interior designer and sustainability of the practice of the profession.	<b>S</b> Project
8- Approaching to and recognizing design and formation of space as a social and ethical practice.	<b>S</b>
9- Having personal traits of creativity, leadership, and inquisitiveness that is required for innovation in design.	<b>S</b> Project
10- Ability to pursuing interior design process in the framework of interdisciplinary and multi-dimensional relationships in local, national and global contexts.	<b>S</b>

11- Ability to present design ideas by utilizing analog and digital presentation tools and in oral and printed form in national and international settings.	<b>H</b>	Project
12- Creating designs that are sustainable and respectful to diverse user needs, local and regional values, and natural and cultural heritage.	<b>S</b>	Project
13- Having vision of shaping future while being conscious of the social role and importance of interior design.	<b>H</b>	Project
14- Determining personal goals of the lifelong learning towards being an intellectual professional and being able to communicate with individuals and groups in national and international spheres for this purpose.	<b>S</b>	
15- Execution of interior design projects according to the national and international standards, professional etiquette, legal and institutional codes.	<b>S</b>	
16- Following most recent researches, discoveries, and practices to reach emerging thoughts, practices, and theoretical perspectives	<b>S</b>	
17- Defining design problems and forming critical approaches and sharing them with relevant stakeholders in the field after recognizing and criticizing contemporary spatial, environmental, urban and social problems.	<b>N</b>	
<b>Prepared by and Date</b>	Saadet Zeynep Bacinoğlu, 19.02.2020	
<b>Semester</b>	Spring 2019-2020	
<b>Name of Instructor</b>	Saadet Zeynep Bacinoğlu	
<b>Course Contents</b>	Week	Topic
	1.	Introduction – fabricated atmospheres
	2.	Using contouring, boolean operation and creating a movie scene in sections
	3.	Fabrication and the assembly of the layers of thin sheets
	4.	Analog manipulations of the contours for lighting and permeability
	5.	Using the surface subdivision operations for tessellating and folding
	6.	Fabrication and the assembly of the laser-cut thin sheets
	7.	Analog manipulations of the surface elements to explore the texture and the surface permeability

	8.	Waffling in the digital environment										
	9.	Fabrication of the waffled geometry										
	10.	Analog manipulations of the waffled material elements for structural stiffness, permeability, texture.										
	11.	Digital design of parametric connection details for lattice structures										
	12.	3-d printing and assembly										
	13.	Finalizing the fabrication and assembly										
	14.	Final Jury: Presentation of the final work										
	15.	Final Examination Period										
	16.	Final Examination Period										
<b>Recommended Readings</b>	<p>Recommended Reading:</p> <p>Iwamoto, L. (2013). Digital fabrications: architectural and material techniques. Princeton Architectural Press.</p> <p>Beorkrem, C. (2017). Material strategies in digital fabrication. Routledge.</p>											
<b>Teaching Methods</b>	The course will have presentations and tutorials by the instructor and in-class student assignments following the presentations.											
<b>Homework and Projects</b>	4 Projects, 1 Final jury											
<b>Laboratory Work</b>	Yes											
<b>Computer Use</b>	Yes											
<b>Other Activities</b>	-											
<b>Assessment Methods</b>	<table> <tr> <td>1. Assessment tests on Blackboard</td> <td>0 points</td> </tr> <tr> <td>2. Quiz</td> <td>0 points</td> </tr> <tr> <td>3. Seminar:</td> <td>0 points</td> </tr> <tr> <td>4. Projects:</td> <td>60 points</td> </tr> <tr> <td>5. Final Presentation:</td> <td>40 points</td> </tr> </table>		1. Assessment tests on Blackboard	0 points	2. Quiz	0 points	3. Seminar:	0 points	4. Projects:	60 points	5. Final Presentation:	40 points
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5. Final Presentation:	40 points											
<b>Course Administration</b>	<p>Office: Saadet Zeynep Bacinoğlu  Email: bacinogluz@mef.edu.tr  Attendance is essential for this course. The students are responsible of following the instructions in each presentation and complete an individual in-class assignments. In total, four in-class assignments will be submitted as four individual projects. The assembly of four projects will be questioned for a final submission. Late submissions will not be accepted. All students are responsible for behaving personally and academically in a way that is expected from a university student. That behavior includes but is not limited to respecting views and ideas of peers; not being involved in a discriminating behavior concerning race, religious beliefs, sexual orientation; always using ones own ideas in their projects. Plagiarism is not allowed and is a serious academic offense. All student work must be original work of the student that is the outcome of his/her intellectual efforts in the studio under the guidance of instructor.</p> <p>Academic Dishonesty and Plagiarism: YOK Disciplinary Regulation</p>											

**ECTS  
Student  
Workload  
Estimation**

Activity	No/Weeks	Hours			Calculation	Explanation
	No/Weeks per Semester (A)	Preparing for the Activity (B)	Spent in the Activity Itself (C)	Completing the Activity Requirements (D)		
Lecture	0	0	0	0	0	$A*(B+C+D)$
Lab etc.					0	
Midterm(s)	0	0	0		0	$A*(B+C+D)$
Assingment, Project, Presentation	14	3	3	3	126	$A*(B+C+D)$
Final Examination	1	3	3	0	6	$A*(B+C+D)$
Total Workload					132	
Total Workload/25					5,28	
ECTS					<b>5</b>	