



## COURSE INFORMATION FORM

Course Name		Course Code		
INDUSTRIAL DESIGN STUDIO IV		141116001		
Semester	Number of Course Hours per Week		Credit	ECTS
	Theory	Practice		
6	3	5	6	11

Course Category (Credit)				
Basic Sciences	Engineering Sciences	Design	General Education	Social
		8		3

Course Language	Course Level	Course Type
Turkish	Undergraduate	Compulsory

<b>Prerequisite(s) if any</b>	INDUSTRIAL DESIGN STUDIO III
<b>Objectives of the Course</b>	To bring the idea of an ecosystem instead of the single product perception To explore current design areas (service, system, experience, etc.) To develop co-designing skills by applying the participatory design approach
<b>Short Course Content</b>	Systems thinking Product ecosystem Participatory design

Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1 Be able to define the product life cycle and the relationship between the phases that make up the cycle,	2,3,5,7,9	1,2,6,10,11,12,13,14	G,J,L
2 Be able to identify and redesign different technologies, actors and experiences between them in this cycle.	2,3,5,7,9	1,2,6,10,11,12,13,14	G,J,L
3 Be able to involve different stakeholders in the design process and manage the process in a healthy way	2,3,5,7,9	1,2,6,10,11,12,13,14	G,J,L
4			
5			
6			
7			
8			

\***Teaching Methods** 1:Expression, 2:Discussion, 3:Experiment, 4:Simulation, 5:Question-Answer, 6:Tutorial, 7:Observation, 8:Case Study, 9:Technical Visit, 10:Trouble/Problem Solving, 11:Individual Work, 12:Team/Group Work, 13:Brain Storm, 14:Project Design / Management, 15:Report Preparation and/or Presentation

\*\***Measuring Methods** A:Exam, B:Quiz, C:Oral Exam, D:Homework, E:Report, F:Article Examination, G:Presentation, I:Experimental Skill, J:Project Observation, K:Class Attendance; L:Jury Exam

<b>Main Textbook</b>	DESIS Network <a href="https://rsdsymposium.org/rsd10-proceedings/">https://rsdsymposium.org/rsd10-proceedings/</a>
<b>Supporting References</b>	
<b>Necessary Course Material</b>	Personal computer, Adobe Photoshop and Illustrator to prepare 2D sketches and layouts, Rhino, Autodesk Fusion, Keyshot, V-Ray programs for depicting and presenting products in 3D

<b>Course Schedule</b>	
<b>1</b>	Introduction of the course, aims, outcomes
<b>2</b>	Systems thinking and ecosystem approach in design, product ecosystem mapping (Techniques and tools)
<b>3</b>	Identifying an element in the ecosystem, research and problem definition
<b>4</b>	Concept development and critique
<b>5</b>	Idea elaboration and critique
<b>6</b>	Idea elaboration and critique
<b>7</b>	Prototyping and critique
<b>8</b>	Mid-Term Exam
<b>9</b>	Encountering with stakeholders, exchange of information and experience
<b>10</b>	Field studies for research and problem definition
<b>11</b>	Concept development and critique
<b>12</b>	Concept development and critique with stakeholders
<b>13</b>	Idea elaboration and critique
<b>14</b>	Idea elaboration and critique with stakeholders
<b>15</b>	Co-prototyping and critique
<b>16,17</b>	Final Exam

<b>Calculation of Course Workload</b>			
<b>Activities</b>	<b>Number</b>	<b>Time (Hour)</b>	<b>Total Workload (Hour)</b>
Course Time (number of course hours per week)	14	8	112
Classroom Studying Time (review, reinforcing, prestudy,...)			
Homework			
Quiz Exam			
Studying for Quiz Exam			
Oral exam			
Studying for Oral Exam			
Report (Preparation and presentation time included)			
Project (Preparation and presentation time included)			
Presentation (Preparation time included)			
Mid-Term Exam	1	8	8
Studying for Mid-Term Exam	1	84	84
Final Exam	1	8	8
Studying for Final Exam	1	112	112
<b>Total workload</b>			<b>325</b>
<b>Total workload / 30</b>			<b>10,83</b>
<b>Course ECTS Credit</b>			<b>11</b>

Evaluation	
Activity Type	%
Mid-term	40
Bir öge seçin.	
Bir öge seçin.	
Final Exam	60
<b>Total</b>	<b>100</b>

RELATIONSHIP BETWEEN THE COURSE LEARNING OUTCOMES AND THE PROGRAM OUTCOMES (PO) (5: Very high, 4: High, 3: Middle, 2: Low, 1: Very low)		
NO	PROGRAM OUTCOME	Contribution
1	Within cultural, historical and artistic context the ability to integrate theoretical knowledge about production and consumption mechanisms into the design practice;	3
2	The ability to plan the design process, to choose and use appropriate methods and techniques;	5
3	The ability to identify design problems and related sub-problems and to produce creative solutions with a critical and dialectical approach;	5
4	The ability to design in terms of spatial thinking using design principles and elements;	3
5	The ability to make applications in the interaction of aesthetics and function using design elements and means and to evaluate these applications;	5
6	The ability to visualize and present using two and three dimensional design tools;	3
7	The ability to follow and apply technological developments, current design approaches, sustainable production methods, materials and innovations in the field of	5
8	The ability to use field knowledge in industrial design projects by considering the needs and interests of the society and target users within the scope of environmental	3
9	The ability to carry out the design process effectively individually or in a team;	5
10	The ability to take an active role in discipline-specific or interdisciplinary studies at the national and international levels.	3
11		
12		

LECTUTER(S)				
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Signature(s)				

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