

ESOGU Faculty of Art and Design Industrial Design Department COURSE INFORMATION FORM

SEMESTER	Spring
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COURSE CODE	1411xx	COURSE NAME	Design and Cognition
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SEMESTER WEEKLY COURSE PERIOD			COURSE OF				
SENIESTEK	Theory	Practice	Laboratory	Credit	ECTS	Туре	Languag
6	2	0	0	2	3	COMPULSORY () ELECT	TIVE (X) Turkish
	_		(COURSE C	ATEGOR	Y	·
Basic Educa	ntion	Desig	1	Natural and Applied Science Social Science		Art	
		X					
	l		AS	SESSMEN	T CRITEI	RIA	
				Evaluat	ion Type	Quantity	%
				lst Mid-Terr		1	40
				2nd Mid-Ter	m		
			T	Quiz			
	MID-TI	ERM	<u> </u>	Homework			
				Project			
				Report			
			_	Others ()		
FINAL EXA	M				,	1	60
PREREQUII	EITE(S)]	N/A			,
COURSE DE	CSCRIPTIO	ON	1	cognitive act problems, the	ion, and co e cognitive	on the process of industrial evers the topics of finding stages a designer goes thr	and solving design
process, and which thinking styles s/he uses. This course aims to increase students' cognitive awareness to how to carry out a more conscious design process.							
ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUCATION This course contributes to the cognitive mastery of the students design process.			of the students in the				
COURSE OUTCOMES 1. Find a design problem more consciously 2. Consciously use reasoning methods in the process. 3. Use design thinking methods consciously process.			oning methods in the design				
ТЕХТВООК				N/A			
1. Cross, N. (2007). Designerly Ways of Knowing. Birkhauser. 2. Lawson, B. (2006). How Designers Think. Oxford UK: Archit Press/Elsevier. 3. Schön, D. A. (1983). The Reflective Practitioner: How Profess. Think in Action, New York, Basic Books. 4. Sinnott, J. D. (Ed.). (1989). Everyday problem solving: Theory application. New York: Praeger.			ord UK: Architectural				

	5 Chan C C (2015) Style and Chartinity in Dasien Springer
	5. Chan, C. S. (2015). Style and Creativity in Design, Springer
	6. Commons, M. L. and Richards F. A. (2003). Four Postformal Stages. In
	J. Demick and C. Andreoletti (Eds.) Handbook of Adult Development. The
	Springer Series in Adult Development and Aging, Book Section (pp. 199-
	219). US: Springer.
	7. Commons, M. L., and Ross, S. N. (2008). What postformal thought is,
	and why it matters. <i>World Futures</i> , 64(5-7), 321-329.
	N/A
TOOLS AND EQUIPMENTS REQUIRED	

WEEKLY COURSE SYLLABUS				
WEEK	TOPICS			
1	Introduction to the course. Information about the subjects to be covered.			
2	What is Cognition? The importance of Cognition in the Design Process			
3	The Design Process models			
4	Creativity Process models			
5	Reasoning and its types			
6	Inductive and Deductive reasoning			
7	Transductive and Abductive reasoning			
8	Mid-Term			
9	Introduction to types of thinking used in the Design Process			
10	Divergent Thinking			
11	Convergent Thinking			
12	Formal Thinking			
13	Relativistic Thinking			
14	Dialectical Thinking			
15	Reflection in Action			
16	Final Exam			

NO	DDOCD AM OUTCOMES	Contribution Level		
NO	PROGRAM OUTCOMES		2	1
1	Within cultural, historical and artistic context the ability to integrate theoretical knowledge about production and consumption mechanisms into the design practice;			х
2	The ability to plan the design process, to choose and use appropriate methods and techniques;	Х		
3	The ability to identify design problems and related sub-problems and to produce creative solutions with a critical and dialectical approach;	Х		
4	The ability to design in terms of spatial thinking using design principles and elements;			х
5	The ability to make applications in the interaction of aesthetics and function using design elements and means and to evaluate these applications;			Х
6	The ability to visualize and present using two and three dimensional design tools;			Х
7	The ability to follow and apply technological developments, current design approaches, sustainable production methods, materials and innovations in the field of informatics in design projects;			х
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 awareness, professional ethics and the laws;			х
9	The ability to carry out the design process effectively individually or in a team;		х	
10	The ability to take an active role in discipline-specific or interdisciplinary studies at the national and international levels.			Х

Instructor(s):	Asst. Prof. Dr. Nazife Aslı KAYA ÜÇOK	
Signature:		Date: