

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

SEMESTER	SPRING
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COURSE CODE	1411xxx	COURSE NAME	Advanced Modelling
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	WEEKI	LY COURSE	PERIOD	OD COURSE OF						
SEMESTER	Theory		Laboratory	Credit	ECTS		Туре		Language	
6	2	1	0	3	5	COM	MPULSORY() ELECTIVE	(X)	Turkish	
				COURSE C	ATEGOR	Y				
Basic Education Design		1	Natural and Applied Science			Social Science		Art		
X										
			AS	SSESSMEN'	r CRITEI	RIA				
				Evaluati	on Type		Quantity		%	
				1st Mid-Tern	1		1		30	
				2nd Mid-Teri	n —					
			[Quiz						
	MID-T	ERM]	Homework			5		30	
]	Project						
				Report						
			_	Others ()					
FINAL EXA	М			1		1	40			
PREREQUIEITE(S) To have successfully completed Computer Aided Design I Aided Design II courses			n I and Computer							
COURSE DESCRIPTION				By designing the products in the industrial design process in electronic environment, it is aimed to transfer the form, texture, color and product-environment relationship, which are the components of the product, in digital environment. The working process, which started in 2 dimensions, is moved to the 3rd dimension, for this purpose, one or two of the 3DS Max, Solidworks, Alias, Vray programs are selected and applications are made specific to the strengths of the programs.						
COURSE OB	SJECTIVE	ES		In addition to providing students with the ability to use computers at the design stage at an advanced level, the primary aim of the course is to assig materials to the products modelled on the computer and render them with the right lighting and obtain photo-realistic images.			course is to assign			
ADDITIVE (PROFESSIO			.Y 6	By transferring the projects which developed on paper to the computer environment, prepares the project for presentation by gaining the ability to test and visualize through digital analysis during the product development process in the digital environment.			ning the ability to uct development			
COURSE OU	TCOMES	S	-	 Recognizes the programs to be used in the design process. Recognizes and uses 3DS Max-Vray menus. Develops photo-realistic visualization skills. 						
техтвоок			-	- Vray manual for 3DS Max						
OTHER REF	THER REFERENCES - 3DS Max manual for 2022									

TOOLS	AND	EQUIPMENTS	REQUIRED

- Desktop or laptop computer, 3DS Max and Vray rendering software

WEEKLY COURSE SYLLABUS				
WEEK	TOPICS			
1	Introduction and installation of 3D modeling and rendering programs			
2	Introducing the interface of the modeling and rendering program, explaining the main titles and menus in the program			
3	The concept of materials and the application of materials to products in Vray program			
4	Vray light and lighting settings (spotlight, spotlight, etc.)			
5	Vray light and lighting settings (spotlight, spotlight, etc.)			
6	Vray camera and its settings (Depth of Field, MotionBlur, etc.)			
7	Vray camera and its settings (Depth of Field, MotionBlur, etc.)			
8	Mid-term			
9	Concept of HDR, Scene design in virtual environment			
10	Visualization settings			
11	Taking images by adjusting the camera and light settings indoors			
12	Taking images by adjusting the camera and light settings outdoors			
13	Sample application via tutorial			
14	Sample application via tutorial			
15	Sample application via tutorial			
16	Final Exam			

NO	PROGRAM OUTCOMES		Contribution Level			
NO			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;	X				
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			
1: None	. 2: Partial contribution. 3: Complete contribution.					

Instructor(s):	Asst. Prof. Dr. Cemil YAVUZ	
Signature:		Date: