

COURSE SYLLABUS

Course Title	Course Code	Semester	Course Hour/Week		Course Hour/Week		Credit	ECTS
3D Modelling, Texturing & Lighting – I	GAME 301	V	TheoryPractice14		3	5		
Course Type	Compulsory Course	Department Elective	Faculty Elective	University Elective	CoHE (YÖK) Elective	Other		
	Yes	-	-	-	-	-		
Level of Course	Associate (Short	ociate Degree hort Cycle)		Undergraduate (First Cycle)		Doctoral I /Third cle)		
	-		Yes		-			

Language of Instruction	English
Lunguage of more action	2

Course Instructor(s)	Assist.Prof.Dr. Yunus Luckinger	E-mail : <u>yunus.luckinger@arucad</u> Office : 1064	.edu.tr			
Course Objectives	This course is an introduction to 3D modeling using industry-standard software. Students will learn the basics of modeling, including creating 3D objects, textures, lighting, and rendering. The course will cover fundamental concepts in 3D modeling and provide students with the skills and knowledge to create 3D models for use in games, animations, and other applications.					
	Students will able to:	Teaching Methods	Evalutation Methods			
Course Learning	1.Students will be able to define 3. Modelling terminologies.	D Direct instruction technique	Midterm: Project Submission			
Outcomes	2.Students will be able to explain a general terminology used in 3D modelling and animation being ab discuss the differences of terminol in both industries.	the le to ogies	Midterm: Project Submission			



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	3. Students will demonstrate and apply 3D modelling techniques to create basic shape models	Direct instruction technique	Midterm: Project Submission		
	4.Students will criticize and examine 3D projects and identify correctly done works from wrongly done works	Direct instruction technique & Demonstration method	Midterm: Project Submission Final: Project Submission		
	5. Students will produce 3D models in different format suitable for video game production pipeline and/or Animation pipelines	Direct instruction technique	Midterm: Project Submission Final: Project Submission		
	At the end of this term, students will have the knowledge and understanding of the virtual 3D space and will be able to create different shapes and models using the related software. Thus, students will be able to; Make volumetric objects like vertices, splines, polygons an etc. Using these, then they will be able to create more complex objects and learn all the basic techniques for textures, light types, image mapping, camera settings in 3D environment as well as some rendering options.				
Course Content	 The main elements of the interface. Basics of two-dimensional forms modeling; Basic methods of 3D modeling; Modeling based on 3D primitives; Shapes; Primitives, polygons, and primary modeling Adding color, glow. Texture, and other meterials. 				
	 Basic lighting concepts and using Camera's installation and setup. Rendering options. Understanding mental ray and HE 	lights. DRI.			

	COURSE OUTLINE/SCHEDULE					
Week	Торіс	Implementati on (theory/practi ce)	Required Reading, Preliminary preparation			
1	Introduction to the course. Overview of 3D modeling Types of 3D models Introduction to industry-standard software	Т	Teacher Notes			
2	Navigation and viewpoints, Basic geometric shapes Extruding and beveling Modeling using polygons	T/P	3D Modeling For Beginners: Learn everything you need to know about 3D Modeling!			



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3	Basic transforms, Pivot points, Coordinate systems, Duplicating objects,	T/P	3D Modeling For Beginners: Learn everything you need to know about 3D Modeling!
4	Modifiers, Modeling tools, Polygon modelling part I	T/P	3D Modeling For Beginners: Learn everything you need to know about 3D Modeling!
5	Polygon Modeling part II	T/P	Teacher Notes
6	Materials and creating texture. Applying textures to 3D objects Creating and editing materials UV mapping	T/P	
7	Prep Work & Asset Creation	T/P	Teacher Notes
8	MIDTERM SUBMISSION		
9	Maps; Bump Maps, Unwrapping and Maps,	T/P	Teacher Notes
10	Introduction to rendering. Lights	T/P	Teacher Notes
11	Rendering Understanding render settings Creating different render types Optimizing render times	T/P	Teacher Notes
12	Environment Creation Creating terrain	T/P	. Teacher Notes
13	Different types of modelling I	T/P	Teacher Notes
14	Different types of modelling II	T/P	Teacher Notes
15	Project and Practice Session 1;	T/P	
16	Project and Practice Session 2;	T/P	
17	FINAL SUBMISSION		



Required Course Material(s) / Reading(s)/ Text Book(s)	Blender Documentation - The official documentation for Blender. It includes tutorials, user manuals, and technical information about Blender: https://docs.blender.org/manual/en/latest/			
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	Blender Guru - A popular online resource for Blender tutorials, tips, and tricks: https://www.blenderguru.com/			
	CG Cookie - A website that offers a range of Blender courses and tutorials for both beginners and advanced users: https://cgcookie.com/			
/Other	Blender Artists - A community of Blender users who share their work, tutorials, and resources: https://blenderartists.org/			
	BlenderNation - A news website that covers the latest Blender-related news, tutorials, and resources: https://www.blendernation.com/			
	Blender Cloud - A subscription-based platform that provides access to Blender training, assets, and tools: https://cloud.blender.org/			

ASSESSMENT					
Learning Activities	NUMBER	WEIGHT in %			
Mid-Term	1	40			
Quiz	-	-			
Assignment	-	-			
Project	-	-			
Field Study	-	-			
Presentation / Seminar	-	-			
Studio Practice	-	-			
Other	-	-			
Contribution of Final Examination/Final Project/ Dissertation to the Final Grade	1	60			
TOTAL		100			



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No	PROGRAMME LEARNING OUTCOMES		Contribution (1 lowest/ 5- highest)				
		1	2	3	4	5	
1	Knows the historical development of the field of communication, basic concepts, theories.	x					
2	Knows the basic concepts and terminology related to the field of game design.			x			
3	Has knowledge about the history of computer and video games and developments in this field.				X		
4	Knows game design processes and related applications.					X	
5	Has the ability to utilize various disciplines such as communication, art, music, psychology, mythology, cinema, etc. in the game design process.					X	
6	Has the ability to analyze analog and digital game genres.					X	
7	Has the ability to use contemporary game engines and problem solving skills.					x	
8	Has the knowledge of questioning the game designs with an analytic and critical perspective.					X	
9	Has knowledge about media literacy.	x					
10	Has the competence to prepare projects based on ethical principles in game development processes.	x					
11	Has the competence to evaluate games as an art form.			x			
12	Has the competence to use game design concepts and methods in related fields such as design, software development and media.			x			
13	Has the competence to take part and responsibility in game development teams.				X		
14	Has the competence to collect, analyze and interpret analytical data about games and players.					X	
15	Has the competence to develop and present a digital game project by using game design practices effectively.					X	
16	Evaluates artificial intelligence applications in their studies with a critical approach in terms of aesthetics and originality, and uses them in accordance with ethical rules.					x	



ECTS / STUDENT WORKLOAD						
ACTIVITIES	NUMBER	UNIT	HOUR	TOTAL (WORKLOAD)		
Course Teaching Hour (X weeks * total course hours)	15	-	5	75		
Preliminary Preparation and self- study	15	-	1	15		
Mid-Term	1	-	15	15		
Quiz	-	-	-	-		
Assignment	-	-	-	-		
Project	-	-	-	-		
Field Study	-	-	-	-		
Presentation / Seminar	-	-	-	-		
Studio Practice	-	-	-	-		
Final Examination/ Final Project/ Dissertation	1	-	20	20		
Other	-	-	-	_		
TOTAL WORKLOAD				125		
TOTAL WORKLOAD / 25				5		
ECTS				5		

ETHICAL RULES WITH REGARD TO THE COURSE

Plagiarism Disclaimer

Detected and undetected plagiarism is a serious offence at any time and it could have devastating effects on your degree result and future professional life.

Plagiarism is easy to avoid if you make sure you thoroughly identify and recognize your sources and do not copy from visual examples, designs or notes taken directly from your sources word for word. The maximum citation limit cannot exceed 20%. Artificial intelligence citations are also considered within this scope. If proven otherwise, the student will fail the course.

ASSESSMENT DETAILS AND EVALUATION CRITERIA:



FACULTY OF COMMUNICATION COURSE SYLLABUS

Final Grades will be determined according to the Course Learning Activities and Final Examination/ Project/ Dissertation Assessment Details as below, and comply with the Education and Examination Regulation set forth by the University.

Throughout the course, students will learn the theoretical base of the topic and they will be able to equip themselves with the practical know-how skills of Advertisement production. Also, students are expected to design a creative advertisement piece with the knowledge they have gained in the course.

During the class sessions, participation is a very important input for the learning process for the students. It is also vital to understand the effect of creativity input on the production process of advertisement.

70% attendance to courses is compulsory. Health reports belong to 30% absenteeism right.

Please beware that the class uses teams. Thus, submissions have to be made Printed and digitally.

Late work can only receive full credit in extreme circumstances and will be penalized otherwise as follows:

•	Over a day but less than two days late:	10% deducted

- Over two days but less than a week late: 20% deducted
- A week or more late:

PREPARED BY Assist.Prof.Dr. Yunus Luckinger			
APPROVED			

Not accepted: 0%