

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Three Dimensional Modelling Design							
Course Code	BPR191		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 2 Workload 50 (Hours)		50 (Hours)	Theory	2	Practice	0	Laboratory	0
			teach how to design and design 3D computer models and animations and to ntent using 3Ds Max program.					
Course Content	develop 3D educational content using 3Ds Max program. 3D modeling is the process of developing a three-dimensional mathematical model of a living or inanimate object with special programs for 3D modeling in general using computer graphics. The 3D models prepared with the 3D modeling process are often used simultaneously with the tools that provi a realistic look to the 3D rendering model. In the process of 3D modeling, the data of the computer graphics are usually obtained by the user by step by step processing like sculpture and plastic arts. In most cases, manual 3D modeling can be performed automatically by the user. Automated 3D mode can be done by entering certain values ??into previously made algorithms or by various scanning devi such as a 3D scanner. For example, MRIs used in hospitals serve as a kind of 3D scanner. Turkey and areas in the world, which is quite extensive 3D modeling, manufacturing as it used to make three-dimensional model of a structure to be constructed model is also used for the preparation of a product to be made. Today, the history of 3D models, which become an indispensable part of the game and animation world, is even older than personal computers. At the beginning, we apply for interactive presentations such as films, video games, 3D models used in interior design and architecture, and anatomy in the medical sector. In this context, examining the sample applications and developing new model designs suitable for the content form the content of the course.					e 3D at provide ater arts. D modeling ag devices o make of a ae gaming ractive and		
Work Placement N/A								
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	ation), Discussi	on, Individua	Study, Problem	Solving
Name of Lecturer(s)								

Assessment Methods and Criteria						
Method		Quantity	Percentage (%)			
Midterm Examination		1	40			
Final Examination		1	70			

Recommended or Required Reading

1 3D Studio Max (Kodlab)

Week	Weekly Detailed Cour	rse Contents				
1	Theoretical	Introduction to 3D model and animation in education				
2	Theoretical	3D modeling and animation programs, basics of 3Ds Max program, menus of 3Ds Max program, usage of 3Ds Max tees,				
3	Theoretical	3D modeling bases, explaining the properties of different modeling methods, working with sub- objects				
4	Theoretical	Curve modeling, working with sub-objects of 2D objects				
5	Theoretical	Expansion and collapse, use of Loft command, polygon edges softening				
6	Theoretical	Modeling for motion graphics, using some 2D editors				
7	Theoretical	Modeling for motion graphics, using some 2D editors				
8	Theoretical	Polygon modeling technique, modeling lines, use of regulators, subsections of surface modeling				
9	Intermediate Exam	midterm				
10	Theoretical	Polygon modeling with modeling strip, Introduction to Nurbs modeling, editing of curves and surfaces				
11	Theoretical	Using material bases and usage, adjusting opacity, using transactional overlay and bitmaps				
12	Theoretical	Camera creation and viewing angle adjustment, Lighting bases and stage light settings				
13	Theoretical	Key frame animations, transition animation preparation, repetitive animation creation.				
14	Theoretical	Hierarchies, linking objects and playing a hierarchy and optimizing animation				
15	Theoretical	Animation controls, gripping controllers and using the motion panel				
16	Final Exam	Final Examination				



Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	0	2	28	
Assignment	1	0	5	5	
Term Project	1	0	5	5	
Midterm Examination	1	5	1	6	
Final Examination	1	5	1	6	
Total Workload (Hours)					
	2				
*25 hour workload is accepted as 1 ECTS					

Learn	ing Outcomes
1	They will have the ability to design 2-D character and multi-angle design planning required for 3-D modeling.
2	They will have concept design knowledge that can meet their animation production needs.
3	Will be able to transfer 2D designs to 3D space
4	They will have the ability to conceptualize a design idea.
5	Have an idea about the aesthetic dimension of design
6	To have the necessary drawing techniques and skills during the animation design process
7	To be able to define 3D animation software and materials

Progr	ramme Outcomes (Construction Technology)
1	Being able to have professional knowledge and skills as a result of being supported by the application on vocational qualifications gained in secondary education
2	To choose and use building materials
3	Building installations can be done
4	Applying concrete technology
5	Construction of roads
6	To be able to make professional computer applications
7	Technical drawings
8	Making professional drawing
9	Bidding and contracting
10	To be able to organize the site
11	Control and documentation of manufacturing
12	Can make application of building repair and strengthening works
13	To be able to determine soil types and make soil tests
14	Can control water supply and transmission activities
15	Making waste treatment facilities for polluting resources
16	Projecting of construction elements
17	Being able to make a professional project
18	Make land measurements
19	To be able to make professional practices

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L4	L5	L7
P1		2	2	2	2
P2		2	2	2	2
P3		2	2	2	2
P4		2	2	2	2
P5	4	2	2	2	2
P6		2	2	2	2
P7	4	2	2	2	2
P8	4	2	2	2	2
P9		2	2	2	2
P10		2	2	2	2
P11		2	2	2	2



P12		2	2	2	2
P13		2	2	2	2
P14		2	2	2	2
P15		2	2	2	2
P16	4	2	2	2	2
P17		2	2	2	2
P18	4	2	2	2	2
P19	4	2	2	2	2

