

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)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course is to teach how to design and design 3D computer models and animations and to develop 3D educational content using 3Ds Max program.							
Course Content		inanimate obje models prepar a realistic look graphics are u In most cases, can be done b such as a 3D s Turkey and are three-dimension product to be r and animation presentations anatomy in the	ect with specia red with the 3 to the 3D re- sually obtained, manual 3D re- y entering ce- scanner. For eas in the wo onal model of made. Today world, is eve- such as films e medical seco-	al programs f D modeling p ndering mode ed by the use modeling can rtain values ? example, MR rld, which is c a structure to the history c n older than p , video game tor. In this co	or 3D mo process an el. In the p be perfor er by step be perfor er by step be cons of 3D mod personal s, 3D mod ntext, exa	deling in genera re often used sin process of 3D mo by step process rmed automatica viously made alg hospitals serve nsive 3D modeli tructed model is lels, which becon computers. At th dels used in inte	I using com nultaneousl odeling, the ing like scu illy by the u gorithms or as a kind c ng, manufa also used f ne an indis e beginning rior design ple applicat	model of a living o puter graphics. Th y with the tools that data of the compu- lpture and plastic ser. Automated 3D by various scannin of 3D scanner. cturing as it used for the preparation pensable part of th g, we apply for inte- and architecture, a ions and developin	ne 3D at provide uter arts. D modeling ng devices to make of a ne gaming eractive and
Work Placement N/A									
Planned Learning Activities a		s and Teaching I	Methods	Explanation	(Present	ation), Discussio	on, Individua	al Study, Problem	Solving
Name of Lecture	er(s)								

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 Course Contents						
1	Theoretical	Introduction to 3D model and animation in education					
2	Theoretical	D modeling and animation programs, basics of 3Ds Max program, menus of 3Ds Max program, sage of 3Ds Max tees,					
3	Theoretical	D modeling bases, explaining the properties of different modeling methods, working with sub- bjects					
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

Quantity	Preparation	Duration	Total Workload				
14	0	2	28				
1	0	5	5				
1	0	5	5				
1	5	1	6				
1	5	1	6				
Total Workload (Hours)							
[Total Workload (Hours) / 25*] = ECTS							
	-	14 0 1 0 1 0 1 0 1 5 1 5	14 0 2 1 0 5 1 0 5 1 5 1 1 5 1 1 5 1 1 5 1 1 5 1 1 5 1				

*25 hour workload is accepted as 1 ECTS

Learning 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						

Programme Outcomes (Automotive Technology)

1	To be able to interpret and evaluate data, identify problems, analyze them, and develop evidence-based solutions by using basic knowledge and skills in the field.
2	Must be able to choose and effectively use the modern techniques, tools and information technologies necessary for field related applications.
3	Must be able to gain practical skills by examining relevant processes in industry and service sector on site.
4	They must be able to produce solutions, take responsibility for teams or do individual work when they encounter situations unforeseen in the field related applications.
5	Awareness of the need for lifelong learning; it must be able to follow the developments in science and technology and to constantly renew itself.
6	Must be able to use computer software and hardware at the basic level required by the field
7	Must have job security, worker health, environmental protection knowledge and quality awareness.
8	He must possess a level of foreign language knowledge that is capable of following the innovations in his area of expertise and communication techniques.
9	Must be able to acquire basic theoretical and practical knowledge about the field in mathematics, science and basic engineering.
10	It should have the ability to plan the processes / processes of the Automotive Program to meet the expectations of the sector.
11	To be able to design the systems and components related to the field by using technical drawing, computer aided drawing, designing using simulation programs and using various softwares, to be able to make basic sizing calculations, to be able to master professional plans and projects.

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

	L1	L2	L3	L4	L5	L6	L7
P5	3	3	3	3	3	3	3
P11	3	3	3	3	3	3	3

