



Computer Aided Design II (EÜT 242) Course Details

Course Name	Course Code	Term	Lecture Hours	Application Hours	Lab Hours	Credit	ECTS
Computer Aided Design II	EÜT 242	Spring	2	2	0	3	4

Pre-requisite Course(s)	EÜT 241 Computer Aided Design I
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Course Language	Turkish
Course Type	Compulsory Departmental Courses
Course Level	Bachelor
Mode of Delivery	Face to Face
Learning and Teaching Strategies	Lecture, Demonstration, Discussion, Question and Answer, Drill and Practice, Observation Case Study, Problem Solving, Brain Storming
Course Coordinator	• Instructor Bülent ÜNAL

Course Lecturer(s)	
Course Assistants	
Course Objectives	Development of the necessary analysis and practical skills for transferring the designs or existing products to computer environment.
Course Learning Outcomes	<p>The students who succeeded in this course;</p> <ul style="list-style-type: none"> • Models the designs and existing products in computer environment quickly and accurately. Details and visualizes the projects in computer environment. Prepares two dimensional presentations in computer environment. •
Course Content	Using solid modelling and NURBS modelling, which are three dimensional modelling techniques, the students make 3d model of their designs. Besides modelling, the course covers subjects such as material editing and preparation of the projects through rendering techniques. Rhinoceros and 3D Studio Max will be taught throughout the course.

Weekly Subjects and Related Preparation Studies

Week	Subjects	Preparation
1	Review of EÜT 241 course	Review of EÜT 241 course
2	Drawing 3d objects	Scaled modelling of a given object
3	Drawing 3d objects	Scaled modelling of a given object
4	Drawing 3d objects	Scaled modelling of a given object

5	Drawing 3d objects	Scaled modelling of a given object
6	Detailed solid modelling	Review of solid modelling examples
7	Detailed solid modelling	Review of solid modelling commands
8	Detailed solid modelling	Review of solid modelling commands
9	Editing commands	Review of the detailed modelling examples on the internet
10	Creating deformable forms	Review of the commands taught in the previous course
11	I. Mid Term	Review of the course subjects and examples
12	Creating deformable forms	Examination of the product to be modelled
13	Creating deformable forms	Modelling a given example
14	Creating deformable forms	Modelling a given example
15	Students select a product and model it.	Modelling the object chosen
16	Students select a product and model it.	Modelling the object chosen

Sources

Other Sources:	1. Rhinoceros NURBS Modeling for Windows/Training manual level 1
	2. Rhinoceros NURBS Modeling for Windows/Training manual level 2

Evaluation System

Requirements	Number	Percentage of Grade
Attendance/Participation	1	10
Laboratory	-	-
Application	-	-
Field Work	-	-
Special Course Internship	-	-
Quizzes/Studio Critics	-	-
Homework Assignments	1	20
Presentation	-	-
Project	-	-
Seminar	-	-
Midterms Exams/Midterms Jury	1	30
Final Exam/Final Jury	-	-
Total	3	60

Percentage of Semester Work	60
Percentage of Final Work	40
Total	100

Course Category

Core Courses	X
Major Area Courses	
Supportive Courses	
Media and Management Skills Courses	
Transferable Skill Courses	

The Relation Between Course Learning Competencies and Program Qualifications

#	Program Qualifications / Competencies	Level of Contribution				
		1	2	3	4	5
1	Has the ability to reflect the multidimensional knowledge obtained regarding the field to the academic environment.			X		
2	Has the knowledge and understanding regarding the necessary intellectual, discursive, scientific, technological, aesthetic, artistic, historical and cultural background for the field.				X	
3	Has the knowledge and understanding in the economic, environmental, social areas and regarding the sustainability principles and standards in the field of Industrial Design.					

4	Has the knowledge of legal framework and standards regarding the field.					
5	Has the knowledge and understanding on the corporate and ethical values regarding the field.		X			
6	Has the ability to develop concepts and reflect the theory to practice, develop alternative design solutions and carry out the project process independently from the conceptual stage to the implementation.					X
7	Has the ability to identify the necessary research in the field, use the correct research methods and techniques and interpret the results.			X		
8	Has the ability to use the effective drawing, written and visual presentation techniques and tools in the studies regarding the field.					X
9	Has the self-confidence and competence to take individual and collective responsibility in the interdisciplinary studies.				X	
10	Learns the knowledge and abilities in the field by evaluating them with a critical approach and through generating antithesis and synthesis.		X			
11	Acts with the awareness of lifelong learning. Has the necessary motivation and learning skills for this.			X		
12	12 Follows the developments in the field through using a foreign language at least at European Language Portfolio B1 level and communicates effectively with the colleagues.			X		
13	Uses the computer software at least at the advanced level of European Computer Driving Licence and uses the information technologies required in the field interactively.					X
14	Uses his/her knowledge and skills in a professional manner, in the light of ethical principles, in accordance with the professional rules and standards and legal frameworks and considering their social, environmental and ethical consequences.					

15	With the knowledge of human values, the student is respectful to the human rights and social and cultural rights. Shows the necessary sensitivity for the protection of the natural environment and cultural heritage; acts with the awareness of social responsibility and social justice.					
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ECTS/Workload Table

Activities	Number	Duration (Hours)	Total Workload
Course Hours (Including Exam Week: 16 x Total Hours)	16	4	64
Laboratory			
Application			
Special Course Internship			
Field Work			
Study Hours Out of Class	16	3	48
Presentation/Seminar Preparation			
Project			
Homework Assignments	1	3	3
Quizzes/Studio Critics			
Preparation of Midterm Exams/Midterm Jury	1	3	3
Preparation of Final Exams/Final Jury	1	4	4
Total Workload			122