COURSE INFORMATION FORM

INSTITUTE/FACULTY/SCHOOL and PROGRAMME: Dr. Engin PAK Cumayeri Vocatinal School – Mechatronic Programme							
COURSE INFORMATION							
Name	**Code**	**Medium of Instruction**	**Type** Required/ Optional	**Semester**	**T+P Hour**	**Local Credit**	**ECTS**
Computer Aided Drawing II	MEK2113	Türkçe	Zorunlu	II	2+1	3	4

Pre-requisites	None

Course Instructor	Lecturer Dr. Erman ZURNACI
Instructor Assistants	-

Course Objective	In this course; The aim of this course is to apply the principles of computer-aided drawing and design and modeling of 2 and 3-dimensional parts and adhering to the principles of technical drawing.

Course Learning Outcomes	To be able to make 2-D drawing using computer-aided technical drawings 3-D drawings to create product models, To gain the ability of machine parts modeling and assembly, To be able to simulate the modeled products, To gain machine design logic.

COURSE PLAN

Week	Subjects/Applications	Method
1	Introduction to the Program and Basic Parameters	Demonstration, Practice
2	Drawing and Editing 2D Geometric Shapes	Demonstration, Practice
3	2D drawing and formatting shapes	Demonstration, Practice
4	Creating Draft Model Drawings	Demonstration, Practice
5	Dimensioning of 2D Drawings	Demonstration, Practice
6	2D Drawing Applications	Demonstration, Practice
7	2D Drawing Applications	Demonstration, Practice
8	**Midterm**	Demonstration, Practice
9	Creating and Editing Solid and Surface Models	Demonstration, Practice
10	Operations in Solid and Surface Models	Demonstration, Practice
11	Editing and Formatting 3D Drawings	Demonstration, Practice
12	Dimensioning in 3D Models	Demonstration, Practice
13	Bringing Pictures Ready for Manufacturing	Demonstration, Practice
14	3D Drawing Applications	Demonstration, Practice

COURSE RESOURCES	
Coursebook /Notes	• Lecture Notes • SolidWorks – 2, Haluk Tatar, Seçkin Yayıncılık, Mayıs 2014 / 1. Baskı. • Solidworks ile Ürün Tasarımı ve Örnek Uygulamalar, Yrd. Doç. Dr. Hacı Soğukpınar, Seçkin Yayıncılık, Haziran 2015 / 1. Baskı.
Other Resources	• Internet

ASSESSMENT SYSTEM	
Activity Types	**Contribution Percentage**
Midterm(s)	40
Quizzes	-
Assignments/ Projects	-
Final	60
Total	100

THE CONTRIBUTİON OF THE COURSE OUTCOMES TO PROGRAMME OUTCOMES							
No	**Programme Outcomes**	**Contribution Level**					
		1	**2**	**3**	**4**	**5**
1	Becomes conscious about the principles of Atatürk and has knowledge about revolution history					
2	Utilizes together mathematics, science and theoretical and applied knowledge in their field for engineering solutions.			X		
3	Determines, identifies formulizes and solves the problems. For this purpose selects and applies analytical methods and modeling techniques.			X		
4	Selects and utilizes the necessary modern techniques and equipment for industrial applications.					X
5	Designs and performs experiments, collects data and analyzes and elaborates results.					
6	Works effectively as an individual or in multidisciplinary teams.	X				
7	Collects information and makes literature survey for this purpose, utilizes databases and other information sources.					
8	Be aware of lifelong learning; follows the developments in science and technology and continuously renews himself.					

9	Analyzes and designs under realistic constraints a system, a system component or a process for meeting the required needs, for this purpose applies modern design methods.				X	
10	Has possession of sufficient professional knowledge of foreign languages			X		
11	Communicates by using technical drawing.					X
12	Be aware of the universal and social effects of industrial solutions and applications; is aware of entrepreneurship and innovation and has idea about the problems of the era.			X		
13	Has knowledge about quality assurance and standardization and possess skills of execution of operations. In the same time, has the professional and ethical responsibility.			X		
14	Is conscious of project management, business administration, health of the workers, environment and work safety; is aware of the legal consequences of industrial applications.				X	

ECTS / WORKLOAD TABLE		**Workload (hour)**
In-Class	Lesson Hours (14 x Weekly Lesson Hours)	56
Out of-Class	Assignments	42
	Research	
	Class Preparation and After Class Study	
	Other Activities	
Examinations	Midterms (Number of Midterms x Duration of Midterms)	2
	Final	2

Total Workload	102	
Total Workload / 25,5 (h)	4	
Course ECTS Credit	4	