Alanya Alaaddin Keykubat University | Rafet Kayış Faculty of Engineering Mechanical Engineering Department 2021-2022 Spring Semester SYLLABUS

Code/Name	MEC 104 / Computer Aided Technical Drawing					
Туре	Required					
Credit/ECTS	*					
Hour per Week 4 (2+2+0)						
Level/Year Undergraduate/1						
Semester Spring						
Classroom	Com Lab 308					
Content	Graphical interpretation of orthographic projection to include auxiliary views, section views, dimensioning, translation of design instructions into detail and assembly drawings, drawing conventions including referencing and surface finish notation, election of tolerances based on design requirements.					
Prerequisites						
Textbooks	Primary Giesecke, F.E., et al, Engineering Graphics, MacMillan Pub, New York, 2004. Supplementary Jensen, C.H. Engineering Drawing and Design, McGraw-Hill, 2008.					
Objectives	 Learning the standard techniques of preparing engineering drawings, reading and interpreting drawings, and solving three-dimensional technical problems that require the application of descriptive geometry and graphical analysis, computer aided drafting and modeling Present standard 2D blueprint and solid models. 					
Course Outcomes	In this course you will be able to: CO1 Draw 2D drawings in standard 2D blueprint forms CO2 Apply dimensioning in 2D drawings CO3 Design and align given parts in an assembly CO4 Print out and present 2D drawing CO5 Create solid model of a part CO6 Modify 2D & 3D designs					

Weekly Schedule of Topics

W	Торіс
1	Introduction to computer aided drawing
2	Parametric design & basic drawing functions
3	Orthographic projection and multi-view drawings
4	Principles and applications of dimensioning
5	Creating sectional views
6	Modifying commands
7	Three dimensional design and creating parts in 3D drafting
8	Three dimensional design and creating parts in 3D drafting
9	Applying constraints and dimensioning in solid modeling
10	Extruding, modifying and redefining, feature construction
11	Transferring 3D parts to drafting detailing
12	Assembly modeling and assembling drawing
13	Surface modeling

14 Design project presentations

		0									
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011
C01	5	2	3	2	1	2	0	0	2	0	0
CO2	5	2	3	2	1	2	0	0	2	0	0
CO3	5	2	3	2	1	2	0	0	2	0	0
CO4	5	2	3	2	1	2	0	0	0	0	0
CO5	5	2	3	2	1	2	0	0	0	0	0
C06	5	2	3	2	1	2	0	0	0	0	0

Contribution to Program Outcomes*

* Contribution Level | 0: None | 1: Very Low | 2: Low | 3: Medium | 4: High | 5: Very High

Special Conditions	 Students work in groups for project and presentations. 					
Requirements						
Evaluation	Midterm Exam50%Final Exam50%					
	Total 100%					
Rubric						
Course Policy	 You must attend at least 70% of the sessions including add-drop period. Be in the class on time. English should always be used to communicate with one another. Mobile phone should be switched off and put away during the class. You cannot talk to your friends during class no matter what the subject is. 					
Cheating & Plagiarism	 Copying or letting someone to copy your work on exams, assignments, or reports is cheating. Cutting and pasting text, figures and tables from the web sources or any other electronic source is plagiarism. The consequence of academic dishonesty is to receive a grade of F for the course. 					

Instructor

Name/Surname	Fatih Darıcık	Email	fatih.daricik@alanya.edu.tr
Room	413	Office Hours	Monday: 13:00 – 14:00
			Tuesday: 10:00 – 11:00

Prepared by Fatih Darıcık on Feb. 04, 2022