

Course Name	Course Code	semester	T + P	Credit	ECTS
Computer Aided Drawing			3+0	3	4

Prerequisite Courses	None
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Language of Course	Turkish
Course class	compulsory
Coordinator of Course	
Instructor	
Course Assistant	
Objective of Course	It is aimed to comprehend the basic elements of computer aided drawing and design (CAD), to draw in computer environment by using various package programs for two dimensional and three dimensional technical drawing applications.
Course Learning Output	<ul style="list-style-type: none"> • It is expected that the basic principles and concepts of Technical Drawing will be known by the student. • Ability to use CAD program to develop two and three dimensional technical drawings in computer environment. • After completing the curriculum of this course, students will have the knowledge and skills to create objects designed in two and three dimensions by means of the acquired skills in computer environment and transfer them to the written medium. • Students will have knowledge of designing and drawing parts of machines using CAD programs, based on sectoral needs, at the level of international standards
Course Contents	Basic CAD Concepts and introduction to CAD program, Two dimensional drawing commands, Isometric drawings, Three dimensional drawing techniques.

Weeks	Topics
1	CAD Programs and the Engineering Features and Features of the Autocad Program Introducing the Hardware Components of an Autocad Workstation Using the Program's Basic Functions and Control Keys
2	Basic Drawing Commands: Line, Fillet, Chamfer, Offset, Copy, Mirror, Move, Osnap Rotate Trim, Extend, Zoom, Point, Line, Circle, Erase, Undo Hatch Redo
3	Basic Drawing Commands: Text Limits, Oops Polygon, Ellipse, Donut, Trace, Solid Block, Wblock, Inserts, Minsert, Explode Pline, Break, Array
4	Dtext, and Prototype File Creation Horizontal Measuring, Vertical Measuring, Diameter Measuring, Radius Measuring, Inclined Measuring, Rotated Measuring Using Measuring Instruction Angle Measuring and Carrying Reading and Application of Dimensioning
5	Isometric Drawings and Dimensioning
6	Isometric Drawings and Dimensioning
7	Basic Drawing Commands:, Align, Measure, Divide, Change, Chprop, Area, Dist, Id, List, Pedit
8	MIDTERM

9	Transfer of drawings from computer to paper
10	Three dimensional drawing techniques
11	Solid model creation commands
12	World coordinate and user coordinate systems
13	Removal of manufacturing drawings from solid modeling
14	Removal of manufacturing drawings from solid modeling (continued)
15	FINAL EXAM

General Sufficiency
Evaluations will take into account the objectives of the course and the development of research capabilities in the context of basic engineering design and analysis, students' understanding of basic principles and experience in these subjects.
References
<ul style="list-style-type: none"> • Drawing Techniques and Modeling with AutoCAD Professor Dr. Muammer NALBANT • Computer Aided Technical Drawing with AutoCAD Assoc. Prof. Dr. Ümit KOCABIÇAK • Technical Drawing Application Pages Kemal TÜRKDEMİR- Kudret KANDEMİR- Aksun AKBIYIK
Assessment
Midterm exam: 40%, Final exam: 60%; Project or homework evaluations may be made at the beginning of the semester.