

Vocational School / Construction Technology
2024 - 2025 Academic Year
COMPUTER AIDED DRAWING I
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
COMPUTER AIDED DRAWING I	İNŞ1227250	Spring Semester	3+0	3	4
Prerequisites Courses					
Recommended Elective Courses	Computer aided drawing 2				
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Lect. Fatma Bengü YOĞURTÇU				
Name of Lecturer(s)	Lect. Ahmet OKUTAN				
Assistant(s)					
Aim	To provide a broad introduction into 2-dimensional computer aided design (CAD) and gain the ability of using one of industry-leading CAD software programs, AutoCad, to prepare 2D presentations.				
Course Content	This course contains; Introduction to CAD & Introduction to AutoCad, Overview of AutoCad commands, Geometric drawing commands, Geometric drawing commands, Editing commands, Dimensioning, Drawing of views and sections, Drawing of views and sections, Isometric drawing, Printing, Advanced commands, Advanced commands, Drawing practice, Drawing practice..				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
The student will be able to visualize details of an object with computer aided design program.			14, 17, 2, 6, 9	A, E	
The student will be able to create 2D representations of 3D objects as plan view, elevations and sections.			17, 2, 6, 8, 9	A, F	
The student will be able to prepare technical drawing sheets in industry-standard plan form.			17, 2, 6, 9	A, F	
The student will be able to produce plotted hardcopies of a drafting in Autocad, which are ready for distribution.			17, 2, 6, 9	A, F	
The student will be able to understand the power of computer aided design and drafting in industry.			2, 6, 9	A, F	
Teaching Methods	14: Self Study Method, 17: Experimental Technique, 2: Project Based Learning Model, 6: Experiential Learning, 8: Flipped Classroom Learning, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework, F: Project Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction to CAD & Introduction to AutoCad.				
2	Overview of AutoCad commands.				
3	Geometric drawing commands.				
4	Geometric drawing commands.				
5	Editing commands.				
6	Dimensioning.				
7	Drawing of views and sections.				
8	Drawing of views and sections.				
9	Isometric drawing.				
10	Printing.				
11	Advanced commands.				
12	Advanced commands.				
13	Drawing practice.				
14	Drawing practice.				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
H. K. Sürmen, Autocad 2014-2015/2D Temel ve İleri Seviye, Birsen Yayınevi. H. Gökkaya, K. Alca, M. Altın, Autocad 2015 Çizim-Modelleme, Nobel Yayıncılık.