

IM 116 TECHNICAL DRAWING FOR CIVIL ENGINEERS		CIVIL ENGINEERING	
Semester	Credit Structure		
	Lecture	Recitation	Laboratory
2	2	2	0
Language	Turkish		
Compulsory / Elective	Compulsory		
Prerequisites	-----		
Catalog Description	Introduction to AutoCAD. Commands used in technical drawing. Technical drawing rules. Geometric constructions. Orthographic and perspective (isometric and oblique) drawing, sectioning, dimensioning. Civil engineering applications.		
Course Objectives	Interpretation of Civil Engineering drawing and improve drawing skills about civil engineering drawing, learning of general purpose drawing program ACAD 2000 and Civil engineering drawing with ACAD 2000.		
Course Outcomes	Two and three dimensional object drawing and interpretation of objects, improve of design and interpretation ability, investigation and interpretation of civil engineering drawing and project.		
Textbook and /or References	Thomas E French, Charles J. Vierck, Robert J. Foster, "Engineering Drawing and Graphic Technology", McGraw Hill		
Assessment Criteria		Quantity	Percentage
	Midterm Exams	2	60
	Quizzes	3	10
	Homeworks	48	30
	Projects	-	-
	Term Paper	-	-
	Laboratory Work	-	-
	Other	-	-
	Final Exam	1	50
Course Category by Content (%)	Mathematics and Basic Sciences	25	
	Engineering Science	25	
	Engineering Design	50	
	Social Sciences	-	
Instructors	Öğr. Gör. Dr. Nihat Eroğlu, Öğr. Gör. Dr. Bengi Aykaç		

COURSE PLAN

Week	Topics
1	Introduction and promotion of Computer Laboratory Introduction to computer laboratory specification and rules; Introduction to ACAD 2000 Technical Drawing Program
2	Geometric Construction Geometric Construction Rules; Geometric Construction Drawing with ACAD 2000 program
3	1. Mid Term
4	Orthographic Projection Theory and Rules; Orthographic views; Six main views; Line type using Orthographic drawing; Hidden Lines; Center Lines; Orthographic Drawing with ACAD 2000
5	Sectional views Sectional views rules; Type of Section; Hatching Rules of Sectioning ;Sectional view drawing with ACAD 2000 program
6	Isometric drawing Theory and Rules; Type of isometric drawing; Isometric section drawing; Isometric Drawing with ACAD 2000 program
7	2. Mid Term
8	Dimensioning and Detailing Dimensioning with ACAD 2000
9	Example Civil Engineering Drawing with ACAD 2000

RELATIONSHIP BETWEEN THE COURSE AND DEPARTMENT CURRICULUM

Program Outcomes		1	2	3
1	An ability to apply knowledge of mathematics, science, and engineering		X	
2	An ability to design and conduct experiments, as well as to analyze and interpret data	X		
3	An ability to design a system, component, or process to meet desired needs			X
4	An ability to function on multi-disciplinary teams	X		
5	An ability to identify, formulate, and solve engineering problems	X		
6	An understanding of professional and ethical responsibility		X	
7	An ability for effective written and oral communication in Turkish and English		X	
8	The broad education necessary to understand the impact of engineering solutions in a global and societal context			X
9	A recognition of the need for, and ability to engage in life-long learning			X
10	A knowledge of contemporary issues		X	
11	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice			X
Contribution of the course : 1:None 2:Partially 3:Completely				