COURSE DESCRIPTION FORM								
Course Code and Title	CE116 TECHNICAL DRAWING FOR CIVIL ENGINEERING							
Semester	2							
Catalog description	Introductionto Technical Drawing (defition, instruments, importance in theindustry), ComputerAided Design (CAD); Introductionto ACAD 2016, Geometric Objects Drawingwith ACAD 2016, LineTypeandPropertiesUsed in Technical Drawing, Definition of Projection, ProjectionMethods, ISO E. Method, OrthographicView, OrthographicViewDrawingwith ACAD 2016, Rules of DrawingHiddenLines , SampleDrawingwith ACAD 2016, AxonometricProjection, SectionViews(definition, type), Rules of Sectioning, Hatching, Rules of Dimensioning, SampleDrawing in CivilEngineeringwith ACAD 2016.							
Required reading	Thomas E French, Charles J. Vierck, Robert J. Foster, "EngineeringDrawingandGraphicTechnology", McGrawHill.							
Recommendedreading	Ali Pancarcı, M. Emin Öcal, "Yapı Teknik Resmi Cilt I-II", Birsen Yayınevi.							
ECTS	4							
Prerequisites and co-requisites	No prerequisite.Required attendance to lectures is at least 70% of total term hours.							
Compulsory/Elective	Technical compulsory course							
Language of instruction	English							
Aim of course	Drawingandunderstanding of 2D and 3D objects Obtainingtheabilitytounderstandanddesign in 3D objects							
Learning outcomes of the course unit	Drawingandunderstanding of 2D and 3D objects Obtainingtheabilitytounderstandanddesign in 3D objects Understanding, interpretationandexaminationskills of civilengineeringprojectsanddrawings							
Mode of delivery	The mode of delivery of this course is face to face with usage of computers in the laboratory.							
Course content	 Week: Introductionto Technical Drawing (defition, instruments, importance in theindustry), ComputerAided Design (CAD); Introductionto ACAD 2016 Week: Geometric Objects Drawingwith ACAD 2016 Week: Geometric Objects Drawingwith ACAD 2016 Week: LineTypeandPropertiesUsed in Technical Drawing Week: Definition of Projection, ProjectionMethods, ISO E. Method Week: OrthographicView, OrthographicViewDrawingwith ACAD 2016. Week: Rules of DrawingHiddenLines , SampleDrawingwith ACAD 2016 Week: Rules of DrawingHiddenLines , SampleDrawingwith ACAD 2016 Week: Rules of DrawingHiddenLines , SampleDrawingwith ACAD 2016 and Midterm Week: SectionViews(definition, type), Rules of Sectioning, Hatching, Rules of Dimensioning Week: SampleDrawing in CivilEngineeringwith ACAD 2016 Week: SampleDrawing in CivilEngineeringwith ACAD 							

	2016											
	15. Hafta: SampleDrawing in CivilEngineeringwith ACAD 2016											
Planned learning activities and teaching	2 hours of theoretical lectures per week(2+2)											
methods	2 hours of practical lessons per week											
	Web search and library use											
	Report preparation											
	Midterm exam and required works											
	Final exam and required works								_			
Assessment methods and criteria		-		Quantity	I	Percentage (%)						
	Mic	l-terms		1				60				
	Ass	ignment		-								
	Exe	rcises		-								
	Pro	jects		-								
	Pra	ctice		-								
	Qui	Z		-								
	Cor	tribution of		-			60					
	In-t	erm Studies to										
	Ove	erall Grade %										
	Cor	tribution of		-		40						
	FIIIa to C	al Examination										
	(%)											
	Atte	endance										
Workload	7 100	Efficiency	Total Week		Wee	Total						
W OI MOUU				Count	Duration		Workload					
	The		- 6	14	(in ho	ur)	in S	emes	ter			
	Cour	rse Per Week	OI	14	2		28					
	Prac	ticing Hours of Cours	se	14	14 2		28					
	Per	Week		14	0		0					
	Sear	ching in Internet and	14	0		0						
	Libr	ary		14	1		1.4					
	Mate	erials		14	1		14					
	Prep	aring Reports	14	0			0					
	Prep	aring Presentation	14	0		0						
	Pres	entation Term and Studying f	14	8		8						
	Mid	-Term	1			0						
	Fina	l and Studying for Fi	1	15		15						
	Othe	2 1 1 X / 1 1 -		0			0					
	Tota	Workload / 25:					3.72					
	ECT	S:						4				
Course's contribution to program	No	Program Learning	Outco	mes	1	2	3	4	5			
	1	Adequate knowl	ledge	in mathematic	cs,			Х				
		science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied knowledge in these areas in complex engineering problems.										
	2	Ability to identif	fy, for	mulate, and sol	ve X							
		complex civil eng	ineerin	ig problems; abili	ity nd							
		to select and apply proper analysis and modeling methods for this purpose										
		modeling methods	for thi	s purpose.								
	3	modeling methods Ability to design a	for thi	s purpose. lex system, proces	ss, X							
	3	modeling methods Ability to design a device or product	for thi comp under	s purpose. lex system, proces realistic constrain	ss, X							
	3	modeling methods Ability to design a device or product and conditions, in desired result: abili	for thi comp under such a	s purpose. lex system, proces realistic constrain way as to meet t	ss, X nts he gn							
	3	modeling methods Ability to design a device or product and conditions, in desired result; abili methods for this pu	for thi a comp under such a ity to a urpose.	s purpose. lex system, proces realistic constrain way as to meet t pply modern desi	ss, X nts he gn							
	3	modeling methods Ability to design a device or product and conditions, in desired result; abili methods for this pu Ability to devise,	for thi a comp under such a ity to a urpose.	s purpose. lex system, proces realistic constrain way as to meet t pply modern desi t, and use mode	ss, X nts he gn				X			

Name of lecturer(s) and contact	Asso	c. Prof. Dr. NihatEroğlu (<u>enihat@gazi.e</u>	edu.t	<u>r</u>),			
	17	Awareness of the legal consequences of engineering solutions.					
	17	effects of engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering.		X			
	15 16	Awareness in entrepreneurship, innovation; knowledge about sustainable development. Knowledge about the global and social					
	14	Knowledge about business life practices such as project management, risk management, and change management.			Х		
	13	responsibility. Knowledge on standards used in civil engineering practice.				X	
	12	Consciousness to behave according to ethical principles and professional and ethical			Х		
	11	ability to access information, to follow developments in science and technology, and to continue to educate him/herself.		21			
	11	effective presentations, and give and receive clear and intelligible instructions.		x			
	10	to Common European Framework of Reference. Prepare design and production reports, make					
	9	written reports. Knowledge of English of B1 level according		X			
	8	Ability to communicate effectively in Turkish, both orally and in writing; ability to write effective reports and comprehend		X			
	7	disciplinary and multi-disciplinary teams. Ability to work individually.				Х	
	6	problems or discipline specific research questions. Ability to work efficiently in intra-				X	
	5	Ability to design and conduct experiments, gather data, analyze and interpret results for investigating complex civil engineering	Х				
		in civil engineering practice; ability to employ information technologies and to use at least one computer programming language effectively.					
		and solving complex problems encountered					