



**T.C. ESKİŞEHİR OSMANGAZI UNIVERSITY**  
**ARCHITECTURE AND ENGINEERING FACULTY**  
**MECHANICAL ENGINEERING DEPARTMENT**

**COURSE INFORMATION FORM**

SEMESTER	SPRING
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COURSE CODE	151818671-151838671	COURSE NAME	Computer Aided Design
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Laboratory	Credit	ECTS	TYPE	LANGUAGE
8	3	0	0	3	6	COMPULSORY ( ) ELECTIVE (x)	Turkish
<b>COURSE CATEGORIES</b>							
Basic Science	Basic Engineering	<b>Mechanical Engineering</b> [if it contains considerable design, mark with (√)]				Social Science	
		(√)					
<b>ASSESSMENT CRITERIA</b>							
<b>MID-TERM</b>		<b>Evaluation Type</b>		<b>Quantity</b>		<b>%</b>	
		Mid-Term					
		Quiz					
		Homework		2		40	
		Project					
		Report					
Others (Laboratory)							
<b>FINAL EXAM</b>		Written		1		60	
<b>PREREQUISITE(S)</b>							
<b>COURSE DESCRIPTION</b>		Learning AutoCAD and Solid EDGE design programs and Fundamentals of CAD.					
<b>COURSE OBJECTIVES</b>		Learning fundamentals of 2 and 3D design and parametric modelling in computer.					
<b>ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUCATION</b>		Understand design programs and design criterias.					
<b>COURSE OUTCOMES</b>		Learning AutoCAD and Solid EDGE software in advanced level, 2 and 3 dimension design theory and to understand the importance of computer aided design in production.					
<b>TEXTBOOK</b>		The design Manual, David Withbread, New South Publishing, 2009.					
<b>OTHER REFERENCES</b>		Autocad and solidedge training videos					
<b>TOOLS AND EQUIPMENTS REQUIRED</b>		Computer and projector.					

COURSE SYLLABUS	
WEEK	TOPICS
1	Introduction, importance of CAD, requirements for CAD
2	Drawing in AutoCAD (Grid, Snap, Ortho, Osnap),
3	Draw and Edit commands
4	Adding text on draw, isometric draw,
5	Dimensions
6	Section views,
7	Block and engineering libraries.
8	Midterm Exam
9	Midterm Exam
10	3D draw modelling, Solids
11	3D draw modelling, Solids
12	3D modelling, Solids
13	3D modelling, Sheet Metals
14	3D modelling, Welding
15,16	Final Exam

NO	PROGRAM OUTCOMES	3	2	1
1	Sufficient knowledge of engineering subjects related with mathematics, science and <b>Mechanical engineering</b> ; an ability to apply theoretical and practical knowledge on solving and modeling of <b>Mechanical engineering</b> problems.	X		
2	Ability to determine, define, formulate and solve complex <b>Mechanical engineering</b> problems; for that purpose an ability to select and use convenient analytical and experimental methods.		X	
3	Ability to design a complex system, a component and/or an engineering process under real life constrains or conditions, defined by environmental, economical and political problems; for that purpose an ability to apply modern design methods.	X		
4	Ability to develop, select and use modern methods and tools required for <b>Mechanical engineering</b> applications; ability to effective use of information technologies.	X		
5	In order to investigate <b>Mechanical engineering</b> problems; ability to set up and conduct experiments and ability to analyze and interpretation of experimental results.		X	
6	Ability to work effectively in inner or multi-disciplinary teams; proficiency of interdependence.		X	
7	Ability to communicate in written and oral forms in Turkish/English; proficiency at least one foreign language.			X
8	Awareness of life-long learning; ability to reach information; follow developments in science and technology and continuous self-improvement.	X		
9	Understanding of professional and ethical issues and taking responsibility			X
10	Awareness of project, risk and change management; awareness of entrepreneurship, innovativeness and sustainable development.			x
11	Knowledge of actual problems and effects of engineering applications on health, environment and security in global and social scale; an awareness of juridical results of engineering solutions.			X
1:None. 2:Partially contribution. 3: Completely contribution.				

Prepared by: Prof. Dr. Nejat KIRAC

Date:

Doç. Dr. Osman Nuri ÇELİK

Signature(s):

