



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

COURSE INFORMATION FORM

SEMESTER Spring

COURSE CODE	151812207	COURSE NAME	TECHNICAL DRAWING II (B)
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SEMESTER	WEEKLY COURSE PERIOD			COURSE OF			
	Theory	Practice	Laboratory	Credit	ECTS	TYPE	LANGUAG E
2	4	-	-	4	6	COMPULSORY (X) ELECTIVE ( )	TURKISH
<b>COURSE CATAGORY</b>							
Basic Science		Basic Engineering		Engineering Subjects [if it contains considerable design, mark with (√) ]			Social Science
				(√)			
<b>ASSESSMENT CRITERIA</b>							
<b>MID-TERM</b>				Evaluation Type		Quantity	%
				Mid-Term		1	%30
				Quiz		3	%15
				Homework			
				Project			
				Report			
				Others (.....)			
<b>FINAL EXAM</b>					1	%55	
<b>PREREQUIEITE(S)</b>							
<b>COURSE DESCRIPTION</b>				Surface Involutes, Cross-sections, Dimension Tolerances and Fittings, Geometric Tolerances, Specification of surface, Screws and screw elements, Keyed shaft-hub joints, Pin, Pin-Pivot, joiner pin joints, Springs, Gear Wheels, Bearings, weld and rivet joints.			
<b>COURSE OBJECTIVES</b>				Surface involute ability for metal sheets ability for description of surface with.symbols ability for geometric and dimensional tolerances;recognition of machiene elements, drawing, drawing and comprehension ability, gain in ability for drawings and comprehension of assembly drawings.			
<b>ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION</b>				Teaching sizing and tolerancing of work pieces, application of tolerancing methods recognition of machine elements and assemblyand disassembly drawings.			
<b>COURSE OUTCOMES</b>				<ol style="list-style-type: none"> <li>1. Can <b>recognise</b> standard machine elements</li> <li>2. Can intreparate sizing, principles,specification of surfaces, geometric and dimensional tolerances.</li> <li>3. Can <b>apply</b> necessary symbols to drawings for sizing, specification of surfaces and tolerances</li> <li>4. Can <b>associate</b> machine parts with each other used in constructions</li> <li>5. Can <b>assemble</b> the machine parts with ah other during construction with syntesis phase.</li> <li>6. Can <b>value</b> designed mechanisms for the development in production and technology.</li> </ol>			
<b>TEXTBOOK</b>				<ol style="list-style-type: none"> <li>1. KIRAÇ, N., Teknik Resim (4.Basım), Dora Basım Yayın Dağıtım, Bursa, 2011.</li> <li>2. KIRAÇ, N., Makine Meslek Resmi, Dora Basım Yayın Dağıtım, Bursa, 2011.</li> </ol>			

<b>OTHER REFERENCES</b>	<p>1. BAĞCI, M., Teknik Resim, Birsen Yayınevi, İstanbul, 2001.</p> <p>2. ÖZDAŞ, M.N., GEDİKTAŞ, M., Teknik Resim (3.Basım), İ.T.Ü. Makine Fakültesi Ofset Atölyesi, İstanbul, 1981.</p> <p>3. ŞEN, İ.Z., ÖZÇİLİNGİR, N., Makine Meslek Resmi, Ege Reklam Basım Sanatları, İstanbul, 2000.</p>
<b>TOOLS AND EQUIPMENTS REQUIRED</b>	Data projector

<b>COURSE SYLLABUS</b>	
<b>WEEK</b>	<b>TOPICS</b>
1	Cross sections, surface involuts, sample applications.
2	Sizing; Dimension Tolerances and fittings, Geometric Tolerancs; sample applications
3	Surface quality, sample applications
4	Screws and screwed element,.
5	Screws and screwed element,.; sample applications Shaft-hub joints
6	Shaft-hub joints, sample applications
7	Pins, joiner pin, pin pivots, drawings of pin, pin pivot and joiner pin joint, sample applications.
8	Mid-Term Examination
9	Mid-Term Examination
10	Gear wheels, sample applications
11	Gear wheels, sample applications
12	Springs, sample applications
13	Bearings, sample applications
14	Weld joints, rivet joints, sample applications
15,16	Final Exam

<b>NO</b>	<b>PROGRAM OUTCOMES</b>	<b>3</b>	<b>2</b>	<b>1</b>
1	Sufficient knowledge of engineering subjects related with mathematics, science and own branch; an ability to apply theoretical and practical knowledge on solving and modeling of engineering problems.	[ ]	[X]	[ ]
2	Ability to determine, define, formulate and solve complex engineering 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 engineering applications; ability to effective use of information technologies.	[X]	[ ]	[ ]
5	In order to investigate engineering 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:** Assist. Prof. Dr. Koray KILIÇAY

**Date:**

**Signature(s):**