	INTRODUCTIO	ON TO	MACHINE ELEMENTS
1	Course Title:	INTROD	UCTION TO MACHINE ELEMENTS
2	Course Code:	MAK209	2
3	Type of Course:	Optional	
4	Level of Course:	First Cyc	cle
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	No	
12	Language:	Turkish	
13	Mode of Delivery:	Face to f	face
14	Course Coordinator:	Dr. Ögr.	Üyesi GÜLTEKIN KARADERE
15	Course Lecturers:	Doç. Dr.	Gültekin KARADERE
16	Contact information of the Course Coordinator:	224-294	e@uludag.edu.tr 1977 Makine Müh. Bölümü, 16059 Bursa.
17	Website:		
18	Objective of the Course:	To perfo	luce the machine elements in machine design. rm strength and sizing calculations of machine elements by sic engineering sciences.
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Determination of stresses in machine elements
		2	Design of welded and bolted joints
		3	Design of shaft-to-hub connections
		4	Design of springs
		5	Design of axles and shafts
		6	Design of sliding and rolling bearings
		7	Design of couplings and clutches
		8	Design of belt drive mechanisms
		9	Design of gear mechanisms
0.1	Course Comtant	10	
21	Course Content:	0-	Nurse Contents
Week	Theoretical	Co	Practice
vveek 1	Stress analysis		Flactice
2	Static loading		
3	Variable loading		
4	Welded joints		
5	Bolted joints		
	Dolled Johns		

6	Shaft-to-hub connections								
7	Springs								
8	Repeating courses and midterm exa	m							
9	Axles and shafts								
10	Sliding and rolling bearings								
11	Couplings and clutches								
12	Belt drive mechanisms								
13	Gear mechanisms								
14	Gear mechanisms								
22	Textbooks, References and/or Other		4 1		1 0017				
	Materials:		 Lecture notes (in Turkish), Gültekin Karadere, 2017-2018. Makina Elemanları Teori, Konstrüksiyon ve Problemler (in Turkish) Cahit Kurbanoğlu, 2016. Makina Elemanları ve Konstrüksiyon Örnekleri (in Turkish) Vol. 1,2 and 3, Talat Tevrüz, 2015. Makina Elemanları, Vol. 1/2(in Turkish), Erdem Koç, 2015/2013. Makina Elemanları Çözümlü Problemler (in Turkish), Erdem Koç, 2015. Makina Elemanları Problemleri (in Turkish), İsfendiyar Bakşıyev, Burhan Selçuk, 2012. Makine Elemanları (in Turkish), Osman Yazıcıoğlu, 2011. Makine Elemanları ve Konstrüksiyon Örnekleri (in 						
Activit	es		Number	Total Work Load (hour)					
					, ,				
Theore	ical		Mischke, R.G. Budy	as, 2004.	28.00				
Practic	als/Labs		0	0.00	0.00				
Self stu	Assesment dy and preperation	I	14	2.00	28.00				
Homew	vorks		10	2.00	20.00				
Pridiect	n Exam	1	30,00	0.00	0.00				
Field S	tudies		0	0.00	0.00				
Midter	NGKAMSject	10	10.00	7.00	7.00				
Others			0	0.00	0.00				
Final E	xams	12	100.00	7.00	7.00				
	Vork Load				90.00				
APRU	ବୋହିଣ ି / 30 hr				3.00				
ECTS (Credit of the Course				3.00				
Total			100.00						
Measu	rement and Evaluation Techniques U	sed in the							
24	ECTS / WORK LOAD TABLE	•							
25	CONTRIBUTION		RNING OUTCOMES	TO PROGRAM	име				
	PQ1 PQ2 PQ3 PQ4 PQ5 PQ	6 PQ7 P	08 PQ9 PQ1 PQ11	PQ12 PQ1 PQ14	4 PQ15 PQ16				

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖК9	4	4	4	0	0 ning 0	0 Obje	0 ctive	0	0 PQ: P	0	0	0 alifica	0	0	0 y High	0
ÖK7	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0