	STATICS ST	RENG	GTH OF MATERIALS						
1	Course Title:	STATICS STRENGTH OF MATERIALS							
2	Course Code:	MIM2005							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	2							
6	Semester:	3							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	1.00							
9	Practice (hour/week):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	-							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Doç.Dr. BILAL BAĞBANCI							
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	mbilal@uludag.edu.tr tel:294 21 47							
17	Website:								
18	Objective of the Course:	This course aims to teach how structures formed and how it carried different loads. Besides teach how supplied the balance and stability of structures, teach how to draw normal force, shearing force and moment grafics at simply supported beams and frames, cantilever beams and frames, simply supported beams and frames with overhangs, compound (Hung-span) beams under load and teach how found the relocation and deformation amount of the structures							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	To teach general rules of static, stability, the behaviour of structures under loads						
		2	To understand the behaviour of the structural elements under mechanical effects						
		3	To teach the loads and the colculation of stresses in structures						
		4							
		5							
		6							
		7							
		8							
		9 10							
21	Course Content: Course Content:								
Week	Theoretical Practice								
1	Trigonometric expressions and vector	ors	Questions and solutions						
2	Vectors and rules of static		Questions and solutions						
-									

3 Su	Supporting systems and loads								Questions and solutions								
4 Co	Compound (Hung-span) beams							Qu	Questions and solutions								
5 Thi	Three-pinned arches and frames							Qu	Questions and solutions								
6 Tru	Trusses							Qu	Questions and solutions								
7 Ce	Centroids and cables						Qu	Questions and solutions									
8 Re	Repeating courses and midterm exam																
	Stress and strain, axial, shearing and moment graphics						nt Qu	Questions and solutions									
10 Axi	o							Qu	Questions and solutions								
11 Th	Three dimensional stress, shear force							Qu	Questions and solutions								
12 Mo	Moment of Inertia							Qu	Questions and solutions								
13 Be	Bending and torsion							Qu	estion	s and s	solution	S					
14 Ela	stic cu	urve						Qu	estion	s and s	solution	S					
	Textbooks, References and/or Other Materials:						ST Oğ Mü Ka İsta Öz Ka	Karataş, H., İşler, Ö., 1987, "Mühendislik Mekaniğinde STATİK Problemleri", Çağlayan Kitabevi, İstanbul. Oğuz, S., 1994, "Teknik Mekanik (I) Statik" Balıkesir Üni. MühMim. Fak. Yayınları, Balıkesir. Karataş, H., 1988, "Mukavemet", Çağlayan Kitabevi, İstanbul. Özbek, T., 1978, "Mukavemet", Birsen Yayınevi, İstanbul. Kadıoğlu, N., Engin, H., Bakioğlu, M., 1989, "Mukavemet Problemleri", Beta Yayınları, İstanbul									
Activites					1	Number			Dura	Duration (hour)			Total Work Load (hour)				
Midtorenica	MiddoronicExam 1					40	401040			1.00			14.00				
Practicals/I	racticals/Labs						1	14			2.00			28.00			
Beinstwart	nstury and preperation 0					0.9	0 99			1.00			14.00				
Homework	works						0	0			0.00			0.00			
更的地	ts 2						10	100.00			0.00			0.00			
Field Studi							0	0			0.00			0.00			
Midterm ex	m exams						1	1			30.00	30.00			30.00		
Others							0	0			0.00			0.00			
FRIal Exam	xams					10	10ρ.00			34.00			34.00				
	Work Load														120.00		
Total work	ourse etal work load/ 30 hr 24 ECTS / WORK LOAD TABLE CTS Credit of the Course													4.00			
ECTS Crea	dit of t	he Co	urse												4.00		
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	4	3	5	4	3	2	4	4	5	5	0	0	0	0	0	
ÖK2	5	3	2	5	4	3	3	4	4	4	5	0	0	0	0	0	
ÖK3	5	3	2	5	4	3	3	4	4	4	5	0	0	0	0	0	
			-0: L	earn	ning C)bjec	tive	s F	Q: P	rogra	im Qu	alifica	tions	5			

Contrib ution	1 very low	2 low	3 Medium	4 High	5 Very High
Level:					