STRUCTURAL ANALYSIS											
1	Course Title:	STRUCT	FURAL ANALYSIS								
2	Course Code:	BSM352	3-S								
3	Type of Course:	Optional									
4	Level of Course:	First Cyc	le								
5	Year of Study:	3									
6	Semester:	5									
7	ECTS Credits Allocated:	3.00									
8	Theoretical (hour/week):	1.00									
9	Practice (hour/week):	2.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to f	ace								
14	Course Coordinator:	Doç.Dr. l	Erkan Yaslıoğlu								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	yasli@ul Biyosiste	udag.edu.tr, 0224-2941624, U.Ü. Ziraat Fakültesi m Mühendisliği Bölümü, Görükle, Bursa.								
17	Website:										
18	Objective of the Course:	To train s analysis,	students on understanding of basic principles of structural estimation methods of isostatic and hyperstatic systems								
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Explain load-carrying mechanisms and calculation methods								
		2	Explain external influences on structural systems								
		3	Calculate reaction forces.								
		4	Calculate normal force, shearing force and moment in load-bearing systems								
		5	Draw normal force, shearing force and moment diagrams in isostatic systems.								
		6	Determine relocation and deformation amount of the structures under loads.								
		7	Solve problems about different structural systems under the complex loading.								
		8	Analyse hyper-static systems.								
		9									
		10									
21	21 Course Content:										
14/ 1	Course Content:										
vveek	Introduction to the attractured and had	、 、									
	objectives of structural design.	», 	structural design.								
2	Structural analysis steps, statical assumptions and loads		Examples								
3	Stability equations, support types, classification of load-bearing system	S.	Examples								

4	Beam suppo	ams, portal frames and reaction forces on pport									Examples										
5	Exam beam	amples on estimation of reaction forces of ams, and portal frames									Examples										
6	Analy	alysis of internal and external forces								Examples											
7	Relati force	lationship among linear load, shearing ce and bending moment									Examples										
8	Repea	peating courses and midterm exam																			
9	Relati force	lationship among linear load, shearing ce and bending moment									Examples										
10	Reloc longitu mome	location and deformation, ngitudinal/shear force, bending/torsional oment									Examples										
11	Reloc longitu mome	location and deformation, ngitudinal/shear force, bending/torsional oment									Examples										
12	Soluti metho	on o od.	of hyp	er-sta	tic sys	stems v	with C	ross	Ex	ample	s										
13	Soluti metho	lution of hyper-static systems with Cross ethod.									S										
14	Soluti metho	lution of hyper-static systems with Cross									Examples										
22	Textbooks, References and/or Other Materials:																				
23	Asses	sme	nt																		
Activites									Numb	er		Dura	ition (hour)	Load (hour)						
していていていていていていていていていていていていていていていていていていてい									0.0	18			1.00			14.00					
Practicals/Labs									14			2.00			28.00						
ទីគ្រុន្តែនុងរដ្ឋកូនnd preperation 1								60	160			2.50			32.50						
Homeworks								(C			0.00			0.00						
Content of Term (Year) Learning Activities to								40	00			0.00			0.00						
Field Studies								(C			0.00			0.00						
Olivotteritoruteoxaroon/sFinal Exam to Success Grade									60	60100				6.00			6.00				
Others	Others									0					0.00						
Measurement and Evaluation Techniques Used in the									ne í	1			6.00		6.00						
Total Work Load										92.50											
Total workidae // 30/ ARK LOAD TABLE										2.88											
ECTS	ECTS Credit of the Course									3.00											
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																					
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16				
ÖK1	5		1	1	1	5	1	1	2	1	1	2	0	0	0	0	0				
ÖK2	5		1	1	1	5	1	1	1	1	1	1	0	0	0	0	0				
ÖK3	5		1	1	1	5	1	1	2	1	1	1	0	0	0	0	0				
ÖK4	5		1	1	1	5	1	1	1	1	1	1	0	0	0	0	0				

ÖK5	5	1	1	1	5	1	1	1	1	1	1	0	0	0	0	0
ÖK6	5	1	1	1	5	1	1	1	1	1	1	0	0	0	0	0
ÖK7	5	1	1	1	5	1	1	1	1	1	1	0	0	0	0	0
ÖK8	5	1	1	1	5	1	1	1	1	1	1	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3 Medium				4 Higl	h	5 Very High					