	STATICALLY IN	IDETE	RMINATE STRUCTURES							
1	Course Title:	STATIC	ALLY INDETERMINATE STRUCTURES							
2	Course Code:	BSM503	5							
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	cle							
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	6.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	face							
14	Course Coordinator:	Prof. Dr.	Erkan Yaslıoğlu							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	e-posta : yasli@uludag.edu.tr Telefon: 0 224 2941624 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampusu, 16059, Nilüfer/BURSA								
17	Website:									
18	Objective of the Course:	It is aimed that students who understood isostatic systems to be gained knowledge on; effects of material geometry, strain and deformation, compliance with the geometric and strain and deformation equation								
19	Contribution of the Course to Professional Development:	It contributes to the safe design of statically indeterminate structures.								
20	Learning Outcomes:									
		1	Classifying loads on a structural system							
		2	Explaining behaviour of load-carrying mechanisms							
		3	Calculating normal force, shearing force and moment in load-bearing systems							
		4	Classifying load-bearing systems in terms of static conditions							
		5 Using contemporary techniques and calculation tools required for engineering applications								
		6 Calculating loads on a hyperstatic-system								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
	Theoretical		Practice							
1	Introduction, steps for structural ana assumptions for structural analysis, of hyperstatic-system									

	Relatior force ar					sheari	ng											
		Relationship among linear load, shearing force and bending moment																
4	Truss s	russ systems																
5	Hyperst system	Hyperstatic-systems, loads on a hyperstatic- system																
6	Analysis	Analysis of hyperstatic-systems,																
-	Relocation and deformation calculations in beams and portal frames																	
-	Relocation and deformation calculations in beams and portal frames																	
9	Relocat	ion and	d defoi	matio	on in tru	uss sy	stems	;										
	Cross m	Calculation methods for hyperstatic systems, Cross method																
	Calculat Cross m	nethod																
	Cross m	Calculation methods for hiperstatic systems, Cross method																
	Calculat Biro me																	
	Calculation methods for hyperstatic systems, Biro method																	
22	Textboo	oks, Re	eferenc	es an	d/or O	ther		Çá	akıroğl	u, A. ve	e E. Çet	meli 19	90. Ya	apı Stati	ği Cilt 2.	Beta		
Activites							Number				Duration (hour)			Total Work Load (hour)				
Theore	tical								Т ММОВ Inşaat Mühendələr O Ahkara.					dası Ankara کولوچi Yayını,				
Practica	als/Labs								0				0.00			0.00		
Self stu	dy and p	repera	ation						Kulupnanesi, Sayi.o45,							84.00		
Homew	/orks								5			7.00			35.00			
Projects	S	0 401				R			0			0.00			0.00			
Field St	tudies								0			0.00			0.00			
<b>Øidz</b> ern	n exams					0		0.	0. <b>0</b> 0			0.00			0.00			
Others									0			0.00			0.00			
Final Ex	xams					1		10	100.00			16.00			16.00			
Total W	/ork Loa	d												177.00				
Cotatrilo	Cotatribrotio hoad/Tanh (Year) Learning Activities to								0.00					5.90				
ECTS Credit of the Course															6.00			
	ution of	Final E	ixam to	Suc	cess G	irade		_	0.00									
Total								10	0.00									
Measur Course	ement a	nd Eva	aluatio	n Tec	hnique	s Use	d in th	ne Ho	omewo	ork, fina	al exam.							
24	ECTS	/ WO	RK L	OAD	TAB	LE												
25			CON	TRIE	BUTIC	ON O			-	OUT( ATIC	COME: DNS	S TO I	PROC	GRAM	ME			
	PQ <sup>2</sup>	I PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
										0			3					
ÖK1	3	3	5	1	4	2	2	2	3	4	3	1	0	0	0	0		
ÖK2	4	2	3	1	3	3	2	2	3	5	3	1	0	0	0	0		

ÖK3	4	3	5	1	5	3	1	2	3	4	3	1	0	0	0	0
ÖK4	5	4	5	3	4	4	1	2	4	5	5	1	0	0	0	0
ÖK5	3	4	5	2	5	3	1	2	3	4	4	1	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution				2 Iow		3	Medi	um	4 High			5 Very High			