	STATICALLY IN	IDETE	RMINATE STRUCTURES						
1	Course Title:	STATICA	ALLY INDETERMINATE STRUCTURES						
2	Course Code:	BSM503	5						
3	Type of Course:	Optional							
4	Level of Course:	Second	Cycle						
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	ace						
14	Course Coordinator:	Doç. 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:								
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:						
Week	Theoretical		Practice						
1	Introduction, steps for structural ana assumptions for structural analysis, of hyperstatic-system	lysis, definition							

2	Relation force and	ship a d benc	mong l ling m	linear omen	load, s t	sheari	ng										
3	Relation force and	load, s t	sheari	ng													
4	Truss sy	Truss systems															
5	Hypersta system	Hyperstatic-systems, loads on a hyperstatic- system															
6	Analysis	Analysis of hyperstatic-systems,															
7	 Relocation and deformation calculations in beams and portal frames 																
8	Relocation beams a	on and nd po	l defor rtal fra	matio mes	n calcı	ulation	is in										
9	Relocation	on and	d defor	matio	n in tru	iss sy	stems										
10	Calculati Cross m	on me ethod	thods	for hy	persta	tic sys	stems,	,									
11	Calculati Cross m	on me ethod	thods	for hy	/persta	tic sys	stems,	,									
12	Calculati Cross m	on me ethod	thods	for hi	perstat	ic sys	tems,										
13	Calculation methods for hyperstatic systems, Biro method																
14	Calculati Biro met	on me hod	thods	for hy	/persta	tic sys	stems	,									
22	Textboo	ks, Re	ferenc	es an	d/or O	ther		Ça	kıroğlı	u, A. ve	e E. Çet	meli 19	90. Ya	ipi Stati	ği Cilt 2.	Beta	
Activit	Activites						1	Number			Duration (hour)			Total Work Load (hour)			
Theoretical							ТМ	TMMOB Inşaat Mühenc				Işleri Odası Ankara			Şubesi Yayını,		
Practicals/Labs							_IAN C	0				0.00			0.00		
Self study and preperation								Tru	iupnai 14	iesi, S	ауг.о4э	, <u>Is</u> tano 6.00	ıştaribul. 6.00			84.00	
Homeworks								5	5				7.00			35.00	
Project	S	,	THEO			R			0			0.00			0.00		
Field S	tudies							C	0			0.00			0.00		
Qidz ern	n exams					0		0.0	0. 0 0			0.00	0.00				
Others								C	0			0.00			0.00		
Final E	xams					1		101	100.00			16.00			16.00		
Total W	Total Work Load														177.00		
Cotatributionoad/Tachh (Year) Learning Activities to								0.0	00					:	5.90		
ECTS Credit of the Course															6.00		
Contrib	Contribution of Final Exam to Success Grade																
Measur	rement ar	nd Eva	luatior	n Tecl	hnique	s Use	d in th	e	0.00								
Course																	
24	ECTS				TAR												
	ECTS /	WO		OAD	TAB							0 7 0					
25	ECTS	' WO	rk L Con	oad Trib		LE N OI	F LE/	ARN QUA	ing (Lific	OUTC ATIO	COME: ONS	S TO I	PROC	GRAM	ME		
25	ECTS /	PQ2	RK L CON PQ3	OAD TRIB PQ4	TAB UTIC PQ5	LE N OI PQ6	F LEA	ARN QUA PQ8	ING LIFIC PQ9	OUTC ATIO PQ1	COMES NS PQ11	S TO	PROC	PQ14	ME PQ15	PQ16	
25 ӦК1	ECTS / PQ1	7 WO PQ2 3	RK L (CON PQ3 5	OAD TRIE PQ4	TAB BUTIC PQ5 4	LE N OI PQ6 2	F LE/ 0 PQ7 2	ARN QUA PQ8 2	ING LIFIC PQ9	OUTC ATIO PQ1 0 4	PQ11	S TO PQ12	PROC PQ1 3	PQ14	PQ15	PQ16 0	

ÖK3	4	3	5	1	5	3	1	2	3	4	3	1	0	0	0	0
ÖK4	4	3	5	2	4	3	1	2	2	4	4	1	0	0	0	0
ÖK5	5	4	5	3	4	4	1	2	4	5	5	1	0	0	0	0
ÖK6	3	4	5	2	5	3	1	2	3	4	4	1	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3 Medium			4 High			5 Very High					