	COMBIN	IATOF							
1	Course Title:	COMBIN	JATORIAL GEOMETRY						
2	Course Code:	MAT630	9						
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:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Prof. Dr.	BASRİ ÇELİK						
15	Course Lecturers:	Doç. Dr. Atilla AKPINAR Dr. Öğr. Üyesi Fatma ÖZEN ERDOĞAN							
16	Contact information of the Course Coordinator:	Prof.Dr.Basri ÇELİK E-posta: basri@uludag.edu.tr Telefon: +90 224 2941762 Adres: Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü 16059 Görükle-Bursa-TÜRKİYE							
17	Website:								
18	Objective of the Course:	The cour calculation will be be projective	rse which will be given foundations of the numerical ons founded in an important part of last studies in geometry, enefit the students who will study on synthetic and re geometry						
19	Contribution of the Course to Professional Development:	Having the ability to investigate the combinatorical properties of finite geometric structures.							
20	Learning Outcomes:		-						
		1	Can make basic applications of combinatorial calculations						
		2	Can apply counting theory on problems						
		3	Knows and applies the permutation concept on finite and infinite sets						
		4	Knows the equivalents of the concepts of subset, power set and partition on finite and infinite sets						
		5	Knows the Stainer triples and their special forms						
		6	Knows the properties of Latin squares						
		7							
		8							
		9							
		10							
21	Course Content:								
	Course Content:								
Week	Theoretical		Practice						
1	What is combinatorics?								

2	Numbers and on numbering																		
3	Subs	Subsets, partitions and permutations																	
4	Redu	Reducing relations and generate functions																	
5	Addi	Additional and subtraction functions																	
6	Latir	Latin squares																	
7	Set t	Set theory																	
8	Steir	Steiner triple theory																	
9	Finit	e geo	ometr	y															
10	Theo	orem	of Ra	imsey	, grap	hs													
11	Grap	ohs v	e pos	ets															
12	Latti	ces a	and m	atroid	5														
13	Adva perm	ance nutat	d infoi ions	matio	ns on	partitic	ons ar	d											
14	Auto grou	Automorphism groups and permutation groups																	
22	Text Mate	Textbooks, References and/or Other Materials:								1) Combinatorics Topics Techniques, Algorithms, Peter J. Cameron, Cambridge University Pres, ISBN: 0521457610, 1998									
Activites							1	Numb	ber		Dura	Duration (hour)			Total Work Load (hour)				
Theore	tical								S) Clé	erck et	g eome al., Ca	ambridg	Univ. Press,1993.			42.00 · De			
Practica	als/La	abs)	,	0	0.00	0.00			0.00		
Sex n atu	IEVARI	NONOS	GACET #	Vintes	;		N	UMBE	WE	WÉKGHT				9.00			126.00		
Homew	vorks								(0				0.00			0.00		
Project	IS EXE						0							0.00					
Field S	Field Studies								(0				0.00					
	lidterm exams									100.00				0.00					
Others	hers								(0						0.00			
Final E	-inal Exams									0.00			12.00			12.00			
Total Work Load														180.00					
Total work load/30 hi							10	0.00						6.00					
ECTS Credit of the Course													6.00						
Measur	remei	nt an	d Eva	luatio	n Tecl	hnique	s Use	d in th	e Ho	mewo	rks and	d online	exams	;					
24	EC	rs /	WO	RK L	OAD	TAB	LE		-										
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
ÖK1	4	4	4	1	0	1	2	2	1	3	2	0	0	3 0	0	0	0		
ÖK2	3	3	4	1	0	1	1	1	1	2	1	0	0	0	0	0	0		

ÖK3	3	4	2	0	2	1	1	2	2	1	0	0	0	0	0	0
ÖK4	4	4	2	0	2	1	1	2	2	1	0	0	0	0	0	0
ÖK5	4	4	1	0	2	2	2	1	3	2	0	0	0	0	0	0
ÖK6	3	4	2	0	1	1	2	1	2	1	0	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					