	PROJ	ECTI\	/E GEOMETRY						
1	Course Title:	PROJEC	CTIVE GEOMETRY						
2	Course Code:	MAT404	8						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	4							
6	Semester:	8							
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:	Prof. Dr.	Atilla AKPINAR						
15	Course Lecturers:	Prof. Dr. Doç. Dr.	Basri ÇELİK Fatma ÖZEN ERDOĞAN						
16	Contact information of the Course Coordinator:	Telefon: Adres: U	: aakpinar@uludag.edu.tr : +90 224 2941774 Jludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik 16059 Görükle-Bursa-TÜRKİYE						
17	Website:								
18	Objective of the Course:		the essentials of projective geometry which is one of the idean geometries.						
19	Contribution of the Course to Professional Development:	they may	n the ability to think in a versatile way in solving problems ay encounter in mathematics or daily life by showing the nce of different geometries.						
20	Learning Outcomes:								
		1	Knows the concepts of collinear points, coincides lines and the examples of non-Euclidean geometry.						
		2	Knows the general information about affine planes and examples of affine planes.						
		3	Learns the concept of division ring and field, sufficiently.						
		4	Construct an affine plane from division ring.						
		5	Learns the projective planes and their properties.						
		6	Learn and understand the importance of the concept of duality in projective planes.						
		7	Construct an projective plane from division ring.						
		8	Learn the relation between the affine planes and projective planes.						
		Knows the Desaguesian and Pappian projective planes and their fundamental properties.							
		10	Knows the perspectivities, projectivities and central collineations.						
21	Course Content:								
		Co	purse Content:						
Week	Theoretical		Practice						
1	Description of course.								

25	CONTRIBUTION		RNING OUTO	COMES TO PROGRA	MME
24	ECTS / WORK LOAD TABLE	<b>.</b>			
Course	Credit of the Course				6.00
	/ork load/ 30 hr		100.00		6.00
	Vork Load		1400.00		183.00
	ss Grade Xams		1	4.00	4.00
Others			0	0.00	0.00
177bidbaern	n exams	2	100.00	3.00	3.00
Field S	tudies		0	0.00	0.00
Planjeect	work-project	0	0.00	0.00	0.00
Homew	vorks		15	5.00	75.00
<b>Wedter</b>	nd∮æno preperation	1	40140	4.00	56.00
	als/Labs		0	0.00	0.00
	TASSESTIENT LICAL EARNING ACTIVITIES	NUMBE	14 WEIGHT	3.00	42.00
22 Activit		er		ometri, Prof. Dr. Rüstem K vinlari, Yayın No:551, 199 Duration (hou	
14	Central collineations.				
_	planes: perspectivities and projective				
12	Pappian planes.  1-dimensional transformations in pr	oiective			
11	Desarguesian planes.				
	projective planes. Subplanes.	, and			
10	Relations between the affine planes	and			
9	division ring.  Midterm and feedback				
8	Construction the projective plane from	om			
7	Principle of duality in projective plar their importance.	ne and			
6	Projective planes and their propertie	es.			
5	Construction of affine planes from rings.	division			
4	The concept of division ring and fiel (sufficiently for lecture).	d			
3	Affine planes and their properties, N plane.	<i>l</i> loulton			
2	Collinear points, coincides lines, pa and the examples of non-Euclidean geometry.				

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	2	5	1	4	5	1	1	3	3	2	0	0	0	0	0	0
ÖK2	3	4	1	2	4	1	2	2	2	1	0	0	0	0	0	0
ÖK3	1	5	1	3	5	1	2	3	1	1	0	0	0	0	0	0

ÖK4	2	4	1	2	4	1	2	2	2	2	0	0	0	0	0	0
ÖK5	2	5	1	2	5	1	1	2	2	1	0	0	0	0	0	0
ÖK6	1	4	1	3	4	1	2	3	3	1	0	0	0	0	0	0
ÖK7	3	5	1	3	5	1	3	2	2	2	0	0	0	0	0	0
ÖK8	1	3	1	2	4	1	3	3	2	1	0	0	0	0	0	0
ÖK9	2	4	1	4	4	1	2	2	3	1	0	0	0	0	0	0
ÖK10	1	5	1	3	5	1	1	2	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 High			5 Very High					