	LIN	EEAR						
1	Course Title:	LINEEAR ALGEBRA I						
2	Course Code:	MAT0503						
3	Type of Course:	Optional						
4	Level of Course:	First Cyc	le					
5	Year of Study:	2						
6	Semester:	3						
7	ECTS Credits Allocated:	4.00						
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 t	face					
14	Course Coordinator:	Doç. Dr.	Atilla Akpınar					
15	Course Lecturers:	Prof.Dr. Basri ÇELİK Prof.Dr. Esen İYİGÜN						
16	Contact information of the Course Coordinator:	E-posta: aakpinar@uludag.edu.tr Telefon: +90 224 2941774 Adres: Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü 16059 Görükle-Bursa-TÜRKİYE						
17	Website:							
18	Objective of the Course: Contribution of the Course to	The primary objective of this course is to introduce algebraic structures as group, ring, field and so to understand the concept of vector space, which is constructed over these structures, with basic properties and applications.						
19	Professional Development:							
20	Learning Outcomes:							
		1	knows the concepts of group, ring, field					
		2	gives an understanding of the algebra of finite-dimensional vector spaces as a basis for further study of abstract algebra					
		3	acquires an understanding of some fundamental ideas of linear algebra, including vectors, vector spaces, linear independence, bases, dimension and linear transformations, especially in the case of Rn and Cn					
		4 knows sub-vector spaces						
			learns real and complex inner product.					
		6	knows the concepts of linear independence, basis and dimension.					
		7	uses the Gram-Schmidt algorithm to orthonormalize a set of vectors.					
		8						
		9						
		10						
21	Course Content:	-						
10/		Co	burse Content:					
Week	Theoretical Practice							

1								
	Groups							
2	Fields and subfields							
3	The definition of vector spaces and examples	l their						
4	Standart vector spaces R^(n) and 0	C^(n)						
5	Subvector spaces		Γ					
6	The properties of vector spaces R^	(n)						
7	Midterm exam and evaluation of mean exam, repeat of previous subjects	idterm						
8	Linear independent, the method of orthogonality							
9	The properties about basis of vector dimensions of subspaces	or spaces,						
10	Space of direct sums and subspace product spaces	es of inner						
11	Linear transformations in vector spaces and examples of linear transformation							
Activi	tes			Number	Duration (hour)	Total Work Load (hour)		
Theore	inatrices	···g ••		14	3.00	42.00		
Practicals/Labs				0	0.00	0.00		
Solf of	udy and preperation	m(v,vv)		14	2.00	28.00		
Sell Su	day and proporation							
Home	works			0	0.00	0.00		
Home	works		2					
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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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Contrib ution Level:	1 very low 2 low				3 Medium			4 High			5 Very High					