LINEEAR ALGEBRA I										
1	Course Title:	LINEEAF	R ALGEBRA I							
2	Course Code:	MAT0503								
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	ele							
5	Year of Study:	3								
6	Semester:	5								
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 face								
14	Course Coordinator:	Prof. Dr.	SÜLEYMAN ÇİFTÇİ							
15	Course Lecturers:	Doç. Dr.Basri ÇELİK- Yrd. Doç.Dr. Atilla AKPINAR- Öğr.Gör.Dr.Esen İYİGÜN								
16	Contact information of the Course Coordinator:	E-posta: sciftci@uludag.edu.tr Telefon: +90 224 2941754 Adres: Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü 16059 Görükle-Bursa-TÜRKİYE								
17	Website:									
18	Objective of the Course:	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	Contribution of the Course to 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							
		5	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:									
	Course Content:									

Week	Theoretical		Р	Practice							
1	Groups										
	Fields and subfields										
2	Fields and subfields										
3	The definition of vector spaces and the	heir	Γ								
	examples										
4	Standart vector spaces R^(n) and C^	\(n)									
5	Subvector spaces										
6	The properties of vector spaces R^(r	1)									
7	Midterm exam and evaluation of midexam, repeat of previous subjects	term									
8	Linear independent, the method of orthogonality										
9	The properties about basis of vector dimensions of subspaces	spaces,									
10	Space of direct sums and subspaces product spaces	of inner									
11	Linear transformations in vector space	ces and									
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Theore	ical Linear transformations corresponding	n to		14	3.00	42.00					
Practica	als/Labs	.710		0	0.00	0.00					
Self stu	dy and preperation	() () ()		14	2.00	28.00					
Homew				0	0.00	0.00					
Project	Taraharaha Dafamanan anakan Oklam		۱,۰	O	0.00	0.00					
Field St	tudies			0	0.00	0.00					
Midtern	n exams		A	nkara, 2002	11.00	11.00					
Others				14	2.00	28.00					
Final E	kams		Р	uplisher	11.00	11.00					
	/ork Load					120.00					
t6tarw	EARNING ACTIVITIES	NUMBE R	W	EIGHT		4.00					
ECTS (Credit of the Course					4.00					
Quiz		0	0.	0.00							
Home v	vork-project	0	0.	0.00							
Final E	xam	6	60.00								
Total		2	10	100.00							
	ution of Term (Year) Learning Activitions Grade	es to	4	40.00							
Contrib	ution of Final Exam to Success Grade	е	6	60.00							
Total			10	100.00							
Measur Course	rement and Evaluation Techniques Us	sed in the									
24	ECTS / WORK LOAD TABLE										

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	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	
		l	LO: L	earr	ning (bjec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	S	1		
Contrib ution Level:	ution			2	2 low			3 Medium			4 High			5 Very High			