LINEEAR ALGEBRA I									
1	Course Title:	LINEEAR ALGEBRA I							
2	Course Code:	MAT0503							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
5	Year of Study:	4							
6	Semester:	7							
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. 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. is to gain knowledge of basic linear algebra to students, to improve							
	Professional Development:	the ability of finding solution to problems and analytical thinking.							
20	Learning Outcomes:	1 knows the concepts of group, ring, field							
			knows the concepts of group, ring, field gives an understanding of the algebra of finite-dimension vector spaces as a basis for further study of abstract algebra						
			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.						
			knows the concepts of linear independence, basis and dimension.						
			uses the Gram-Schmidt algorithm to orthonormalize a set of vectors.						
		8							
		9							
		10							
21	Course Content:	-							
1.4.5		Co	burse Content:						
Week	Theoretical Practice								

1	Groups								
2	Fields and subfields								
3	The definition of vector spaces and the examples	neir							
4	Standart vector spaces R^(n) and C^	(n)							
5	Subvector spaces								
6	The properties of vector spaces R^(n)							
7	Midterm exam and evaluation of midtexam, repeat of previous subjects	erm							
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 examples of linear transformation	es and							
Activit	tes			Number	Duration (hour)	Total Work Load (hour)			
Theoretinaltrices				14	3.00	42.00			
	als/Labs			0	0.00	0.00			
Self stu	dy and preperation	(,,,,,,		14	2.00	28.00			
Homev				0	0.00	0.00			
Project	Materials:		2) Uygulamalı Lineer Cebi, B.Kol-D.R.Hill (tercume),						
Field S			0 0.00 0.00						
Midterr	n exams		4) Elemantary Linear Algebra, Hartfiel.Hobbs, 1987, PWS						
Others				14	2.00	28.00			
Fi fa E	Assesment			1	11.00	11.00			
Total V	Vork Load					131.00			
The the course 1				0.00		4.00 4.00			
				.00					
Final E		60.00							
Total		100.00							
Contrib	oution of Term (Year) Learning Activities ss Grade	2 es to	40.00						
Contrib	oution of Final Exam to Success Grade)	60.00						
Total			100.00						
Measu Course	•	sed in the	The system of relative evaluation is applied.						
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 3	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
		l	_O: L	earr	ning C	bjec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	5		
Contrib ution Level:				2 low		3 Medium			4 High				5 Very High			