LINEEAR ALGEBRA II								
1	Course Title:	LINEEA	R ALGEBRA II					
2	Course Code:	MAT0504						
3	Type of Course:	Optional						
4	Level of Course:	First Cycle						
5	Year of Study:	2						
6	Semester:	4						
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 AKPINAR					
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: Bursa Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü 16059 Görükle-Bursa-TÜRKİYE						
17	Website:							
18	Objective of the Course:	The objective of this course, by constructing the relation between linear mappings and matrices, is to understand the finding the echelon form of a matrix and the inverse (if exists) of a matrix, the rank of a matrix and also solving to linear equation systems with several methods.						
19	Contribution of the Course to Professional Development:	is to gain knowledge of basic linear algebra to students, to improve the ability of finding solution to problems and analytical thinking.						
20	Learning Outcomes:							
		1	constructs to matrix of the linear transformation					
		2	uses elementary row operations, elementary matrices and matrix algebra to solve systems of equations					
		3	understands determinants and their properties					
		4	develops your ability to solve problems involving linear equations, matrices, determinants and vectors					
		5	learns how to find/calculate the determinant, inverse, transpose of matrices					
		6	understands matrix notation and the different matrix forms					
		7	demonstrates proficiency in correct formulation and solving linear problems in terms of systems of linear equations in matrix notation					
		8	writes solutions to problems involving linear algebra in a clear, mathematically-correct, and grammatically-correct fashion					

		9								
		10								
21	21 Course Content:									
	Course Content:									
Week	Theoretical		Pra	actice						
1	Matrix corresponding to linear transformation	ormation,								
2	Change of basis and properties of ma	atrix								
3	Elementary operations, echolon form reduced echolon form	and								
4	Elementary operations of vectors and matrices	k								
5	Linear equation systems, definition a examples, solution method by Gauss									
6	Solution of Linear equation systems I Gauss-Jordan method and LU partition									
7	Permutations, odd-even permutations group of permutations	s, the								
Activites				Number	Duration (hour)					
Theore	tical		1	14	3.00	42.00				
Practica	als/Labs		()	0.00	0.00				
Self stu	determinant functions dy and preperation		1	14	2.00	28.00				
Homew			()	0.00	0.00				
Project	examples)	0.00	0.00				
Field S	tudies		()	0.00 0.00					
Midtern	trexates mation		1	1	25.00	25.00				
Others			()	0.00	0.00				
Final E	rsolution or linear equation systems b Meterminants	У		1	25.00	25.00				
Total W	/ork Load					120.00				
Tolal w	Characteristic vectors and character	istic				4.00				
ECTS (Credit of the Course					4.00				
22	Textbooks, References and/or Other Materials:		1) Lineer Cebir, H.Hilmi Hacısalihoğlu, Ankara, 1985 2) Uygulamalı Lineer Cebir, B.Kol-D.R.Hill (tercüme), Ankara, 2002 3) Linear Algebra, Serge Lang, Newyork, 1972 4) Elemantary Linear Algebra, Hartfiel.Hobbs, 1987, PWS Publisher							
23	Assesment	1								
TERM LEARNING ACTIVITIES NUMBE R				WEIGHT						
Midtern	n Exam	1	40.00							
Quiz		0	0.00							
Home v	work-project	0	0.00							
Final E	<u> </u>	1	60.00							

Fotal 2 1		100.00					
Contribution of Term (Year) Learning Activiti Success Grade	es to	40.00					
Contribution of Final Exam to Success Grad	е	60.00					
Total		100.00					
Measurement and Evaluation Techniques U 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	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
		l	LO: L	.earr	ning (Objec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	<u>. </u>		
Contrib 1 very low ution Level:			2	2 low 3 Medi				um	4 High			5 Very High				