	LIN	EEAR						
1	Course Title:	LINEEAR ALGEBRA II						
2	Course Code:	MAT0504						
3	Type of Course:	Optional						
4	Level of Course:	First Cycle						
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	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:	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:							
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					
			develops your ability to solve problems involving linear equations, matrices, determinants and vectors					
			learns how to find/calculate the determinant, inverse, transpose of matrices					
		6 understands matrix notation and the different matrix f						
		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	Course Content:										
	Course Content:										
Week	Theoretical		Practice								
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 permutation group of permutations	s, the									
Activit	es		Number	Duration (hour)	Total Work Load (hour)						
Theore	lical		14	3.00	42.00						
Practic	als/Labs		0	0.00	0.00						
Self stu	dy and preperation		14	2.00	28.00						
Homew	vorks		0	0.00	0.00						
Project	examples		0	0.00	0.00						
Field S	tudies		0	0.00	0.00						
Midtern	trex stor mation		1	11.00	11.00						
Others			14	2.00	28.00						
Final E	Control of the systems of the systems of the systems of the systems of the system of t	у	1	11.00	11.00						
	/ork Load				120.00						
Tola w	Characteristic vectors and character	istic			4.00						
	Credit of the Course				4.00						
22	Textbooks, References and/or Other Materials:		 Lineer Cebir, H.Hilmi Hacısalihoğlu, Ankara, 1985 Uygulamalı Lineer Cebir, B.Kol-D.R.Hill (tercüme), Ankara, 2002 Linear Algebra, Serge Lang, Newyork, 1972 Elemantary Linear Algebra, Hartfiel.Hobbs, 1987, PWS Publisher 								
23	Assesment		<u> </u>								
TERML	EARNING ACTIVITIES	NUMBE R	WEIGHT								
Midtern	n Exam	1	40.00								
Quiz		0	0.00								
	work-project	0	0.00								
Final E		1	60.00								

Total		2	100.00					
Contribution Success Gra	of Term (Year) Learning Activitie ade	es to	40.00					
Contribution	of Final Exam to Success Grade)	60.00					
Total			100.00					
Measurement and Evaluation Techniques Used in the Course								
24 ECTS / WORK LOAD TABLE								
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME							

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
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		l	_O: L	.earr	ning C	bjec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	i i		1
Contrib ution Level:	ution				2 low 3 Me			Medi	dium 4 High			5 Very High				