LINEAR ALGEBRA II						
1	Course Title:	LINEAR	LINEAR ALGEBRA II			
2	Course Code:	MAT1004				
3	Type of Course:	Compulsory				
4	Level of Course:	First Cycle				
5	Year of Study:	1				
6	Semester:	2				
7	ECTS Credits Allocated:	7.00				
8	Theoretical (hour/week):	3.00				
9	Practice (hour/week):	2.00				
10	Laboratory (hour/week):	0				
11	Prerequisites:	-				
12	Language:	Turkish				
13	Mode of Delivery:	Face to face				
14	Course Coordinator:	Prof. Dr.	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:	To find matrix of the linear transformation, to solve linear equation systems by elementary operations, to introduce permutation and determinant functions and to teach methods of solution of the linear equation systems.				
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			
		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			F					
21	Course Content:							
	Course Content:							
Week				Practice				
1			S	Solving problem				
2				Solving problem				
3	Elementary operations, echolon form and reduced echolon form			Solving problem				
4			S	Solving problem				
5	Linear equation systems, definition and examples, solution method by Gauss method		S	Solving problem				
6	Solution of Linear equation systems by Gauss-Jordan method and LU partition		S	Solving problem				
7	Permutations, odd-even permutations, the group of permutations			Solving problem				
8	Midterm exam and evaluation of midterm exam, repeat of previous subjects		S	Solving problem				
9	n-linear alternative functions		S	Solving problem				
10	Determinant and basic properties of		S	Solving problem				
Activit	es			Number	Duration (hour)	Load (hour)		
Theore	inverse matrix, determinant of a linea	ar	S	ol∜ing problem	3.00	42.00		
	als/Labs			14	2.00	28.00		
Self study and preperation systems by determinants			5	olying problem	5.00	70.00		
Homew	vorks			0	0.00	0.00		
Projectsvalues				0	0.00	0.00		
Field S	tudies			0	0.00	0.00		
Midtern	Nexternials:		2	Dygulamalı Lineer Ce	bµiut,@GKolR.Hill (te	r1241.0000),		
Others				14	3.00	42.00		
Final E	kams		4)	Elemantary Linear Ale	pep.mo.Hartfiel.Hobl	\$4 <u>1</u> 9887, PWS		
Total W	/ork Load		ш	ublichor		210.00		
Total w	ork load/ 30 hr		Μ	cGraw-Hill Book Com		7.00		
ECTS (ECTS Credit of the Course			Lipoor Algobro with A	phications (Caroth	1.00		
23	Assesment							
TERM LEARNING ACTIVITIES NUMBE R			w	WEIGHT				
Midterm Exam 1			4(40.00				
Quiz 0			0.	0.00				
Home work-project 0			0.	0.00				
Final Exam 1			60	60.00				
Total 2			1(100.00				
Contribution of Term (Year) Learning Activities to Success Grade			4(40.00				
Contribution of Final Exam to Success Grade			60	60.00				

Total	100.00
Measurement and Evaluation Techniques Used in the Course	
24 ECTS / WORK LOAD TABLE	

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3 ÖK4 ÖK5 ÖK6 ÖK7 ÖK8 LO: Learning Objectives PQ: Program Qualifications 1 very low 5 Very High 3 Medium 4 High Contrib 2 low ution Level: