	LII	NEAR	ALGEBRA I							
1	Course Title:	LINEAR	ALGEBRA I							
2	Course Code:	İMÖ2003								
3	Type of Course:	Compulsory								
4	Level of Course:	First Cycle								
5	Year of Study:	2								
6	Semester:	3								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to t	face							
14	Course Coordinator:	Prof. Dr.	RIDVAN EZENTAŞ							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	rezentas@uludag.edu.tr 0224 2942287 Uludağ Üniversitesi Eğitim Fakültesi, E Blok, Matematik ve Fen Bilimleri Bölümü, Matematik Eğitimi ABD.								
17	Website:									
18	Objective of the Course:	Students improve the ability of abstract thinking, the concepts of matrices and determinants intensified vector space, to create the basis for algebra classes.								
19	Contribution of the Course to Professional Development:	Creates and develops the knowledge base of the prospective teacher. Comprehends the concepts related to the field and the relations between concepts based on the competencies gained in secondary education. Have defines and analyzes problems related to his field, and develops solutions based on evidence and research.								
20	Learning Outcomes:									
		1	Gains the skill abstract thinking.							
		2	Solves systems of linear equations using matrices and determinants.							
		3	Consolidates the concept of vector space with the matrix and determinant.							
		4	Understand the structure of vector space and subspace.							
		5	Vectors in a vector space understands the concepts of linear dependence and linear independence.							
		6	Understands the concept of a vector space basis and dimension.							
		7	Establishes the relationship between the dimension of the row space.and a rank of matrix							
	8 9 10									
		10								
21	Course Content:									
14/	The second sector	Co	burse Content:							
Week	Theoretical		Practice							

1	Intro	oducii	ng the	cours	se, Ma	atrix the	eory											
2	Matrix operations, primitive row and column operations																	
3	Rank of a Matrix, Inverse of a square matrix																	
4	Dete	Determinants																
5	Dete	Determinants																
6	Syst	tems	of line	ear eq	uation	IS												
7	Syst	tems	of line	ear eq	uation	IS												
8	Syst	tems	of line	ear eq	uation	IS												
9	Vect	tor sp	aces,	subs	baces													
10	Sub	Subspace of a cluster stretch																
11	Line	ar de	epend	ence a	and lin	ear inc	depen	dence	•									
12	A ve	ector	space	and c	dimen	sion of	base											
13	Spa	ces c	of a ma	atrix o	f rows	and c	olumn	S										
14	Gen	eral l	Repet	ition														
22 Activit	Materials:									Editör: Orhan ÖZER (1998), Matematik Öğretme Lineer Cebir, Anadolu Üniversitesi Açık Öğretim Yayınları No:589. H.Hilmi Hacısalihoğlu (2000) Lineer Cebir I, , Hac Yayıncılık, Bernard Kolman;(2004) Elementary Linear Algel Edition, Number Duration (hour) Tota						etim Fak , Hacısa Algebra; Total W	ültesi Ilihoğlu Fifth Vork	
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													30.00		112.00			
Total Work Load Course Total Work load/ 30 hr									<u>-13</u> E	are us	sea in t	ne tead	ching or	the co	urse. IV	112.00 Jorerm a 3.07	and	
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24					OAD	TAB	LE									5.00		
25				CON	TRIB		N OF						S TO I	PROG	RAM	ME		
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ÖK2	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	
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även																		
ÖK4	4	4	3	3	3	3	3	3	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	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:	tion				2 low			3 Medium			4 High			5 Very High			