

# LINEAR ALGEBRA APPLICATIONS

1	Course Title:	LINEAR ALGEBRA APPLICATIONS	
2	Course Code:	İMÖ0015	
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):	2.00	
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. 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	
21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	



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																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			