

MATRIX THEORY

1	Course Title:	MATRIX THEORY
2	Course Code:	MAT3062
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	6
7	ECTS Credits Allocated:	5.00
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. EMRULLAH YAŞAR
15	Course Lecturers:	Dr. Öğr. Üyesi Nisa Çelik
16	Contact information of the Course Coordinator:	eyasar@uludag.edu.tr 0224 2941768 U.Ü. Fen Edebiyat Fakültesi Matematik Bölümü Nilüfer BURSA
17	Website:	
18	Objective of the Course:	The aim of the course is to introduce the matrix and some special types of matrix, computing the matrix expansions finding the inverse matrix defining some special matrices LU decomposition method to find the inverse of matrix. Cryptography and applications
19	Contribution of the Course to Professional Development:	Obtain the solution of some unsolvable or difficult mathematical problems with appropriate methods
20	Learning Outcomes:	
	1	Knows the definition of the matrix and some special types of matrices.
	2	Knows determinant and transpose matrix calculation.
	3	Knows the cryptography.
	4	Knows that the upper and lower triangular matrix and calculating the definition.
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21	Course Content:	
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Week	Theoretical	Practice
1	Matrix definition and basic properties	
2	Matrices of determinant calculation method	
3	Calculation of transpose matrix	
4	Calculation of inverse matrix	

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