

1. year						
Code	Description	Credit	Total Credit	ECTS	Prerequisite/Elective	Term
MAT101	ANALYSIS I	4+2+0	5.00	6	prerequisite	1
MAT111	PHYSICS I	3+2+0	4.00	5	prerequisite	1
MAT115	ANALYTIC GEOMETRY	4+0+0	4.00	5	prerequisite	1
MAT131	COMPUTER PROGRAMING I	2+0+0	2.00	3	prerequisite	1
MAT151	FRENCH I	2+0+0	2.00	3	prerequisite	1
MAT191	HISTORY OF TURKISH REPUBLIC I	2+0+0	2.00	3	prerequisite	1
PH105	LOGIC I	3+0+0	3.00	4	prerequisite	1
MAT102	ANALYSIS II	4+2+0	5.00	6	prerequisite	2
MAT112	PHYSICS II	3+2+0	4.00	5	prerequisite	2
MAT116	INTRODUCTION TO MATHEMATICAL STRUCTURES	4+0+0	4.00	5	prerequisite	2
MAT132	COMPUTER PROGRAMING II	2+0+0	2.00	3	prerequisite	2
MAT152	FRENCH II	2+0+0	2.00	3	prerequisite	2
MAT192	HISTORY OF TURKISH REPUBLIC II	2+0+0	2.00	3	prerequisite	2
PH106	LOGIC II	3+0+0	3.00	4	prerequisite	2
2. year						
Code	Description	Credit	Total Credit	ECTS	Prerequisite/Elective	Term
MAT201	ANALYSIS III	4+2+0	5.00	7	prerequisite	1
MAT203	DIFFERENTIAL EQUATIONS	4+0+0	4.00	6	prerequisite	1
MAT261	LINEAR ALGEBRA I	4+0+0	4.00	6	prerequisite	1
MAT251	FRENCH III	2+0+0	2.00	2	prerequisite	1
MAT291	TURKISH I	2+0+0	2.00	2	prerequisite	1
INF201	ALGORITHMS AND PROGRAMMING I	3+0+0	3.00	4	prerequisite	1
MAT202	ANALYSIS II	4+2+0	5.00	7	prerequisite	2
MAT216	PROBABILITY	4+0+0	4.00	6	prerequisite	2
MAT262	LINEAR ALGEBRA II	4+0+0	4.00	6	prerequisite	2
MAT252	FRENCH IV	2+0+0	2.00	2	prerequisite	2
MAT292	TURKISH II	2+0+0	2.00	2	prerequisite	2
INF202	ALGORITHMS AND PROGRAMMING II	3+0+0	3.00	4	prerequisite	2

3. year						
Code	Description	Credit	Total Credit	ECTS	Prerequisite/Elective	Term
MAT301	ANALYSIS V	5+0+0	5.00	7	prerequisite	1
MAT305	ALGEBRA I	5+0+0	5.00	7	prerequisite	1
MAT323	THEORY OF COMPLEX FUNCTIONS	4+0+0	4.00	6	prerequisite	1
	ELECTIVE COURSE (MATHEMATICS)	3+0+0	3.00	5	elective	1
	ELECTIVE COURSE	3+0+0	3.00	4	elective	1
MAT300	SEMINAR I	1+0+0	1.00	2	prerequisite	2
MAT306	ALGEBRA II	5+0+0	5.00	7	prerequisite	2
MAT316	DIFFERENTIAL GEOMETRY	4+0+0	4.00	6	prerequisite	2
MAT328	PARTIAL DIFFERENTIAL EQUATIONS	4+0+0	4.00	6	prerequisite	2
	ELECTIVE COURSE (MATHEMATICS)	3+0+0	3.00	5	elective	2
	ELECTIVE COURSE	3+0+0	3.00	4	elective	2
4. year						
Code	Description	Credit	Total Credit	ECTS	Prerequisite/Elective	Term
MAT400	SEMINAR II	1+0+0	1.00	2	prerequisite	1
	ELECTIVE COURSE (MATHEMATICS)	3+0+0	3.00	5	elective	1
	ELECTIVE COURSE (MATHEMATICS)	3+0+0	3.00	5	elective	1
	ELECTIVE COURSE (MATHEMATICS)	3+0+0	3.00	5	elective	1
	ELECTIVE COURSE (MATHEMATICS)	3+0+0	3.00	5	elective	1
	ELECTIVE COURSE	3+0+0	3.00	4	elective	1
	ELECTIVE COURSE	3+0+0	3.00	4	elective	1
MAT490	PROJECT	0+8+0	4.00	8	prerequisite	2
	ELECTIVE COURSE (MATHEMATICS)	3+0+0	3.00	5	elective	2
	ELECTIVE COURSE (MATHEMATICS)	3+0+0	3.00	5	elective	2
	ELECTIVE COURSE (MATHEMATICS)	3+0+0	3.00	5	elective	2
	ELECTIVE COURSE	3+0+0	3.00	4	elective	2
	ELECTIVE COURSE	3+0+0	3.00	4	elective	2

Departmental Elective Courses	
MAT302	AUTOMATA THEORY AND FORMAL LANGUAGES
MAT314	GENERAL TOPOLOGY
MAT332	GRAPH THEORY
MAT342	GAME THEORY
MAT356	GROUPS AND GEOMETRY
MAT365	NUMBER THEORY I
MAT366	NUMBER THEORY II
MAT381	NUMERICAL ANALYSIS I
MAT382	NUMERICAL ANALYSIS II
MAT391	HISTORY OF MATHEMATICS I
MAT392	HISTORY OF MATHEMATICS II
MAT406	FIELD EXTENSIONS
MAT414	BASIC GEOMETRIC TOPOLOGY
MAT423	INTRODUCTION TO COMPLEX ANALYSIS
MAT452	INTRODUCTION TO FUNCTIONAL ANALYSIS
MAT455	TOPOLOGICAL VECTOR SPACES
MAT457	MANIFOLD THEORY
MAT461	RINGS AND MODULES
MAT463	INTRODUCTION TO GROUP THEORY
MAT471	HYPERBOLIC GEOMETRY
MAT473	IDEALS, VARIETIES AND ALGORITHMS
MAT474	INTRODUCTION TO COMPUTATIONAL ALGEBRAIC GEOMETRY
MAT476	ALGEBRAIC CURVES
MAT478	MATHEMATICAL CRYPTOGRAPHY
MAT481	NUMERICAL SOLUTIONS OF ORDINARY DIFFERENTIAL EQUATIONS
MAT482	NUMERICAL SOLUTIONS OF PARTIAL DIFFERENTIAL EQUATIONS
MAT489	COMMUTATIVE ALGEBRA

Non-departmental Elective Courses	
CNT341	MICROECONOMICS
E107	INTRODUCTION TO ECONOMICS
E207	STATISTICS I
E208	STATISTICS II
INF311	PROGRAMMING PRACTICE
INF313	OBJECT ORIENTED PROGRAMMING
INF351	STATISTICS
IND409	OPERATIONAL RESEARCH