



Kafkas Üniversitesi
FACULTY OF SCIENCE AND LETTERS

Mathematics
Matematik

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220207101	ANALYSIS I	4+2+0	Compulsory	7
220207103	ANALYTIC GEOMETRY I	4+0+0	Compulsory	5
220207105	ABSTRACT MATHEMATICS I	4+0+0	Compulsory	5
220207107	BASIC COMPUTER I	1+2+0	Compulsory	3
220207109	PHYSICS I	4+0+0	Compulsory	4
220207151	TURKISH LANGUAGE I	2+0+0	Compulsory	1
220207161	FOREIGN LANGUAGE(ENGLISH) I	2+0+0	Compulsory	1
220207171	ATATURK'S PRINCIPLES AND REVOLUTION HISTORY I	2+0+0	Compulsory	1
220207181	CAREER PLANNING	1+0+0	Compulsory	2
220207141	PHYHSICAL EDUCATION AND FINE ARTS I	-	Elective	1
Total ECTS				30

220207141.1	PHYSICAL EDUCATION I	2+0+0	Elective	1
220207141.2	MUSIC I	2+0+0	Elective	1
220207141.3	ART OF PICTURES I	2+0+0	Elective	1

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220207102	ANALYSIS II	4+2+0	Compulsory	7
220207104	ANALYTIC GEOMETRY II	4+0+0	Compulsory	6
220207106	ABSTRACT MATHEMATICS II	4+0+0	Compulsory	6
220207108	BASIC COMPUTER II	1+2+0	Compulsory	3
220207110	PHYSICS I	4+0+0	Compulsory	4
220207152	TURKISH LANGUAGE II	2+0+0	Compulsory	1
220207162	FOREIGN LANGUAGE(ENGLISH) II	2+0+0	Compulsory	1
220207172	ATATURK'S PRINCIPLES AND HISTORY OF REFORM I	2+0+0	Compulsory	1
220207142	PHYHSICAL EDUCATION AND FINE ARTS II	-	Elective	1
Total ECTS				30

220207142.1	PHYSICAL EDUCATION II	2+0+0	Elective	1
220207142.2	MUSIC II	2+0+0	Elective	1
220207142.3	ART OF PICTURES II	2+0+0	Elective	1

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220207201	ANALYSIS III	4+2+0	Compulsory	7
220207203	DIFFERENTIAL EQUATIONS I	3+2+0	Compulsory	6
220207205	LINEAR ALGEBRA I	3+2+0	Compulsory	6
220207207	INTRODUCTION TO TOPOLOGY I	3+0+0	Compulsory	4
220207209	ABSTRACT ALGEBRA I	3+0+0	Compulsory	4
220207211	PROFESSIONAL FOREIGN LANGUAGE I	2+0+0	Compulsory	3
Total ECTS				30

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220207202	ANALYSIS IV	4+2+0	Compulsory	7
220207204	DIFFERENTIAL EQUATIONS II	3+2+0	Compulsory	6
220207206	LINEAR ALGEBRA II	3+2+0	Compulsory	6
220207208	INTRODUCTION TO TOPOLOGY II	3+0+0	Compulsory	4
220207210	ABSTRACT ALGEBRA II	3+0+0	Compulsory	4
220207212	PROFESSIONAL FOREIGN LANGUAGE II	2+0+0	Compulsory	3
Total ECTS				30

5.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220207301	DIFFERENTIAL GEOMETRY I	4+0+0	Compulsory	7
220207303	THEORY OF COMPLEX FUNCTIONS I	4+0+0	Compulsory	7
220207305	PARTIAL DIFFERENTIAL EQUATIONS I	3+0+0	Compulsory	6
220207307	PROBABILITY AND STATISTICS I	2+0+0	Compulsory	4

220207031	3rd YEAR FALL ELECTIVE COURSES	-	Elective	6
			Total ECTS	30
220207309	REAL ANALYSIS I	3+0+0	Elective	6
220207311	NUMERICAL ANALYSIS I	3+0+0	Elective	6
220207313	GROUP THEORY I	3+0+0	Elective	6
220207315	TOPOLOGY I	3+0+0	Elective	6
6.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220207302	DIFFERENTIAL GEOMETRY II	4+0+0	Compulsory	7
220207304	THEORY OF COMPLEX FUNCTIONS II	4+0+0	Compulsory	7
220207306	PARTIAL DIFFERENTIAL EQUATIONS II	3+0+0	Compulsory	6
220207308	PROBABILITY AND STATISTICS II	2+0+0	Compulsory	4
220207032	3rd YEAR SPRING ELECTIVE COURSES	-	Elective	6
			Total ECTS	30
220207310	REAL ANALYSIS II	3+0+0	Elective	6
220207312	NUMERICAL ANALYSIS II	3+0+0	Elective	6
220207314	GROUP THEORY II	3+0+0	Elective	6
220207316	TOPOLOGY II	3+0+0	Elective	6
7.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220207401	FUNCTIONAL ANALYSIS I	2+2+0	Compulsory	10
220207403	OPTIMIZATION METHODS I	2+2+0	Compulsory	10
220207041	4nd YEAR FALL ELECTIVE COURSES	-	Elective	10
			Total ECTS	30
220207405	THE THEORY OF NUMBERS I	3+0+0	Elective	10
220207407	MATRIX THEORY I	3+0+0	Elective	10
220207409	COMPUTER PROGRAMMING LANGUAGES I	3+0+0	Elective	10
220207411	DYNAMIC SYSTEMS I	3+0+0	Elective	10
220207413	INTRODUCTION TO LIMIT VALUE PROBLEMS	3+0+0	Elective	10
220207415	COMPLEX ANALYSIS	3+0+0	Elective	10
220207417	VECTORAL ANALYSIS I	3+0+0	Elective	10
220207419	SPECIAL TOPICS IN ANALYSIS I	3+0+0	Elective	10
220207421	INTEGRAL EQUATIONS I	3+0+0	Elective	10
220207423	TENSOR ANALYSIS I	3+0+0	Elective	10
220207425	TRANSFORMATIONS AND GEOMETRIES I	3+0+0	Elective	10
220207427	TOPOLOGICAL VECTOR SPACES I	3+0+0	Elective	10
8.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
220207402	FUNCTIONAL ANALYSIS II	2+2+0	Compulsory	9
220207404	OPTIMIZATION METHODS II	2+2+0	Compulsory	9
220207429	THESIS	0+2+0	Compulsory	3
220207042	4nd YEAR SPRING ELECTIVE COURSES	-	Elective	9
			Total ECTS	30
207008032018	THE THEORY OF NUMBER II	3+0+0	Elective	9
207008062014	DYNAMIC SYSTEMS II	3+0+0	Elective	9
207008082014	FOURIER ANALYSIS	3+0+0	Elective	9
207008112014	INTEGRAL EQUATIONS II	3+0+0	Elective	9
207008122018	TENSOR ANALYSIS II	3+0+0	Elective	9
207008142018	TOPOLOGICAL VECTOR SPACES II	3+0+0	Elective	9
220207408	MATRIX THEORY II	3+0+0	Elective	9
220207410	COMPUTER PROGRAMMING LANGUAGES II	3+0+0	Elective	9
220207414	VARIATIONAL APPROACH METHODS	3+0+0	Elective	9
220207418	VECTORAL ANALYSIS II	3+0+0	Elective	9
220207420	SPECIAL TOPICS IN ANALYSIS II	3+0+0	Elective	9
220207426	TRANSFORMATIONS AND GEOMETRIES II	3+0+0	Elective	9