



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MATHEMATICS



MASTER (MSc) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MAT-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MAT-5601	THESIS PREPARATION	C	0	1	1	0	1	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
TOTAL			20	1	21	12	30	

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MAT-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MAT-5602	THESIS PREPARATION	C	0	1	1	0	1	
MAT-5701	SEMINAR	C	0	2	2	0	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
TOTAL			17	3	20	9	30	



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SECOND YEAR

THIRD SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MAT-5503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MAT-5603	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

FOURTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MAT-5504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MAT-5604	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
FBE-5001	SCIENTIFIC RESEARCH AND METHODS	C	3	0	3	3	5
MAT-5001	RING THEORY I	E	3	0	3	3	5
MAT-5002	MULTILINEAR ALGEBRA I	E	3	0	3	3	5
MAT-5003	MULTILINEAR ALGEBRA II	E	3	0	3	3	5
MAT-5004	SINGULAR INTEGRALS I	E	3	0	3	3	5
MAT-5005	TIME SCALE AND DYNAMIC EQUATIONS I	E	3	0	3	3	5
MAT-5006	ADVANCED PROJECTIVE GEOMETRY I	E	3	0	3	3	5
MAT-5007	EUCLIDEAN AND NONEUCLIDEAN GEOMETRIES I	E	3	0	3	3	5
MAT-5008	MINIQUATERNION GEOMETRY I	E	3	0	3	3	5
MAT-5009	CATEGORY THEORY I	E	3	0	3	3	5
MAT-5010	INTRODUCTION TO DIFFERENCE EQUATIONS I	E	3	0	3	3	5
MAT-5011	INTRODUCTION TO DIFFERENCE EQUATIONS II	E	3	0	3	3	5
MAT-5012	OSCILLATIONS THEORY II	E	3	0	3	3	5
MAT-5013	SPECIFIC TITLES IN ALGEBRA I	E	3	0	3	3	5



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MAT-5014	SPECIFIC TITLES IN ALGEBRA II	E	3	0	3	3	5
MAT-5015	ADVANCED ANALYSIS I	E	3	0	3	3	5
MAT-5016	ADVANCED ANALYSIS II	E	3	0	3	3	5
MAT-5017	ADVANCED PROJECTIVE GEOMETRY II	E	3	0	3	3	5
MAT-5018	ALGEBRAIC TOPOLOGY I	E	3	0	3	3	5
MAT-5019	ALGEBRAIC TOPOLOGY II	E	3	0	3	3	5
MAT-5020	RING THEORY II	E	3	0	3	3	5
MAT-5021	CATEGORY THEORY II	E	3	0	3	3	5
MAT-5022	SINGULAR INTEGRALS II	E	3	0	3	3	5
MAT-5023	TENSOR ALGEBRA I	E	3	0	3	3	5
MAT-5024	TENSOR ALGEBRA II	E	3	0	3	3	5
MAT-5025	FRACTIONAL INTEGRALS II	E	3	0	3	3	5
MAT-5026	ADVANCED DIFFERENTIAL EQUATIONS I	E	3	0	3	3	5
MAT-5027	ADVANCED DIFFERENTIAL EQUATIONS II	E	3	0	3	3	5
MAT-5028	TENSOR ALGEBRA I	E	3	0	3	3	5
MAT-5029	FRACTIONAL INTEGRALS I	E	3	0	3	3	5
MAT-5030	MOTION GEOMETRY I	E	3	0	3	3	5
MAT-5031	MOTION GEOMETRY II	E	3	0	3	3	5
MAT-5032	OSCILLATIONS THEORY I	E	3	0	3	3	5
MAT-5033	TOEPLITZ AND HANKEL FORMS I	E	3	0	3	3	5
MAT-5034	FRACTIONAL DIFFERENTIAL EQUATIONS I	E	3	0	3	3	5
MAT-5035	FRACTIONAL DIFFERENTIAL EQUATIONS II	E	3	0	3	3	5
MAT-5036	COMPLEX ANALYSIS I	E	3	0	3	3	5
MAT-5037	COMPLEX ANALYSIS II	E	3	0	3	3	5
MAT-5038	INTEGRAL INEQUALITIES IN TIME SCALE II	E	3	0	3	3	5
MAT-5039	TOEPLITZ AND HANKEL FORMS II	E	3	0	3	3	5
MAT-5040	TIME SCALE AND DYNAMIC EQUATIONS II	E	3	0	3	3	5
MAT-5041	EUCLIDEAN AND NONEUCLIDEAN GEOMETRIES II	E	3	0	3	3	5
MAT-5042	MINIQUATERNION GEOMETRY II	E	3	0	3	3	5
MAT-5043	INTEGRAL INEQUALITIES IN TIME SCALE I	E	3	0	3	3	5
MAT-5044	NUMERICAL SOLUTIONS OF DIFFERENTIAL EQUATIONS WITH COMPUTER APPLICATIONS I	E	3	0	3	3	5
MAT-5045	NUMERICAL SOLUTIONS OF DIFFERENTIAL EQUATIONS WITH COMPUTER APPLICATIONS II	E	3	0	3	3	5
MAT-5046	INTRODUCTION TO MATHEMATICAL LOGIC I	E	3	0	3	3	5
MAT-5047	INTRODUCTION TO MATHEMATICAL LOGIC II	E	3	0	3	3	5



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MAT-5048	INTRODUCTION TO HOMOLOGICAL ALGEBRA I	E	3	0	3	3	5
MAT-5049	INTRODUCTION TO HOMOLOGICAL ALGEBRA II	E	3	0	3	3	5
MAT-5050	ADVANCED REAL ANALYSIS I	E	3	0	3	3	5
MAT-5051	ADVANCED REAL ANALYSIS II	E	3	0	3	3	5
MAT-5052	CONVERGENCE TYPES IN SUMMABILITY THEORY I	E	3	0	3	3	5
MAT-5053	CONVERGENCE TYPES IN SUMMABILITY THEORY II	E	3	0	3	3	5