



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MECHANICAL ENGINEERING



MASTER (MSc) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MKM-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MKM-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	
MKM-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MKM-5602	THESIS PREPARATION	C	0	1	1	0	1	
MKM-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	
MKM-5503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MKM-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	
MKM-5504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MKM-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
MKM-5001	NON-TRADITIONAL MACHINING PROCESSES	E	3	0	3	3	5
MKM-5002	SCHOLARLY WRITING AND PRESENTATION TECHNOLOGIES	E	3	0	3	3	5
MKM-5003	THEORY OF ELASTICITY	E	3	0	3	3	5
MKM-5005	CONTACT MECHANICS	E	3	0	3	3	5
MKM-5006	ADVANCED COMPUTER AIDED DESIGN	E	3	0	3	3	5
MKM-5007	FAILURE ANALYSIS IN ENGINEERING	E	3	0	3	3	5
MKM-5008	SOLUTION OF ENGINEERING PROBLEMS BY USING MATLAB	E	3	0	3	3	5
MKM-5009	EXPERT SYSTEMS AND INDUSTRIAL APPLICATIONS	E	3	0	3	3	5
MKM-5010	FATIGUE	E	3	0	3	3	5
MKM-5011	COMPUTER CONTROLLED MANUFACTURING	E	3	0	3	3	5
MKM-5013	ENGINEERING MATHEMATICS	E	3	0	3	3	5
MKM-5014	MECHANICS OF COMPOSITE MATERIALS	E	3	0	3	3	5
MKM-5015	FINITE ELEMENT METHOD	E	3	0	3	3	5



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MKM-5016	METAL CUTTING THEORY	E	3	0	3	3	5
MKM-5017	OPTIMIZATION IN DESIGN AND MANUFACTURING	E	3	0	3	3	5
MKM-5021	COMPUTATIONAL FRACTURE MECHANICS	E	3	0	3	3	5
MKM-5022	VIBRATION ENGINEERING	E	3	0	3	3	5
MKM-5023	ADVANCED DYNAMICS AND ITS APPLICATIONS	E	3	0	3	3	5
MKM-5024	INDUSTRIAL ROBOTS	E	3	0	3	3	5
MKM-5025	NEW APPROACH TO PRODUCTION DESIGN	E	3	0	3	3	5
MKM-5026	ADVANCED FLUIDS MECHANICS	E	3	0	3	3	5
MKM-5027	MECHANICAL BEHAVIOR OF MATERIALS	E	3	0	3	3	5
MKM-5028	EXPERIMENTAL METHODS IN MECHANIC	E	3	0	3	3	5
MKM-5029	MECHANISM DESIGN AND KINEMATICS	E	3	0	3	3	5
MKM-5030	MECHATRONIC DESIGN	E	3	0	3	3	5
MKM-5032	MECHATRONIC	E	3	0	3	3	5
MKM-5033	AUTOMATION TECHNOLOGY	E	3	0	3	3	5
MKM-5035	EXPERIMENTAL DESIGN AND ITS ANALYSIS	E	3	0	3	3	5
MKM-5036	ADVANCED HEAT TRANSFER	E	3	0	3	3	5
MKM-5037	EXERGY ANALYSIS IN THERMAL SYSTEMS	E	3	0	3	3	5
MKM-5038	GEOHERMAL ENERGY AND ITS APPLICATIONS	E	3	0	3	3	5
MKM-5039	ADVANCED THERMAL INSULATION APPLICATIONS	E	3	0	3	3	5
MKM-5040	MODAL ANALYSIS	E	3	0	3	3	5
MKM-5041	WEAR AND FRICTION BEHAVIOURS OF MATERIALS	E	3	0	3	3	5
MKM-5042	SURFACE COATING TECHNIQUES	E	3	0	3	3	5