



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



MASTER (MSc) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
BMM-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
BMM-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	
BMM-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
BMM-5602	THESIS PREPARATION	C	0	1	1	0	1	
BMM-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	
BMM-5503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
BMM-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	
BMM-5504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
BMM-5604	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	



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ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
FBE-5001	SCIENTIFIC RESEARCH PRINCIPLES	E	3	0	3	3	5
BMM-5001	ADSORPTION PROCESSES	E	3	0	3	3	5
BMM-5002	BIOMEDICAL NANOSTRUCTURES	E	3	0	3	3	5
BMM-5003	SELECTED SUBJECTS IN BIOMATERIALS	E	3	0	3	3	5
BMM-5004	BIOMEDICAL IMPLANT CHARACTERISATION	E	3	0	3	3	5
BMM-5005	FINITE ELEMENT METHOD IN BIOMEDICAL ENGINEERING	E	3	0	3	3	5
BMM-5006	TIME AND FREQUENCY DOMAIN ANALYSIS OF BIOMEDICAL SIGNALS	E	3	0	3	3	5
BMM-5007	BIOMEDICAL AND DENTAL GREFT MATERIALS	E	3	0	3	3	5
BMM-5008	BIOMECHANICS MODELLING TECHNIQUES	E	3	0	3	3	5
BMM-5009	SELECTED SUBJECTS IN BIOMECHANICS	E	3	0	3	3	5
BMM-5010	BIOSIGNAL ANALYSIS	E	3	0	3	3	5
BMM-5011	SURGICAL PLANNING AND MECHANO-SENSITIVE HAPTIC SCIENCE	E	3	0	3	3	5
BMM-5012	DESIGN AND ANALYSIS OF EXPERIMENTS	E	3	0	3	3	5
BMM-5013	FAILURE ANALYSIS OF IMPLANTS	E	3	0	3	3	5
BMM-5014	PHYSICAL PERFORMANCE TESTS	E	3	0	3	3	5
BMM-5015	PHYSIOLOGICAL CONTROL SYSTEMS	E	3	0	3	3	5
BMM-5016	FUNTIONAL ANATOMY	E	3	0	3	3	5
BMM-5017	FUNDAMENTAL MECHANICS FOR BIOMEDICAL ENGINEERS	E	3	0	3	3	5
BMM-5018	SPONGIOUS MATERIALS TECHNOLOGY	E	3	0	3	3	5
BMM-5019	COMPUTATIONAL MATERIALS SCIENCE	E	3	0	3	3	5
BMM-5020	CARDIOVASCULAR ENGINEERING AND BIOMECHANICS	E	3	0	3	3	5
BMM-5021	CONTROLLED DRUG DELIVERY SYSTEM	E	3	0	3	3	5
BMM-5022	DIGITAL IMAGE PROCESSING WITH MATLAB	E	3	0	3	3	5
BMM-5023	CORROSION MECHANISM AND FAILURES IN METALS	E	3	0	3	3	5
BMM-5024	MOTION BIOMECHANICS	E	3	0	3	3	5
BMM-5025	MOTOR DEVELOPMENT AND PERFORMANCE	E	3	0	3	3	5
BMM-5026	MOTORICAL PROPERTIES AND EXERCISE TECHNIQUES	E	3	0	3	3	5
BMM-5027	ARTIFICIAL INTELLIGENCE IN ENGINEERING	E	3	0	3	3	5
BMM-5028	PRODUCTION AND CHARACTERISATION OF NANOMATERIALS	E	3	0	3	3	5



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			TH	AP	TO	CR	EC
BMM-5029	OBJECT ORIENTED PROGRAMMING	E	3	0	3	3	5
BMM-5030	PROCESSING OF MEDICAL IMAGES IN DIGITAL MEDIA	E	3	0	3	3	5
BMM-5031	STRUCTURES & PROPERTIES OF BONE	E	3	0	3	3	5
BMM-5032	OPTIMIZATION IN DESIGN AND PRODUCTION	E	3	0	3	3	5
BMM-5033	THERAPEUTIC MEDICAL DEVICES	E	3	0	3	3	5
BMM-5034	DESIGN OF MEDICAL DEVICES	E	3	0	3	3	5
BMM-5035	ADVANCED TOPICS IN MEDICAL IMAGING	E	3	0	3	3	5
BMM-5036	TISSUE BIOMECHANICS	E	3	0	3	3	5
BMM-5037	TISSUE-BIOMATERIAL INTERACTIONS	E	3	0	3	3	5
BMM-5038	SURFACE ANALYSIS	E	3	0	3	3	5