



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF METAL EDUCATION



MASTER (MSc) PROGRAM

FIRST YEAR

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



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GRADUATE PROGRAMS

ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
FBE-5001	SCIENTIFIC RESEARCH AND METHODS	E	3	0	3	3	5
MET-5001	CASTING AND SOLIDIFICATION STRUCTURE	E	3	0	3	3	5
MET-5002	CORROSION MECHANISM AND FAILURES IN METALS	E	3	0	3	3	5
MET-5003	TECHNIQUES OF SURFACE HARDENING	E	3	0	3	3	5
MET-5004	CAST IRON TECHNOLOGY	E	3	0	3	3	5
MET-5005	METAL-CERAMIC COMPOSITES	E	3	0	3	3	5
MET-5006	COATING TECHNIQUES	E	3	0	3	3	5
MET-5007	WELD DESIGN	E	3	0	3	3	5
MET-5008	ADVANCED MICROSCOPY TECHNIQUES	E	3	0	3	3	5
MET-5009	NONMETALIC MATERIALS AND THEIR TECHNOLOGIES	E	3	0	3	3	5
MET-5010	HIGH TEMPERATURE MATERIALS	E	3	0	3	3	5
MET-5011	MECHANICAL BEHAVIOUR OF MATERIALS	E	3	0	3	3	5
MET-5012	WELD DEFECTS AND INSPECTION	E	3	0	3	3	5
MET-5013	X RAYS	E	3	0	3	3	5
MET-5014	HEAT TREATMENT THEORIES AND TECHNOLOGY OF METALS	E	3	0	3	3	5
MET-6001	FRACTURE MECHANICS	E	3	0	3	3	5
MET-6002	ADVANCED PHYSICAL METALLURGY	E	3	0	3	3	5
MET-6003	PHASE TRANSFORMATIONS	E	3	0	3	3	5
MET-6004	HEAT TREATMENT OF NONFERROUS ALLOYS	E	3	0	3	3	5
MET-6005	PLASMA ASSISTED SURFACE PROCESSING	E	3	0	3	3	5
MET-6006	TRIBOLOGY OF METALS	E	3	0	3	3	5
MET-6007	POROUS MATERIALS TECHNOLOGY	E	3	0	3	3	5
MET-6008	WELD MICROSTRUCTURES AND THEIR PROPERTIES	E	3	0	3	3	5
MET-6009	HEAT TREATMENT OF WELDS	E	3	0	3	3	5
MET-6010	INTERMETALLICS	E	3	0	3	3	5
MET-6011	METALLIC GLASSES	E	3	0	3	3	5
MET-6012	TECHNOLOGY OF BIOMATERIALS	E	3	0	3	3	5
MET-6013	SINTERING TECHNIQUES	E	3	0	3	3	5
MET-6014	ADVANCED WELDING TECHNIQUES	E	3	0	3	3	5
EGT-6001	DEVELOPMENT AND LEARNING	E	3	0	3	3	5
EGT-6002	INSTRUCTIONAL PLANNING AND EVALUATION	E	3	0	3	3	5