



# AFYON KOCATEPE UNIVERSITY

## GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES

### DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING



## MASTER (MSc) PROGRAM

### FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MTM-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MTM-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	
<b>TOTAL</b>			<b>20</b>	<b>1</b>	<b>21</b>	<b>12</b>	<b>30</b>	

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MTM-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MTM-5602	THESIS PREPARATION	C	0	1	1	0	1	
MTM-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	
<b>TOTAL</b>			<b>17</b>	<b>3</b>	<b>20</b>	<b>9</b>	<b>30</b>	



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### SECOND YEAR

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

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

### 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
MTM-5001	ENGINEERING MATHEMATICS	E	3	0	3	3	5
MTM-5002	PHASE TRANSFORMATIONS	E	3	0	3	3	5
MTM-5003	CAST IRON TECNOLOGY	E	3	0	3	3	5
MTM-5004	MICROSCOPIC AND MICROSTRUCTURAL CHARACTERIZATION OF METERIALS	E	3	0	3	3	5
MTM-5005	POROUS MATERIALS	E	3	0	3	3	5
MTM-5006	HIGH TEMPERATURE MATERIALS	E	3	0	3	3	5
MTM-5007	WELDING OF LIGHT INDUSTRIAL METALS AND ALLOYS	E	3	0	3	3	5
MTM-5008	COATING TECHNIQUES	E	3	0	3	3	5
MTM-5009	PHSICAL METALLURGY OF WELDING	E	3	0	3	3	5
MTM-5010	SURFACE HARDENING TECHNIQUES	E	3	0	3	3	5
MTM-5012	MECHANICAL BEHAVIOR OF METALLIC MATERIALS	E	3	0	3	3	5
MTM-5013	CORROSION MECHANISMS AND FAILURES IN METALS	E	3	0	3	3	5



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MTM-5014	TRIBOLOGY OF METERIALS	E	3	0	3	3	5
MTM-5015	INTRODUCTION TO FRACTURE MECHANICS	E	3	0	3	3	5
MTM-5017	METAL-CERAMIC COMPOSITES	E	3	0	3	3	5
MTM-5018	THERMAL SPRAY COATING TECHNOLOGIES	E	3	0	3	3	5
MTM-5021	THERMOCHEMICAL COATINGS	E	3	0	3	3	5
MTM-5024	PRODUCTION OF POLYMER MATRIX COMPOSITE	E	3	0	3	3	5
MTM-5025	ACADEMIC ENGLISH FOR GRADUTE STUDIES	E	3	0	3	3	5
MTM-5026	APPLICATIONS OF KINETICS AND HERMODYNAMIC BASICS OF PHASE TRANSFORMATIONS	E	3	0	3	3	5
MTM-5027	JOINING TECHIQUES USED IN BODY PRODUCTION OF AIR AND GROUND VEHICLES	E	3	0	3	3	5
MTM-5028	POLYMER MATRIX COMPOSITIES USED IN AEROSPACE INDUSTRY	E	3	0	3	3	5