



AFYON KOCATEPE UNIVERSITY

GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING



DOCTOR OF PHILOSOPHY (PhD) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MTM-6501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MTM-6601	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	
TOPLAM			20	1	21	12	30	

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MTM-6502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MTM-6602	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	



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SECOND YEAR

THIRD SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MTM-6503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MTM-6603	THESIS PREPARATION	C	0	1	1	0	1	
MTM-6701	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	

FOURTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MTM-6504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MTM-6604	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	



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THIRD YEAR

FIFTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MTM-6505	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MTM-6605	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

SIXTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MTM-6506	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MTM-6606	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

FOURTH YEAR

SEVENTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MTM-6507	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MTM-6607	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

EIGHTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MTM-6508	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MTM-6608	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

ELECTIVE COURSES



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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-6002	CASTING AND SOLIDIFICATION STRUCTURE	E	3	0	3	3	5
MTM-6004	MECHANICAL AND TRIBOLOGICAL PROPERTIES OF COATINGS	E	3	0	3	3	5
MTM-6005	WEAR AND FRICTION PROPERTIES OF HARD COATINGS	E	3	0	3	3	5
MTM-6006	JOINT TECHNICS WITHOUT ARC	E	3	0	3	3	5
MTM-6007	SPECIAL TOPICS IN THE MATERIALS ENGINEERING AND TECHNOLOGIES AND RELATED CHARACTERIZATION TECHNICS	E	3	0	3	3	5
MTM-6008	INTERMETALLIC ALLOYS AND THEIR PROPERTIES	E	3	0	3	3	5
MTM-6009	MANUFACTURING AND JOINING OF AVIATIC AND DEFENCE ALLOYS AND COMPOSITES	E	3	0	3	3	5
MTM-6010	WEAR MECHANISM OF MATERIALS AND EVALUATION METHODS	E	3	0	3	3	5
MTM-6011	MECHANICAL PROPERTIES OF POLIMERIC MATERIALS	E	3	0	3	3	5
MTM-6016	THEORY OF DISLOCATION	E	3	0	3	3	5
MTM-6017	APPLIED FRACTURE MECHANISM	E	3	0	3	3	5
MTM-6019	HIGH TEMPERATURE CORROSION	E	3	0	3	3	5
MTM-6020	PROCESS-STRUCTURE-PROPERTY RELATIONS IN THE METALLIC MATERIALS	E	3	0	3	3	5
MTM-6021	PROCESS-STRUCTURE-PROPERTY RELATIONS IN THE NONMETALLIC MATERIALS	E	3	0	3	3	5