



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



MASTER (MSc) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MLZ-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-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	
MLZ-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-5602	THESIS PREPARATION	C	0	1	1	0	1	
MLZ-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	
MLZ-5503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-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	
MLZ-5504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MLZ-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
MLZ-5001	ENGINEERING MATHEMATICS	E	3	0	3	3	5
MLZ-5002	TECHNOLOGY OF ALUMMINA	E	3	0	3	3	5
MLZ-5003	PROCESS PLANNING AND PLANT DESIGN	E	3	0	3	3	5
MLZ-5004	COMPOSITES	E	3	0	3	3	5
MLZ-5005	DIELECTRIC MATERIALS	E	3	0	3	3	5
MLZ-5006	SINTERING OF CERAMICS	E	3	0	3	3	5
MLZ-5007	TECHNICAL GLASSES	E	3	0	3	3	5
MLZ-5008	ADVANCED CERAMOGRAPHY	E	3	0	3	3	5
MLZ-5009	BUSINESS MANAGEMENT	E	3	0	3	3	5
MLZ-5010	SOLID STATE PHYSICS	E	3	0	3	3	5
MLZ-5011	ADVANCED TECHNOLOGY CEMENTS	E	3	0	3	3	5
MLZ-5012	MAGNETIC MATERIALS	E	3	0	3	3	5
MLZ-5013	OPTICAL CERAMICS	E	3	0	3	3	5



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MLZ-5014	ELECTRICAL DAMAGES IN CERAMICS	E	3	0	3	3	5
MLZ-5015	ELECTRONIC CERAMICS	E	3	0	3	3	5
MLZ-5016	PHASE TRANSFORMATION AND KINETICS	E	3	0	3	3	5
MLZ-5017	METALLIC GLASSES	E	3	0	3	3	5
MLZ-5018	ELECTRON MICROSCOPY METHODS	E	3	0	3	3	5
MLZ-5019	INTRODUCTION TO SOL-GEL PROCESSIS	E	3	0	3	3	5
MLZ-5020	TECHNOLOGY OF FIBER MATERIALS	E	3	0	3	3	5
MLZ-5021	MECHANICAL PROPERTIES AND FRACTURE BEHAVIOUR OF CERAMICS	E	3	0	3	3	5
MLZ-5022	SURFACE ANALYSIS	E	3	0	3	3	5
MLZ-5023	BORON TECHNOLOGY	E	3	0	3	3	5
MLZ-5024	EXPERIMENT DESIGN AND ANALYSIS	E	3	0	3	3	5
MLZ-5025	MECHANICS OF POLYMER BASED LAYER COMPOSITES	E	3	0	3	3	5
MLZ-5026	OPTIMIZATION IN DESIGN AND PRODUCTION	E	3	0	3	3	5
MLZ-5027	FABRICATION AND CHARACTERIZATION OF REFRACTORIES	E	3	0	3	3	5
MLZ-5028	FABRICATION AND CHARACTERIZATION OF NANOMATERIALS	E	3	0	3	3	5
MLZ-5029	STRUCTURE AND CRYSTALLOGRAPHY	E	3	0	3	3	5
MLZ-5030	RHEOLOGICAL BEHAVIOR OF CERAMICS	E	3	0	3	3	5
MLZ-5031	TECHNIQUES OF THIN FILM COATING	E	3	0	3	3	5
MLZ-5032	SOLUTIONS THERMODYNAMICS	E	3	0	3	3	5