



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



MASTER (MSc) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MAD-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MAD-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	
MAD-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MAD-5602	THESIS PREPARATION	C	0	1	1	0	1	
MAD-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	
MAD-5503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MAD-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	
MAD-5504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MAD-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
MAD-5001	GEOLOGY OF MARBLE DEPOSITS OF TURKEY	E	3	0	3	3	5
MAD-5002	SOLID/LIQUID SEPARATION METHODS	E	3	0	3	3	5
MAD-5003	CHEMISTRY OF FLOTATION	E	3	0	3	3	5
MAD-5004	PLANNING AND COST CALCULATION	E	2	2	4	3	5
MAD-5006	FIZIBILITY STUDIES IN MARBLE FACTORIES	E	2	2	4	3	5
MAD-5007	OPEN PIT MACHINES	E	3	0	3	3	5
MAD-5008	STABILITY OF CLAY-WATER COLLOIDAL SYSTEMS	E	3	0	3	3	5
MAD-5009	ADVANCED EXCAVATION MECHANICS	E	3	1	4	3	5
MAD-5010	INTRODUCTION AND PRODUCTION METHODS OF NATURAL STONES	E	3	0	3	3	5
MAD-5012	STORING AND UTILIZATION OF MINERAL PROCESSING PLANT WASTES	E	3	0	3	3	5
MAD-5014	INVESTIGATION OF THE SURFACE PROPERTIES OF MINERALS	E	3	1	4	3	5
MAD-5015	QUARRY DESIGN IN SURFACE MINING	E	3	0	3	3	5
MAD-5017	INSTRUMENTAL ANALYSIS TECHNIQUES	E	2	2	4	3	5



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MAD-5019	MINING PLANNING	E	3	0	3	3	5
MAD-5020	INDUSTRIAL RAW MATERIALS AND BENEFICIATION METHODS	E	3	0	3	3	5
MAD-5021	ADVANCED MARBLE CUTTING AND PROCESSING TECHNOLOGIES	E	3	0	3	3	5
MAD-5022	WIRE CUTTING MECHANIZATION IN MARBLE QUARRIES	E	3	0	3	3	5
MAD-5024	PROCESSING METHODS OF BUILDING NATURAL STONES	E	3	0	3	3	5
MAD-5025	NANO-TECHONOLOGY APPLICATIONS IN MINERAL PROCESSING	E	3	0	3	3	5
MAD-5026	TREATMENT METHODS FOR THE METALLIC ORES	E	3	0	3	3	5
MAD-5027	CHEMICAL MINING	E	3	0	3	3	5
MAD-5028	PRENCIPLES AND APLICATIONS OF INDUSTRIAL CLASSIFICATION	E	3	0	3	3	5
MAD-5029	NOVEL TECHNOLOGIES IN MINERAL PROCESSING	E	3	0	3	3	5
MAD-5030	ENRICHMENT METHODS FOR THE GOLD ORES	E	3	0	3	3	5
MAD-5031	ENVIRONMENTAL PROBLEMS INDUCED BY BLASTING AND CONTROLLED BLASTING	E	3	0	3	3	5
MAD-5032	COMPUTER APPLICATIONS IN MINING	E	3	0	3	3	5
MAD-5033	MECHANIZATION IN UNDERGROUND MINE OPERATIONS AND ITS EVOLUTION	E	3	0	3	3	5
MAD-5034	OCCUPATIONAL HEALTH AND SAFETY IN UNDERGROUND MINING FACILITIES	E	3	0	3	3	5
MAD-5035	OHS APPLICATIONS AND RISK ANALYSIS IN MINING'S (UNDERGROUND AND OPEN PIT MINING	E	3	0	3	3	5
MAD-5036	MINING MACHINES RELIABILITY AND MAINTANCE PLANING	E	3	0	3	3	5
MAD-5037	CLASSIFIATION AND EVALUATION OF MINERAL RESOURCES	E	3	0	3	3	5
MAD-5039	MODELING AND SIMULATION OF MINERAL PROCESSING	E	2	2	4	3	5
MAD-5046	MINE MACHINERY AND EQUIPMENT SELECTION	E	3	0	3	3	5
MAD-5047	WATER PROBLEMS IN MINING	E	3	0	3	3	5
MAD-5048	FINANCIAL ANALYSIS IN NATURAL STONE SECTOR	E	3	0	3	3	5
MAD-5049	ARTIFICIAL INTELLIGENCE APPLICATIONS IN ENGINEERING	E	3	0	3	3	5
MAD-5050	MARBLE CUTTING AND PROCESSING WITH WATERJET	E	3	0	3	3	5
MAD-5051	ADVANCED COMPUTER APPLICATION IN MINING	E	3	0	3	3	5
MAD-5052	MODERN/ADVANCED TUNNEL SHAFT CONSTRUCTION METHODS	E	3	0	3	3	5
MAD-5046	PROGRESS IN NATURAL STONE TECHNOLOGY	E	3	0	3	3	5
MAD-5053	OCCUPATIONAL HEALTH AND SAFETY IN SURFACE MINING	E	3	0	3	3	5
MAD-5055	RECLAMATION OF MINING SITES	E	3	0	3	3	5