



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



**MASTER (MSc) PROGRAM**

**FIRST YEAR**

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



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**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
JEO-5001	STRUCTURAL ANALYSIS	E	3	0	3	3	5
JEO-5002	ACTIVE TECTONICS	E	3	0	3	3	5
JEO-5003	TECTONIC GEOMORPHOLOGY	E	3	0	3	3	5
JEO-5004	PALAEOSEISMOLOGY	E	3	0	3	3	5
JEO-5005	EARTHQUAKE AND GEOLOGY	E	3	0	3	3	5
JEO-5006	SEDIMENTARY BASIN ANALYSIS	E	3	0	3	3	5
JEO-5007	BIOSTRATIGRAPHY	E	3	0	3	3	5
JEO-5008	FORAMINIFERAL MICROPALAEONTOLOGY	E	3	0	3	3	5
JEO-5009	CARBONATE DEPOSITION ENVIRONMENTS	E	3	0	3	3	5
JEO-5010	NOMENCLATURE RULES IN PALEONTOLOGY	E	3	0	3	3	5
JEO-5011	EXPLORATION METHODS OF HARD FOSSILS	E	3	0	3	3	5
JEO-5012	COAL SCIENCE AND TECHNOLOGY	E	3	0	3	3	5
JEO-5013	COAL PETROGRAPHY	E	3	0	3	3	5
JEO-5014	COAL DEPOSITS OF TURKEY	E	3	0	3	3	5
JEO-5015	ADVANCED IGNEOUS ROCKS PETROGRAPHY	E	3	0	3	3	5
JEO-5016	ADVANCED X-RAY DIFFRACTION	E	3	0	3	3	5
JEO-5017	PROPERTIES AND USES OF CLAY MINERALS	E	3	0	3	3	5
JEO-5018	EVAPORITES	E	3	0	3	3	5
JEO-5019	ADVANCED METAMORPHIC ROCKS PETROGRAPHY	E	3	0	3	3	5
JEO-5020	ORE DEPOSIT ENVIRONMENTS	E	3	0	3	3	5
JEO-5021	THE GEOCHEMISTRY OF ORE DEPOSITE	E	3	0	3	3	5
JEO-5022	DEPOSITS OF INDUSTRIAL MINERAL AND ROCKS AND THEIR USES	E	3	0	3	3	5
JEO-5023	INVESTIGATION OF INDUSTRIAL MINERAL AND ROCKS USING MINERALOGICAL ANALYSIS METHODS	E	3	0	3	3	5
JEO-5024	ORIGIN AND MINERALOGY OF CLAYS	E	3	0	3	3	5
JEO-5025	STRUCTURAL GEOLOGY IN MARBLE AND NATURAL STONE PRODUCTION	E	3	0	3	3	5
JEO-5026	THE WEATHERING IN MARBLE AND NATURAL STONES	E	3	0	3	3	5
JEO-5027	ENGINEERING PROPERTIES OF MARBLES AND NATURAL BUILDING STONES	E	3	0	3	3	5
JEO-5028	GEOLOGY OF GEOTHERMAL	E	3	0	3	3	5



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**ELECTIVE COURSES**

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
JEO-5029	THE METHODS OF GEOTHERMAL FIELD RESEARCH	E	3	0	3	3	5
JEO-5030	BOREHOLE GEOLOGY IN GEOTHERMAL SYSTEMS	E	3	0	3	3	5
JEO-5031	UTILIZATION OF SOFTWARES IN HYDROGEOCHEMISTRY	E	3	0	3	3	5
JEO-5032	GEOTHERMOMETER APPLICATIONS GEOTHERMAL FIELDS	E	3	0	3	3	5
JEO-5033	HYDROGEOCHEMISTRY OF GEOTHERMAL WATERS	E	3	0	3	3	5
JEO-5034	GROUNDWATER AND CONVEINENCE FEATURES	E	3	0	3	3	5
JEO-5035	ENGINEERING GEOLOGY CASE STUDIE	E	3	0	3	3	5
JEO-5036	FIELD INVESTIGATION AND GEOTECHNICAL EVALUATION	E	3	0	3	3	5
JEO-5037	SLOPE STABILITY	E	3	0	3	3	5
JEO-5038	GROUND IMPROVEMENT	E	3	0	3	3	5