



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



**MASTER (MSc) PROGRAM**

**FIRST YEAR**

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

**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
OTM-5001	VEHICLE DYNAMICS	E	3	0	3	3	5
OTM-5002	VEHICLE ACCIDENT ANALYSIS	E	3	0	3	3	5
OTM-5003	VEHICLE DAMAGE ANALYSIS	E	3	0	3	3	5
OTM-5004	ADVANCED VEHICLE SAFETY SYSTEMS	E	3	0	3	3	5
OTM-5005	VEHICLE TRANSMISSION AND ANALYSIS METHODS	E	3	0	3	3	5
OTM-5006	VEHICLE SUSPENSION SYSTEM METHOD AND ANALYSIS	E	3	0	3	3	5
OTM-5007	VEHICLE TIRES AND ANALYSIS	E	3	0	3	3	5
OTM-5008	ENGINE INJECTION SYSTEMS	E	3	0	3	3	5
OTM-5009	FUEL AND BURNING EVENTS IN ENGINE	E	3	0	3	3	5
OTM-5010	ANALYSIS OF INTERNAL COMBUSTION ENGINES COMBUSTION	E	3	0	3	3	5
OTM-5011	VEHICLE EMISSIONS AND CONTROL TECHNIQUES	E	3	0	3	3	5
OTM-5012	ENERGY CONVERSION IN THERMAL ENGINE	E	3	0	3	3	5
OTM-5013	NATURAL ENERGY SOURCES	E	3	0	3	3	5
OTM-5014	BIODIESEL PRODUCTION METHODS AND TESTS	E	3	0	3	3	5
OTM-5015	TURBOCHARGED ENGINES	E	3	0	3	3	5
OTM-5016	MATERIALS SCIENCE IN AUTOMOTIVE TECHNOLOGY	E	3	0	3	3	5
OTM-5017	RESEARCH AND EXPERIMENTAL TECHNIQUES FOR VEHICLE ENGINES	E	3	0	3	3	5
OTM-5018	AUTOMOTIVE PRODUCTION AND ASSEMBLY TECHNOLOGIES	E	3	0	3	3	5
OTM-5019	VEHICLE INDUSTRY REGULATIONS	E	3	0	3	3	5
OTM-5020	COMPUTER SIMULATION IN AUTOMOTIVE ENGINEERING	E	3	0	3	3	5
OTM-5021	VEHICLE GUIDANCE AND ANALYSIS	E	3	0	3	3	5
OTM-5022	INTER METALLIC MATERIALS	E	3	0	3	3	5
OTM-5023	METHODS USED IN AUTOMOTIVE INDUSTRY RESOURCES	E	3	0	3	3	5
OTM-5024	NANO MATERIALS MADE IN AUTOMOTIVE INDUSTRY	E	3	0	3	3	5
OTM-6001	OFF-ROAD VEHICLES AND DYNAMICS	E	3	0	3	3	5
OTM-6002	VEHICLE OPTIONS AND INNOVATIVE APPROACH	E	3	0	3	3	5
OTM-6003	AUTOMOTIVE ELECTRONICS AND SENSORS APPLICATIONS	E	3	0	3	3	5
OTM-6004	FUEL ECONOMY AND PERFORMANCE IN ENGINES	E	3	0	3	3	5
OTM-6005	APPLIED NUMERICAL METHODS	E	3	0	3	3	5
OTM-6006	TRIBOLOGICAL AUTOMOTIVE SYSTEMS	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
OTM-6007	VEHICLE CONTROL SYSTEMS	E	3	0	3	3	5
OTM-6008	OPEN SOURCE SOFTWARE WITH CFD AUTOMOTIVE APPLICATIONS	E	3	0	3	3	5
OTM-6009	HEAVY VEHICLE AND DYNAMICS	E	3	0	3	3	5
OTM-6010	LIGHT VEHICLE AND DYNAMICS	E	3	0	3	3	5
OTM-6011	VEHICLE BRAKING SYSTEMS AND ANALYSIS METHODS	E	3	0	3	3	5
OTM-6012	CELLULAR METALS	E	3	0	3	3	5
OTM-6013	AUTOMOTIVE APPLICATIONS DEVELOPMENT	E	3	0	3	3	5
OTM-6014	AUTOMOTIVE COMPOSITES APPLICATIONS	E	3	0	3	3	5
OTM-6015	VEHICLE COMFORT SYSTEMS TECHNOLOGY	E	3	0	3	3	5
OTM-6016	ADVANCED AUTOMOTIVE SUPPLIES	E	3	0	3	3	5
OTM-6017	REVERSE ENGINEERING APPLICATIONS IN AUTOMOTIVE INDUSTRY	E	3	0	3	3	5
OTM-6018	ADVANCED VEHICLE DESIGN	E	3	0	3	3	5
OTM-6019	AUTOMOTIVE DESIGN CHEMICAL APPLICATIONS	E	3	0	3	3	5
OTM-6020	DYNAMICS OF GAS	E	3	0	3	3	5
OTM-6021	AUTOMOTIVE MANUFACTURING SYSTEMS AND STANDARDS	E	3	0	3	3	5
OTM-6022	VEHICLE VIBRATIONS	E	3	0	3	3	5
OTM-6023	LIFE TESTS IN VEHICLES	E	3	0	3	3	5
OTM-6024	ADVANCED WELDING TECHNOLOGIES IN AUTOMOTIVE INDUSTRY	E	3	0	3	3	5
OTM-6025	AUTOMOTIVE PLASTIC DEFORMATION OF MATERIALS	E	3	0	3	3	5
EGT-6001	DEVELOPMENT AND LEARNING	E	3	0	3	3	5
EGT-6002	INSTRUCTIONAL PLANNING AND EVALUATION	E	3	0	3	3	5