

FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF AUTOMOTIVE ENGINEERING AUTOMOTIVE ENGINEERING PROGRAMME (IN ENGLİSH)

UNDERGRADUATE CURRICULUM

Document Code: FR.OGR.200

Revision Number: 02

blish Date: 25.06.1999

OKAN UNIVERSIT

Code	Course Title	T	A	С	ECTS	Status	Prerequisite
MATH113	Mathematics I	3	2	4	6	Compulsory	
ATA111	Atatürk Principles and The History of Turkish Revolution I	2	0	2	2	Compulsory	
PHYS113	Physics-I	2	2	3	5	Compulsory	
TRD111	Turkish-I	2	0	2	2	Compulsory	
ME101	Introduction to Mechanical / Automotive Engineering	3	0	3	6	Compulsory	
CHM103	Chemistry	2	2	3	5	Compulsory	
	Foreign Language Elective	2	2	3	4	Elective	
	Total Credit			20	30		

Semester 3 Code	Course Title	T	A	С	ECTS	Status	Prerequisite
MATH215	Mathematics III	2	2	3	6	Compulsory	MATH113
ME201	Computer Aided Technical Drawing	2	2	3	5	Compulsory	
ME213	Engineering Materials	2	2	3	7	Compulsory	
ME209	Thermodynamics I	3	0	3	7	Compulsory	
IE367	Occupational Health and Safety	3	0	3	5	Compulsory	
	Total Credit			15	30		

Semester 5							
Code	Course Title	T	Α	C	ECTS	Status	Prerequisite
AUTO303	Vehicle Development Fundamentals	3	0	3	5	Compulsory	
ME315	Mechanical Experimental Lab I	2	2	3	5	Compulsory	
ME305	Machine Design I	3	0	3	5	Compulsory	
ME307	Fluid Mechanics I	3	0	3	5	Compulsory	
ME309	Dynamics	3	0	3	5	Compulsory	
ME313	Systems and Control	3	0	3	5	Compulsory	
	Total Credit			18	30		

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Course Title	T	Α	C	ECTS	Status	Prerequisite
Automotive Lab	2	2	3	8	Compulsory	
Automotive Engineering Design	0	2	1	4	Compulsory	
Entrepreneurship Applications	2	0	2	3	Compulsory	
Vehicle Dynamics	3	0	3	5	Compulsory	
Internal Combustion Engines	3	0	3	5	Compulsory	
Heat Transfer II	3	0	3	7	Compulsory	
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Total Credit			15	32		
	Course Title Automotive Lab Automotive Engineering Design Entrepreneurship Applications Vehicle Dynamics Internal Combustion Engines Heat Transfer II	Course Title IT Automotive Lab 2 Automotive Engineering Design 0 Entrepreneurship Applications 2 Vehicle Dynamics 3 Internal Combustion Engines 3 Heat Transfer II 3	Course Title T IA Automotive Lab 2 2 Automotive Engineering Design 0 2 Entrepreneurship Applications 2 0 Vehicle Dynamics 3 0 Internal Combustion Engines 3 0 Heat Transfer II 3 0	Course Title IT IA C Automotive Lab 2 2 3 Automotive Engineering Design 0 2 1 Entrepreneurship Applications 2 0 2 Vehicle Dynamics 3 0 3 Internal Combustion Engines 3 0 3 Heat Transfer II 3 0 3	Course Title T A C ECTS Automotive Lab 2 2 3 8 Automotive Engineering Design 0 2 1 4 Entrepreneurship Applications 2 0 2 3 3 5 Internal Combustion Engines 3 0 3 5 5 Heat Transfer II 3 0 3 7 7	Course Title T A C ECTS Status Automotive Lab 2 2 3 8 Compulsory Automotive Engineering Design 0 2 1 1 Compulsory Entrepreneurship Applications 2 0 2 3 Compulsory Vehicle Dynamics 3 0 3 Compulsory Internal Combustion Engines 3 0 3 Compulsory Heat Transfer II 3 0 3 Compulsory

TOTAL CREDIT	133
TOTAL ECTS	240

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
MATH114	Mathematics II	3	2	4	6	Compulsory	MATH113
ATA112	Atatürk Principles and The History of Turkish Revolution II	2	0	2	2	Compulsory	
PHYS114	Physics-II	2	2	3	5	Compulsory	PHYS113
TRD112	Turkish-II	2	0	2	2	Compulsory	
ME102	Statics for Mechanical Engineers	3	0	3	8	Compulsory	
CLP001	Career and Life Planning	0	2	1	3	Compulsory	
	Foreign Language Elective	2	2	3	4	Elective	
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Semester 4							
Code	Course Title	T	Α	C	ECTS	Status	Prerequisite
MATH216	Mathematics IV	2	2	3	6	Compulsory	MATH114
ME210	Mechanics of Materials I	3	0	3	5	Compulsory	
ME212	Computer Aided Mechanical Design	2	2	3	6	Compulsory	
CMPE152	Computer Programming	2	2	3	5	Compulsory	
	University Elective	3	0	3	4	Elective	
INT001	Internship I	0	0	0	4	Compulsory	
	Total Credit			15	30		

Code	Course Title	т	Α	C	ECTS	Status	Prerequisite
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ME302	Heat Transfer I	3	0	3	4	Compulsory	
ME306	Machine Design II	3	0	3	4	Compulsory	l
ME310	Theory of Machines	3	0	3	6	Compulsory	
AUTO308	Automotive Electronics and Mechatronics	3	0	3	5	Compulsory	
AUTO312	Automotive Production Processes,	3	0	3	7	Compulsory	
	Quality Assurance and Production management						
MAHT220	Numerical Methods	2	2	3	4	Compulsory	MATH113
	Total Credit			18	30		

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
AUTO498	Automotive Engineering Graduation Project	0	4	2	4	Compulsory	
	Deparmental Elective	3	0	3	5	Elective	
	Deparmental Elective	3	0	3	5	Elective	
	Faculty Elective	3	0	3	5	Elective	
	Faculty Elective	3	0	3	5	Elective	
INT002	Internship II	0	0	0	4	Compulsory	
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	Total Credit			14	28		

 $Abbreviations: T=Weekly\ hours:\ theoretical;\ A=Weekly\ hours:\ application;\ C=Credits\ in\ Turkish\ System;\ ECTS=European\ Credit\ Transfer\ System$



ELECTIVE COURSES

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Semeste	er 3								
Code	Course Title					C	ECTS	Status	Prerequisite
		SECOND FOREI	GN LANGUA	G	E				
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		FACULTY	ELECTIVE						
		UNIVERSIT	ELECTIVE						

Code	Course Title		T	A	C	ECTS	Status	Prerequisite
	SECO	FOREIGN LANGUA	١GI	E				
	DEF	TMENTAL ELECTI	VE					
		ULTY ELECTIVE						
	U	ERSITY ELECTIVE						

Code	Course Title		T	A	C	ECTS	Status	Prerequisite
	SECON	D FOREIGN LANGUA	GI	3				
	DEPA	RTMENTAL ELECTIV	Æ	_				
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Semester	- 2	
Code	Course Title	T A C ECTS Status Prerequisite
	FOREIG	N LANGUAGE ELECTIVE
	DEPA	RTMENTAL ELECTIVE
	F	ACULTY ELECTIVE
	UN	IVERSITY ELECTIVE

Code	Course Title	T	١.	A	C	ECTS	Status	Prerequisite
	SECO	D FOREIGN LANGUAGE	E					
	DEPA	RTMENTAL ELECTIVE						
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	F	ACULTY ELECTIVE						
	UN	IVERSITY ELECTIVE						

Code	Course Title		T	A	C	ECTS	Status	Prerequisite
	SECON	FOREIGN LANGUA	GE					
	DEPA	TMENTAL ELECTIV	Έ					
	F.	CULTY ELECTIVE						
	UN	ERSITY ELECTIVE						

Code	Course Title	T	A	C	ECT:	Status	Prerequisi
	SECOND FOREIGN LA	NGUAGE					
	DEPARTMENTAL ELI	ECTIVE					
AUTO473	Automotive Aerodynamics and Thermal Systems	3	0	3	5	Elective	
AUTO 474	Fundamentals of Electric Vehicles	3	0	3	5	Elective	
AUTO 476	Vehicle Controls and Autonomous Vehicles	3	0	3	5	Elective	
ME455	Fluid Mechanics II	3	0	3	5	Elective	
ME452	Vibration	3	0	3	5	Elective	
ME453	Thermodynamics II	3	0	3	5	Elective	
ME454	Mechanical Behavior of Materials	3	0	3	5	Elective	
ME458	Introduction to Finite Element Analysis	3	0	3	5	Elective	
ME460	HVAC	3	0	3	5	Elective	
ME461	Systems and Control II	3	0	3	5	Elective	1
ME491	Special Topics in Mechanical Engineering	3	0	3	5	Elective	1
AUTO490	Automotive Engineering O'COOP 1	3	0	3	5	Elective	
AUTO492	Automotive Engineering O'COOP 2	3	0	3	5	Elective	
AUTO494	Automotive Engineering O'COOP 3	3	0	3	5	Elective	
AUTO496	Automotive Engineering O'COOP 4	3	0	3	5	Elective	
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ME455	Fluid Mechanics II	3	0	3	5	Elective	
ME452	Vibration	3	0	3	5	Elective	+
ME453	Thermodynamics II	3	0	3	5	Elective	+
ME454	Mechanical Behavior of Materials	3	0	3	5	Elective	
ME458	Introduction to Finite Element Analysis	3	0	3	5	Elective	
ME460	HVAC	3	0	3	5	Elective	
ME461	Systems and Control II	3	0	3	5	Elective	
ME491	Special Topics in Mechanical Engineering	3	0	3	5	Elective	+
	Automotive Aerodynamics and Thermal Systems	3	0	3	5	Elective	+
	Fundamentals of Electric Vehicles	3	0	3	5	Elective	+
	Vehicle Controls and Autonomous Vehicles	3	0	3	5	Elective	
	Automotive Engineering O'COOP 1	3	0	3	5	Elective	
AUTO492	Automotive Engineering O'COOP 2	3	0	3	5	Elective	
AUTO494	Automotive Engineering O'COOP 3	3	0	3	5	Elective	
AUTO496	Automotive Engineering O'COOP 4	3	0	3	5	Elective	
ENG302	Fuzzy Logic and Its Applications	3	0	3	5	Elective	
ENG304	Technology Manangement	3	0	3	5	Elective	
ENG304	Introduction to Web Programming	3	0	3	5	Elective	
ENG308	Energy Policy	3	0	3	5	Elective	
ENG316	Introduction to Traffic Engineering	3	0	3	5	Elective	
ENG318	Introduction to Environmental Engineering	3	0	3	5	Elective	1
ENG370	Principles of Machine Learning	3	0	3	5	Elective	1
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