

FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF MECHANICAL ENGINEERING MECHANICAL ENGINEERING PROGRAMME (IN ENGLISH)

UNDERGRADUATE CURRICULUM

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Semester 1							
Code	Course Title	T	A	C	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	
			<u> </u>				
	Total						

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	
	Tot	al Cr	edit	18	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 Cre	dit	15	30		

Code	Course Title	T	A	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 Cr	edit	15	30		

Semester 5							
Code	Course Title	T	A	C	ECTS	Status	Prerequisite
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	
EEE207	Circuit Analysis	3	0	3	5	Compulsory	
		Total Cr	edit	18	30		

Semester 6							
Code	Course Title	T	A	C	ECTS	Status	Prerequisite
ME302	Heat Transfer I	3	0	3	4	Compulsory	
ME306	Machine Design II	3	0	3	4	Compulsory	
ME310	Theory of Machines	3	0	3	6	Compulsory	
ME318	Manufacturing Techniques	3	0	3	7	Compulsory	
ME320	Principles of Mechatronics	2	2	3	5	Compulsory	
MATH220	Numerical Methods	2	2	3	4	Compulsory	MATH113
		Total Cr	edit	18	30		

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
ME407	Mechanical Experimental Lab II	2	2	3	8	Compulsory	
ME497	Mechanical Engineering Design	0	2	1	4	Compulsory	
BBA222	Entrepreneurship Applications	2	0	2	3	Compulsory	
ME409	Heat Transfer II	3	0	3	7	Compulsory	
	Departmental Elective	3	0	3	5	Elective	
	Departmental Elective	3	0	3	5	Elective	
		Total Cre	dit	15	32		

Semester a							
Code	Course Title	T	A	C	ECTS	Status	Prerequisite
ME498	Mechanical Engineering Graduation Project	0	4	2	4	Compulsory	
	Departmental Elective	3	0	3	5	Compulsory	
	Departmental 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	
		Total C	and	+ 1	1 20		

TOTAL CREDIT	133
TOTAL ECTS	240

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



ELECTIVE

Code		_		_			
	Course Title	T	A	C	ECTS	Status	Prerequisite
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	FACULTY ELECTIVE		_	_	L	l	
	FACULTY ELECTIVE	_	_	_			
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	UNIVERSITY ELECTIVE	:					
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Semester 5	+	-		-			
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	UNIVERSITY ELECTIVE	_	_	_			
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Semester 7			_	_			
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			_				
	DEPARTMENTAL ELECTI	VE					
ME451	Engineering Applications of Dynamics	3	0	3	5	Elective	
			U				
			0		5	Elective	
ME453	Thermodynamics II	3	0	3	5	Elective	
ME453 ME455	Thermodynamics II Fluid Mechanics II	3	0	3	5	Elective	
ME453 ME455 ME457	Thermodynamics II Fluid Mechanics II Mechanics of Materials II	3	0	3	5 5	Elective Elective	
ME453 ME455 ME457 ME461	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II	3 3 3	0 0 0	3 3 3	5 5 5	Elective Elective	
ME453 ME455 ME457 ME461 ME491	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Special Topics in Mechanical Engineering	3 3 3 3	0 0 0 0	3 3 3 3	5 5 5 5	Elective Elective Elective	
ME453 ME455 ME457 ME461 ME491 ME458	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Special Topics in Mechanical Engineering Introduction to Finite Element Analysis	3 3 3 3 3	0 0 0 0	3 3 3 3 3	5 5 5 5	Elective Elective Elective Elective	
ME453 ME455 ME457 ME461 ME491 ME458 AUTO407	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Special Topics in Mechanical Engineering Introduction to Finite Element Analysis Vehicle Dynamics	3 3 3 3 3 3	0 0 0 0 0	3 3 3 3	5 5 5 5 5 5	Elective Elective Elective Elective Elective Elective	
ME453 ME455 ME457 ME461 ME491 ME458 AUTO407	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Special Topics in Mechanical Engineering Introduction to Finite Element Analysis Vehicle Dynamics	3 3 3 3 3	0 0 0 0	3 3 3 3 3	5 5 5 5	Elective Elective Elective Elective Elective Elective	
ME453 ME455 ME457 ME461 ME491 ME458 AUTO407 AUTO471	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Special Topics in Mechanical Engineering Introduction to Finite Element Analysis Vehicle Dynamics Automotive Body and Interior Design	3 3 3 3 3 3 3	0 0 0 0 0 0	3 3 3 3 3 3	5 5 5 5 5 5 5	Elective Elective Elective Elective Elective Elective Elective	
ME453 ME455 ME457 ME461 ME491 ME458 AUTO407 AUTO471	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Special Topics in Mechanical Engineering Introduction to Finite Element Analysis Vehicle Dynamics Automotive Body and Interior Design Automotive Rodynamics and Thermal Systems	3 3 3 3 3 3 3 3	0 0 0 0 0 0	3 3 3 3 3 3 3	5 5 5 5 5 5 5 5	Elective Elective Elective Elective Elective Elective Elective Elective Elective	
ME453 ME455 ME457 ME461 ME491 ME458 AUTO407 AUTO471 AUTO473 AUTO473	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Systems and Control II Special Topics in Mechanical Engineering Introduction to Finite Element Analysis Vehicle Dynamics Automotive Body and Interior Design Automotive Aerodynamics and Thermal Systems Vehicle Development Fundamentals	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5	Elective	
ME453 ME455 ME457 ME461 ME491 ME458 AUTO407 AUTO473 AUTO473 AUTO473 AUTO411	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Special Topics in Mechanical Engineering Introduction to Finite Element Analysis Vehicle Dynamics Automotive Body and Interior Design Automotive Body and Interior Design Automotive Acrodynamics and Thermal Systems Vehicle Development Fundamentals Internal Combustion Engines	3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	3 3 3 3 3 3 3	5 5 5 5 5 5 5 5	Elective	
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ME453 ME455 ME457 ME461 ME491 ME458 AUTO407 AUTO473 AUTO473 AUTO473 AUTO411	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Systems and Control II Special Topics in Mechanical Engineering Introduction to Finite Element Analysis Vehicle Dynamics Automotive Body and Interior Design Automotive Aerodynamics and Thermal Systems Vehicle Development Fundamentals Internal Combustion Engines IHVAC	3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5	Elective	
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ME453 ME455 ME455 ME457 ME461 ME491 ME458 AUTO407 AUTO473 AUTO473 AUTO473 AUTO411 ME460	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Systems and Control II Special Topics in Mechanical Engineering Introduction to Finite Element Analysis Vehicle Dynamics Automotive Body and Interior Design Automotive Aerodynamics and Thermal Systems Vehicle Development Fundamentals Internal Combustion Engines IHVAC	3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5	Elective	
ME453 ME455 ME457 ME461 ME491 ME458 AUTO407 AUTO473 AUTO473 AUTO473 AUTO411	Thermodynamics II Fluid Mechanics II Mechanics of Materials II Systems and Control II Systems and Control II Special Topics in Mechanical Engineering Introduction to Finite Element Analysis Vehicle Dynamics Automotive Body and Interior Design Automotive Aerodynamics and Thermal Systems Vehicle Development Fundamentals Internal Combustion Engines IHVAC	3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5	Elective	
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Code	Course Title	æ	١,	C	ECTS	64-4-	n
Code	FOREIGN LANGUAGE ELECTI	VE	Α	С	ECTS	Status	Prerequisit
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	FACULTY ELECTIVE		L				
	UNIVERSITY ELECTIVE		Г	Т			
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Semester 4							
Code	Course Title SECOND FOREIGN LANGUAG		A	C	ECTS	Status	Prerequisit
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	DEPARTMENTAL ELECTIVE	3					
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	UNIVERSITY ELECTIVE		L			1	
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Semester 6		-	-	-	-	-	
Code	Course Title SECOND FOREIGN LANGUAGE		A	C	ECTS	Status	Prerequisit
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	FACULTY ELECTIVE		Г	П			
	UNIVERSITY ELECTIVE						
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Semester 8	Course Title	Т	A	С	ECTS	Status	Prerequisit
Semester 8 Code	Course Title SECOND FOREIGN LANGUAGE		A	c	ECTS	Status	Prerequisit
	SECOND FOREIGN LANGUAG	E	A	C	ECTS	Status	Prerequisit
	SECOND FOREIGN LANGUAC DEPARTMENTAL ELECTIVI	E	A 0	C 3	ECTS		Prerequisit
ME452 ME454	SECOND FOREIGN LANGUAG DEPARTMENTAL ELECTIVI Vibration Mechanical Behavior of Materials	3 3	0	3	ECTS	Elective Elective	Prerequisit
ME452 ME454 ME458 ME460	SECOND FOREIGN LANGUAGE DEPARTMENTAL ELECTIVE Vibration Mechanical Behavior of Materials Introduction to Finite Element Analysis HVAC	E 3	0	3 3 3	5 5 5 5	Elective Elective Elective	Prerequisit
ME452 ME454 ME458 ME460 ME461	SECOND FOREIGN LANGUAG DEPARTMENTAL ELECTIVI Vibration Mechanical Behavior of Materials Introduction to Finite Element Analysis HVAC Systems and Control II	3 3 3 3	0 0 0 0	3 3 3 3	S S S S S S S S S S	Elective Elective Elective Elective	Prerequisit
ME452 ME454 ME458 ME460 ME461 ME453 ME491	SECOND FOREIGN LANGUAG DEPARTMENTAL ELECTIVI Vibration Mechanical Behavior of Materials Introduction to Finite Element Analysis HVAC Systems and Control II Thermodynamics II Special Topics in Mechanical Engineering	3 3 3 3 3 3	0 0 0 0 0	3 3 3 3 3 3	5 5 5 5 5 5 5 5	Elective Elective Elective Elective Elective Elective Elective	Prerequisit
ME452 ME454 ME458 ME460 ME461 ME453 ME491 AUTO 474	SECOND FOREIGN LANGUAG DEPARTMENTAL ELECTIVI Vibration Mechanical Behavior of Materials Introduction to Finite Element Analysis HVAC Systems and Control II Thermodynamics II Special Topics in Mechanical Engineering Fundamentals of Electric Vehicles	3 3 3 3 3	0 0 0 0 0	3 3 3 3 3 3	5 5 5 5 5 5 5 5 5	Elective Elective Elective Elective Elective Elective Elective	Prerequisit
ME452 ME454 ME458 ME460 ME461 ME453 ME491 AUTO 474 AUTO 476 AUTO 308	SECOND FOREIGN LANGUAG DEPARTMENTAL ELECTIVI Vibration Mechanical Behavior of Materials Introduction to Finite Element Analysis HVAC Systems and Control II Thermodynamics II Special Topics in Mechanical Engineering Fundamentals of Electric Vehicles Vehicle Controls and Autonomous Vehicles Automotive Electronics and Mechatronics	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5	Elective	Prerequisit
ME452 ME454 ME458 ME460 ME461 ME453 ME491 AUTO 474 AUTO 476	DEPARTMENTAL ELECTIVI Vibration Mechanical Behavior of Materials Introduction to Finite Element Analysis HVAC Systems and Control II Thermodynamics II Special Topics in Mechanical Engineering Fundamentals of Electric Vehicles Vehicle Controls and Autonomous Vehicles	3 3 3 3 3 3 3	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5	Elective Elective Elective Elective Elective Elective Elective Elective Elective	Prerequisit
ME452 ME454 ME458 ME460 ME461 ME453 ME491 AUTO 474 AUTO 476 AUTO 308 AUTO473 ENG308 ME490	SECOND FOREIGN LANGUAG DEPARTMENTAL ELECTIVI Vibration Mechanical Behavior of Materials Introduction to Finite Element Analysis HVAC Systems and Control II Thermodynamics II Special Topics in Mechanical Engineering Fundamentals of Electric Vehicles Vehicle Controls and Autonomous Vehicles Automotive Electronics and Mechatronics Automotive Electronics and Mechatronics Automotive Aerodynamics and Thermal Systems Energy Policy Mechanical Engineering O'COOP I	3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Elective	Prerequisit
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ME452 ME454 ME454 ME458 ME460 ME461 ME461 ME491 AUTO 474 AUTO 308 AUTO 473 ENG308 ME490 ME492 ME490 ME492 ME496 ME496	DEPARTMENTAL ELECTIVI Vibration DEPARTMENTAL ELECTIVI Vibration Mechanical Behavior of Materials Introduction to Finite Element Analysis HVAC Systems and Control II Thermodynamics II Special Topics in Mechanical Engineering Fundamentals of Electric Vehicles Vehicle Controls and Autonomous Vehicles Automotive Actorolysman Systems Energy Policy Mechanical Engineering OCOOP 1 Mechanical Engineering OCOOP 2 Mechanical Engineering OCOOP 3 Mechanical Engineering OCOOP 4 FACULTY ELECTIVE Vibration	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Elective	Prerequisit
ME452 ME454 ME454 ME458 ME460 ME461 ME453 ME491 AUTO 474 AUTO 476 AUTO 308 AUTO 476 ME492 ME494 ME492 ME494 ME494 ME452 ME452 ME452	DEPARTMENTAL ELECTIVI Vibration Mechanical Behavior of Materials Introduction to Finite Element Analysis HIVAC Systems and Control II Thermodynamics II Special Topics in Mechanical Engineering Fundamentals of Electric Vehicles Vehicle Controls and Autonomous Vehicles Automotive Electronics and Mechanical Systems Energy Policy Mechanical Engineering OCOOP 1 Mechanical Engineering OCOOP 1 Mechanical Engineering OCOOP 2 Mechanical Engineering OCOOP 3 Mechanical Engineering OCOOP 4 FACULTY ELECTIVE Vibration Wechanical Engineering OCOOP 4 FACULTY ELECTIVE	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Elective	Prerequisit
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