

		Toplam Kredi		12	30			Toplam Kredi		9	30					
TEZ ASAMASI	III. YARIYIL / GÜZ						IV. YARIYIL / BAHAR									
	OTO5183	YÜKSEK LİSANS UZMANLIK ALAN DERSİ III	Z	4	0	0	0	5	OTO5184	YÜKSEK LİSANS UZMANLIK ALAN DERSİ IV	Z	4	0	0	0	5
	OTO5193	YÜKSEK LİSANS TEZ DANIŞMANLIĞI III	Z	0	1	0	0	25	OTO5194	YÜKSEK LİSANS TEZ DANIŞMANLIĞI IV	Z	0	1	0	0	25
	Toplam Kredi		0		30		Toplam Kredi		0		30					
TOPLAM KREDİ: 21 - TOPLAM AKTS: 120																

Not: Öğrenci isterse, danışmanının onayı ile her yarıyıl için **1 (bir)** seçmeli dersini alan dışından da alabilir.



ULUDAĞ UNIVERSITY
INSTITUTE OF NATURAL SCIENCES
2017-2018 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF	AUTOMOTIVE ENGINEERING
DEPARTMENT / PROGRAM	Automotive Engineering/ Master's Degree Program

	I. TERM / FALL								II. TERM / SPRING							
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS
COURSE STAGE	OTO5191	MASTER THESIS I	C	0	1	0	0	1	OTO5192	MASTER THESIS II	C	0	1	0	0	1
									OTO5172	SEMINAR	C	0	2	0	0	6
									OTO5102	NUMERICAL ANALYSIS AND OPTIMIZATION METHODS IN AUTOMOTIVE ENGINEERING	C	3	0	0	3	6
	OTO5181	ADVANCED TOPICS IN MASTER THESIS I	E	4	0	0	0	5	OTO5182	ADVANCED TOPICS IN MASTER THESIS II	E	4	0	0	0	5
	OTO5101	AUTOMOTIVE ENGINEERING	E	3	0	0	3	6	OTO5112	VEHICLE DYNAMICS	E	3	0	0	3	6
	OTO5111	VEHICLE DESIGN	E	3	0	0	3	6	OTO5114	ALTERNATIVE PROOULSION SYSTEMS	E	3	0	0	3	6
	OTO5115	AUTOMOTIVE MATERIALS	E	3	0	0	3	6	OTO5120	PRODUCTION AND ASSEMBLY TECHNOLOGIES	E	3	0	0	3	6
	OTO5117	MOTOR VEHICLES AND THEIR EVOLUTION	E	3	0	0	3	6	OTO5124	ENGINE DESIGN AND CONTROL FUNDAMENTALS	E	3	0	0	3	6
	OTO5119	AUTOMOTIVE TRANSMISSION DESIGN	E	3	0	0	3	6	OTO5128	FINITE ELEMENT APPLICATIONS IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	6
	OTO5121	DEVELOPING FORMS AND DESIGNING THE BODY WORK	E	3	0	0	3	6	OTO5130	VEHICLE INTERIOR DESIGN	E	3	0	0	3	6
	OTO5123	ELECTRIC AND ELECTRONIC SYSTEMS FOR VEHICLES	E	3	0	0	3	6	OTO5134	AERODYNAMIC MODELLING FUNDAMENTALS	E	3	0	0	3	6
	OTO5127	INTERNAL COMBUSTION ENGINE DESIGN	E	3	0	0	3	6	OTO5136	ADVANCED TOPICS IN INTERNAL COMBUSTION ENGINES	E	3	0	0	3	6
	OTO5129	MIXTURE FORMATION IN INTERNAL COMBUSTION ENGINES	E	3	0	0	3	6	OTO5138	VEHICLE OUT EMISSIONS AND THEIR CONTROL	E	3	0	0	3	6
	OTO5131	INTERNAL COMBUSTION ENGINES	E	3	0	0	3	6	OTO5140	ADVANCED MANUFACTURING TECHNIQUES FOR VEHICLES	E	3	0	0	3	6
	OTO5133	APPLICATION OF INTERNAL COMBUSTION ENGINES ON VEHICLE	E	3	0	0	3	6	OTO5142	INTERFACE CIRCUITS IN AUTOMOTIVE ELECTRONICS	E	3	0	0	3	6
	OTO5135	VIBRATION AND NOISE IN VEHICLES	E	3	0	0	3	6	OTO5144	EMBEDDED CONTROL SYSTEMS IN VEHICLES	E	3	0	0	3	6
	OTO5137	FUNDAMENTALS OF FINITE ELEMENT ANALYSIS	E	3	0	0	3	6	OTO5146	INTERNAL COMBUSTION ENGINE TESTS	E	3	0	0	3	6
	OTO5139	NUMERICAL MODELING AND SIMULATION	E	3	0	0	3	6	OTO5148	TRIBOLOGICAL SYSTEMS IN AUTOMOTIVE	E	3	0	0	3	6
	OTO5141	VEHICLE HVAC SYSTEMS AND THERMAL COMFORT	E	3	0	0	3	6	OTO5150	FLUID CONTROL SYSTEMS AND APPLICATION IN VEHICLES	E	3	0	0	3	6
	OTO5143	SENSORS AND ACTUATORS IN VEHICLES	E	3	0	0	3	6	OTO5152	VEHICLE SUSPENSION SYSTEMS DESIGN	E	3	0	0	3	6
	OTO5145	ON-BOARD DIAGNOSTIC SYSTEMS IN VEHICLES	E	3	0	0	3	6	OTO5154	COMPUTER AIDED SIMULATION IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	6
	OTO5147	MODELLING OF ENGINEERING SYSTEMS IN AUTOMOTIVE	E	3	0	0	3	6								
	OTO5149	USE OF POLYMERS IN VEHICLES	E	3	0	0	3	6								
	OTO5151	VEHICLE DISCRETE-TIME CONTROL SYSTEMS	E	3	0	0	3	6								
	OTO5153	ADVANCED STRENGTH OF MATERIALS	E	3	0	0	3	6								

			Total Credits					12	30			Total Credits					9	30	
STAGE THESIS	III. TERM / FALL								IV. TERM / SPRING										
	OTO5183	ADVANCED TOPICS IN MASTER THESIS III	C	4	0	0	0	5	OTO5184	ADVANCED TOPICS IN MASTER THESIS IV	C	4	0	0	0	5			
	OTO5193	MASTER THESIS III	C	0	1	0	0	25	OTO5194	MASTER THESIS IV	C	0	1	0	0	25			
	Total Credits								0	30	Total Credits								0
TOTAL CREDITS: 21 - TOTAL ECTS: 120																			

Not: The student have the option of choosing one selective course from another department with the endorsement of the supervisor.



ULUDAĞ ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
2017-2018 EĞİTİM ÖĞRETİM YILI DERS PLANLARI

ANABİLİM DALI	OTOMOTİV MÜHENDİSLİĞİ
BİLİM DALI / PROGRAMI	Otomotiv Mühendisliği / Yüksek Lisans Programı (İkinci Öğretim)

DERS AŞAMASI	I. YARIYIL / GÜZ							II. YARIYIL / BAHAR								
	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS
	OTO5191	YÜKSEK LİSANS TEZ DANIŞMANLIĞI I	Z	0	1	0	0	1	OTO5192	YÜKSEK LİSANS TEZ DANIŞMANLIĞI II	Z	0	1	0	0	1
									OTO5172	SEMİNER	Z	0	2	0	0	6
									OTO5102	OTOMOTİV MÜHENDİSLİĞİNDE NUMERİK ANALİZ VE OPTİMİZASYON YÖNTEMLERİ	Z	3	0	0	3	6
	OTO5181	YÜKSEK LİSANS UZMANLIK ALAN DERSİ I	S	4	0	0	0	5	OTO5182	YÜKSEK LİSANS UZMANLIK ALAN DERSİ II	S	4	0	0	0	5
	OTO5101	OTOMOTİV MÜHENDİSLİĞİ	S	3	0	0	3	6	OTO5112	TAŞIT DİNAMIĞI	S	3	0	0	3	6
	OTO5111	TAŞIT TASARIMI	S	3	0	0	3	6	OTO5114	ALTERNATİF TAHRİK SİSTEMLERİ	S	3	0	0	3	6
	OTO5115	OTOMOTİV MALZEMELERİ	S	3	0	0	3	6	OTO5120	ÜRETİM VE MONTAJ TEKNOLOJİLERİ	S	3	0	0	3	6
	OTO5117	MOTORLU ARAÇLAR VE GELİŞİMİ	S	3	0	0	3	6	OTO5124	MOTOR TASARIM VE KONTROL TEMELLERİ	S	3	0	0	3	6
	OTO5119	TAŞIT TRANSMİSYON SİSTEMLERİ TASARIMI	S	3	0	0	3	6	OTO5128	OTOMOTİV MÜHENDİSLİĞİNDE SONLU ELEMANLAR UYGULAMALARI	S	3	0	0	3	6
	OTO5121	GÖVDE TASARIM VE FORM GELİŞTİRME	S	3	0	0	3	6	OTO5130	TAŞIT İÇ TASARIMI	S	3	0	0	3	6
	OTO5123	TAŞITLARDA ELEKTRİK VE ELEKTRONİK SİSTEMLER	S	3	0	0	3	6	OTO5134	AERODİNAMİK MODELLEME ESASLARI	S	3	0	0	3	6
	OTO5127	İÇTEN YANMALI MOTORLARIN HESABI VE GELİŞTİRİLMESİ	S	3	0	0	3	6	OTO5136	İÇTEN YANMALI MOTORLARDA ÖZEL KONULAR	S	3	0	0	3	6
	OTO5129	MOTORLARDA KARIŞIM OLUŞUM TEKNİKLERİ	S	3	0	0	3	6	OTO5138	TAŞIT KAYNAKLI KİRLETİCİLER VE KONTROLÜ	S	3	0	0	3	6
	OTO5131	İÇTEN YANMALI MOTORLAR	S	3	0	0	3	6	OTO5140	TAŞITLARDA İLERİ ÜRETİM TEKNOLOJİLERİ	S	3	0	0	3	6
	OTO5133	İÇTEN YANMALI MOTORUN TAŞITA UYGULANMASI	S	3	0	0	3	6	OTO5142	OTOMOTİV ELEKTRONİĞİNDE ARA YÜZ DEVRELERİ	S	3	0	0	3	6
	OTO5135	TAŞITLARDA TİTREŞİM VE GÜRÜLTÜ	S	3	0	0	3	6	OTO5144	TAŞITLARDA GÖMÜLÜ KONTROL SİSTEMLERİ	S	3	0	0	3	6
	OTO5137	SONLU ELEMANLAR ANALİZİNİN ESASLARI	S	3	0	0	3	6	OTO5146	İÇTEN YANMALI MOTOR TESTLERİ	S	3	0	0	3	6
	OTO5139	SAYISAL MODELLEME VE BENZETİM	S	3	0	0	3	6	OTO5148	OTOMOTİVDE TRİBOLOJİK SİSTEMLER	S	3	0	0	3	6
	OTO5141	TAŞIT İKLİMLENDİRME SİSTEMLERİ VE ISIL KONFOR	S	3	0	0	3	6	OTO5150	OTOMOTİVDE AKIŞKAN DENETİM SİSTEMLERİ VE UYGULAMALARI	S	3	0	0	3	6
	OTO5143	TAŞITLARDA SENSÖR VE EYLEYİCİLER	S	3	0	0	3	6	OTO5152	TAŞIT SÜSPANSİYON SİSTEMLERİ	S	3	0	0	3	6
	OTO5145	TAŞITLARDA BÜTÜNLEŞİK TANI KOYMA SİSTEMLERİ	S	3	0	0	3	6	OTO5154	OTOMOTİV MÜHENDİSLİĞİNDE BİLGİSAYAR DESTEKLİ SİMÜLASYON	S	3	0	0	3	6
	OTO5147	OTOMOTİVDE MÜHENDİSLİK SİSTEMLERİNİN MODELLENMESİ	S	3	0	0	3	6								
	OTO5149	TAŞITLARDA POLİMERLERİN KULLANIMI	S	3	0	0	3	6								
	OTO5151	TAŞITLARDA AYRIK ZAMANLI DENETİM SİSTEMLERİ	S	3	0	0	3	6								
	OTO5153	İLERİ MUKAVEMET	S	3	0	0	3	6								
	Toplam Kredi						12	30	Toplam Kredi						9	30

TEZ ASAMASI	III. YARIYIL / GÜZ							IV. YARIYIL / BAHAR									
	OTO5183	YÜKSEK LİSANS UZMANLIK ALAN DERSİ III	Z	4	0	0	0	5	OTO5184	YÜKSEK LİSANS UZMANLIK ALAN DERSİ IV	Z	4	0	0	0	5	
	OTO5193	YÜKSEK LİSANS TEZ DANIŞMANLIĞI III	Z	0	1	0	0	25	OTO5194	YÜKSEK LİSANS TEZ DANIŞMANLIĞIIV	Z	0	1	0	0	25	
			Toplam Kredi				0	30				Toplam Kredi				0	30
TOPLAM KREDİ: 21 - TOPLAM AKTS: 120																	

Not: Öğrenci isterse, danışmanının onayı ile her yarıyıl için **1 (bir)** seçmeli dersini alan dışından da alabilir.



ULUDAĞ UNIVERSITY
INSTITUTE OF NATURAL SCIENCES
2017-2018 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF	AUTOMOTIVE ENGINEERING
DEPARTMENT / PROGRAM	Automotive Engineering/ Master's Degree Program (Secondary Education)

COURSE STAGE	I. TERM / FALL								II. TERM / SPRING							
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS
	OTO5191	MASTER THESIS I	C	0	1	0	0	1	OTO5192	MASTER THESIS II	C	0	1	0	0	1
									OTO5172	SEMINAR	C	0	2	0	0	6
									OTO5102	NUMERICAL ANALYSIS AND OPTIMIZATION METHODS IN AUTOMOTIVE ENGINEERING	C	3	0	0	3	6
	OTO5181	ADVANCED TOPICS IN MASTER THESIS I	E	4	0	0	0	5	OTO5182	ADVANCED TOPICS IN MASTER THESIS II	E	4	0	0	0	5
	OTO5101	AUTOMOTIVE ENGINEERING	E	3	0	0	3	6	OTO5112	VEHICLE DYNAMICS	E	3	0	0	3	6
	OTO5111	VEHICLE DESIGN	E	3	0	0	3	6	OTO5114	ALTERNATIVE PROOULSION SYSTEMS	E	3	0	0	3	6
	OTO5115	AUTOMOTIVE MATERIALS	E	3	0	0	3	6	OTO5120	PRODUCTION AND ASSEMBLY TECHNOLOGIES	E	3	0	0	3	6
	OTO5117	MOTOR VEHICLES AND THEIR EVOLUTION	E	3	0	0	3	6	OTO5124	ENGINE DESIGN AND CONTROL FUNDAMENTALS	E	3	0	0	3	6
	OTO5119	AUTOMOTIVE TRANSMISSION DESIGN	E	3	0	0	3	6	OTO5128	FINITE ELEMENT APPLICATIONS IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	6
	OTO5121	DEVELOPING FORMS AND DESIGNING THE BODY WORK	E	3	0	0	3	6	OTO5130	VEHICLE INTERIOR DESIGN	E	3	0	0	3	6
	OTO5123	ELECTRIC AND ELECTRONIC SYSTEMS FOR VEHICLES	E	3	0	0	3	6	OTO5134	AERODYNAMIC MODELLING FUNDAMENTALS	E	3	0	0	3	6
	OTO5127	INTERNAL COMBUSTION ENGINE DESIGN	E	3	0	0	3	6	OTO5136	ADVANCED TOPICS IN INTERNAL COMBUSTION ENGINES	E	3	0	0	3	6
	OTO5129	MIXTURE FORMATION IN INTERNAL COMBUSTION ENGINES	E	3	0	0	3	6	OTO5138	VEHICLE OUT EMISSIONS AND THEIR CONTROL	E	3	0	0	3	6
	OTO5131	INTERNAL COMBUSTION ENGINES	E	3	0	0	3	6	OTO5140	ADVANCED MANUFACTURING TECHNIQUES FOR VEHICLES	E	3	0	0	3	6
	OTO5133	APPLICATION OF INTERNAL COMBUSTION ENGINES ON VEHICLE	E	3	0	0	3	6	OTO5142	INTERFACE CIRCUITS IN AUTOMOTIVE ELECTRONICS	E	3	0	0	3	6
	OTO5135	VIBRATION AND NOISE IN VEHICLES	E	3	0	0	3	6	OTO5144	EMBEDDED CONTROL SYSTEMS IN VEHICLES	E	3	0	0	3	6
	OTO5137	FUNDAMENTALS OF FINITE ELEMENT ANALYSIS	E	3	0	0	3	6	OTO5146	INTERNAL COMBUSTION ENGINE TESTS	E	3	0	0	3	6
	OTO5139	NUMERICAL MODELING AND SIMULATION	E	3	0	0	3	6	OTO5148	TRIBOLOGICAL SYSTEMS IN AUTOMOTIVE	E	3	0	0	3	6
	OTO5141	VEHICLE HVAC SYSTEMS AND THERMAL COMFORT	E	3	0	0	3	6	OTO5150	FLUID CONTROL SYSTEMS AND APPLICATION IN VEHICLES	E	3	0	0	3	6
	OTO5143	SENSORS AND ACTUATORS IN VEHICLES	E	3	0	0	3	6	OTO5152	VEHICLE SUSPENSION SYSTEMS DESIGN	E	3	0	0	3	6
	OTO5145	ON-BOARD DIAGNOSTIC SYSTEMS IN VEHICLES	E	3	0	0	3	6	OTO5154	COMPUTER AIDED SIMULATION IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	6
	OTO5147	MODELLING OF ENGINEERING SYSTEMS IN AUTOMOTIVE	E	3	0	0	3	6								
	OTO5149	USE OF POLYMERS IN VEHICLES	E	3	0	0	3	6								
	OTO5151	VEHICLE DISCRETE-TIME CONTROL SYSTEMS	E	3	0	0	3	6								
	OTO5153	ADVANCED STRENGTH OF MATERIALS	E	3	0	0	3	6								

			Total Credits				12	30			Total Credits				9	30	
STAGE THESIS	III. TERM / FALL							IV. TERM / SPRING									
	OTO5183	ADVANCED TOPICS IN MASTER THESIS III	C	4	0	0	0	5	OTO5184	ADVANCED TOPICS IN MASTER THESIS IV	C	4	0	0	0	5	
	OTO5193	MASTER THESIS III	C	0	1	0	0	25	OTO5194	MASTER THESIS IV	C	0	1	0	0	25	
	Total Credits							0	30	Total Credits							0
TOTAL CREDITS: 21 - TOTAL ECTS: 120																	

Not: The student have the option of choosing one selective course from another department with the endorsement of the supervisor.



ULUDAĞ UNIVERSITY
INSTITUTE OF NATURAL SCIENCES
2017-2018 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF AUTOMOTIVE ENGINEERING
DEPARTMENT / PROGRAM Automotive Engineering / Doctoral Program

COURSE STAGE	I. TERM / FALL								II. TERM / SPRING										
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS			
COURSE STAGE	OTO6191	PHD THESIS I	C	0	1	0	0	1	OTO6192	PHD THESIS II	C	0	1	0	0	1			
	FEN6001	RESEARCH METHODS	C	2	0	0	2	4	OTO6172	SEMINAR	C	0	2	0	0	4			
	OTO6101	AUTOMOTIVE DESIGN, MANUFACTURING AND PROJECT MANAGEMENT	C	3	0	0	3	5											
	OTO6181	ADVANCED TOPICS IN PHD THESIS I	E	4	0	0	0	5	OTO6182	ADVANCED TOPICS IN PHD THESIS II	E	4	0	0	0	5			
	OTO6111	VEHICLE CRASH ANALYSIS METHODS	E	3	0	0	3	5	OTO6112	CONTROL SYSTEMS IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	5			
	OTO6113	THE USAGE OF ADVANCED MATERIALS IN VEHICLES	E	3	0	0	3	5	OTO6114	VEHICLE BRAKING SYSTEMS	E	3	0	0	3	5			
	OTO6115	COMPUTATIONAL FLUID DYNAMICS METHODS OF VEHICLES	E	3	0	0	3	5	OTO6116	SPECIAL TOPICS IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	5			
	OTO6117	MECHATRONICS IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	5	OTO6118	EMISSION CONTROL AND MONITORING	E	3	0	0	3	5			
	OTO6119	ADVANCED LEVEL PROGRAMMING IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	5	OTO6120	AUTOMOTIVE COMPOSITES AND SANDWICH STRUCTURES	E	3	0	0	3	5			
	OTO6121	THEORY of ELASTICITY for ENGINEERS	E	3	0	0	3	5	OTO6122	FUELL CELLS	E	3	0	0	3	5			
	OTO6123	FUEL INJECTION SYSTEMS	E	3	0	0	3	5	OTO6124	DESIGNING OF ELECTRONIC CONTROL UNITS FOR VEHICLES	E	3	0	0	3	5			
									OTO6126	DAMAGE ANALYSIS OF VEHICLES	E	3	0	0	3	5			
									OTO6128	THEORY of FRACTURE MECHANICS and APPLICATIONS	E	3	0	0	3	5			
								OTO6130	THEORY of PLASTICITY and APPLICATIONS	E	3	0	0	3	5				
	Total Credits							14	30	Total Credits							12	30	
STAGE THESIS	III. TERM / FALL								IV. TERM / SPRING										
	YET6177	PHD PROFICIENCY EXAMINATION	C	0	0	0	0	10	OTO6184	ADVANCED TOPICS IN PHD THESIS IV	C	4	0	0	0	5			
	OTO6183	ADVANCED TOPICS IN PHD THESIS III	C	4	0	0	0	5	OTO6194	PHD THESIS IV	C	0	1	0	0	25			
	OTO6193	PHD THESIS III	C	0	1	0	0	15											
		Total Credits							0	30	Total Credits							0	30
	V. TERM / FALL								VI. TERM / SPRING										
	OTO6185	ADVANCED TOPICS IN PHD THESIS V	C	4	0	0	0	5	OTO6186	ADVANCED TOPICS IN PHD THESIS VI	C	4	0	0	0	5			
	OTO6195	PHD THESIS V	C	0	1	0	0	25	OTO6196	PHD THESIS VI	C	0	1	0	0	25			
		Total Credits							0	30	Total Credits							0	30
	VII. TERM / FALL								VIII. TERM / SPRING										
	OTO6187	ADVANCED TOPICS IN PHD THESIS VII	C	4	0	0	0	5	OTO6188	ADVANCED TOPICS IN PHD THESIS VIII	C	4	0	0	0	5			
	OTO6197	PHD THESIS VII	C	0	1	0	0	25	OTO6198	PHD THESIS VIII	C	0	1	0	0	25			
		Total Credits							0	30	Total Credits							0	30

TOTAL CREDITS: 26 - TOTAL ECTS: 240



ULUDAĞ ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
2017-2018 EĞİTİM ÖĞRETİM YILI DERS PLANLARI

ANABİLİM DALI	OTOMOTİV MÜHENDİSLİĞİ
BİLİM DALI / PROGRAMI	Otomotiv Mühendisliği / Birleştirilmiş Doktora Programı

DERS AŞAMASI	I. YARIYIL / GÜZ								II. YARIYIL / BAHAR										
	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS			
DERS AŞAMASI	OTO6191	DOKTORA TEZ DANIŞMANLIĞI I	Z	0	1	0	0	1	OTO6192	DOKTORA TEZ DANIŞMANLIĞI II	Z	0	1	0	0	1			
	OTO6181	DOKTORA UZMANLIK ALANI DERSİ I	S	4	0	0	0	5	OTO6182	DOKTORA UZMANLIK ALANI DERSİ II	S	4	0	0	0	5			
			S	3	0	0	3	6	OTO5102	OTOMOTİV MÜHENDİSLİĞİNDE NUMERİK ANALİZ VE OPTİMİZASYON YÖNTEMLERİ	Z	3	0	0	3	6			
		SEÇMELİ DERS	S	3	0	0	3	6		SEÇMELİ DERS	S	3	0	0	3	6			
		SEÇMELİ DERS	S	3	0	0	3	6		SEÇMELİ DERS	S	3	0	0	3	6			
		SEÇMELİ DERS	S	3	0	0	3	6		SEÇMELİ DERS	S	3	0	0	3	6			
		SEÇMELİ DERS																	
	Toplam Kredi							12	30	Toplam Kredi							12	30	
TEZ AŞAMASI	III. YARIYIL / GÜZ								IV. YARIYIL / BAHAR										
	OTO6193	DOKTORA TEZ DANIŞMANLIĞI III	Z	0	1	0	0	1	OTO6194	DOKTORA TEZ DANIŞMANLIĞI IV	Z	0	1	0	0	1			
	FEN6001	ARAŞTIRMA YÖNTEMLERİ	Z	2	0	0	2	4	OTO6172	SEMİNER	Z	0	2	0	0	4			
	OTO6183	DOKTORA UZMANLIK ALANI DERSİ III	Z	4	0	0	0	5	OTO6184	DOKTORA UZMANLIK ALANI DERSİ IV	Z	4	0	0	0	5			
	OTO6101	OTOMOTİV TASARIM, İMALAT VE PROJE YÖNETİMİ	Z	3	0	0	3	5		SEÇMELİ DERS	S	3	0	0	3	5			
		SEÇMELİ DERS	S	3	0	0	3	5		SEÇMELİ DERS	S	3	0	0	3	5			
		SEÇMELİ DERS	S	3	0	0	3	5		SEÇMELİ DERS	S	3	0	0	3	5			
		SEÇMELİ DERS	S	3	0	0	3	5		SEÇMELİ DERS	S	3	0	0	3	5			
		Toplam Kredi							14	30	Toplam Kredi							12	30
	V. YARIYIL / GÜZ								VI. YARIYIL / BAHAR										
YET6177	DOKTORA YETERLİK SINAVI	Z	0	0	0	0	10	OTO6186	DOKTORA UZMANLIK ALANI DERSİ VI	Z	4	0	0	0	5				
OTO6185	DOKTORA UZMANLIK ALANI DERSİ V	Z	4	0	0	0	5	OTO6196	DOKTORA TEZ DANIŞMANLIĞI VI	Z	0	1	0	0	25				
OTO6195	DOKTORA TEZ DANIŞMANLIĞI V	Z	0	1	0	0	15												
	Toplam Kredi							0	30	Toplam Kredi							0	30	
VII. YARIYIL / GÜZ								VIII. YARIYIL / BAHAR											
OTO6187	DOKTORA UZMANLIK ALANI DERSİ VII	Z	4	0	0	0	5	OTO6188	DOKTORA UZMANLIK ALANI DERSİ VIII	Z	4	0	0	0	5				
OTO6197	DOKTORA TEZ DANIŞMANLIĞI VII	Z	0	1	0	0	25	OTO6198	DOKTORA TEZ DANIŞMANLIĞI VIII	Z	0	1	0	0	25				
	Toplam Kredi							0	30	Toplam Kredi							0	30	
IX. YARIYIL / GÜZ								X. YARIYIL / BAHAR											
Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS				
OTO6189	DOKTORA UZMANLIK ALANI DERSİ IX	Z	4	0	0	0	5	OTO6190	DOKTORA UZMANLIK ALANI DERSİ X	Z	4	0	0	0	5				
OTO6199	DOKTORA TEZ DANIŞMANLIĞI IX	Z	0	1	0	0	25	OTO6290	DOKTORA TEZ DANIŞMANLIĞI X	Z	0	1	0	0	25				
	Toplam Kredi							0	30	Toplam Kredi							0	30	

TOPLAM KREDİ: 50 -TOPLAM AKTS: 300

	I.YARIYIL SEÇMELİ DERSLER								II. YARIYIL SEÇMELİ DERSLER							
	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS
DERS AŞAMASI	OTO5101	OTOMOTİV MÜHENDİSLİĞİ	S	3	0	0	3	6	OTO5112	TAŞIT DİNAMİĞİ	S	3	0	0	3	6
	OTO5111	TAŞIT TASARIMI	S	3	0	0	3	6	OTO5114	ALTERNATİF TAHRİK SİSTEMLERİ	S	3	0	0	3	6
	OTO5115	OTOMOTİV MALZEMELERİ	S	3	0	0	3	6	OTO5120	ÜRETİM VE MONTAJ TEKNOLOJİLERİ	S	3	0	0	3	6
	OTO5117	MOTORLU ARAÇLAR VE GELİŞİMİ	S	3	0	0	3	6	OTO5124	MOTOR TASARIM VE KONTROL TEMELLERİ	S	3	0	0	3	6
	OTO5119	TAŞIT TRANSMİSYON SİSTEMLERİ TASARIMI	S	3	0	0	3	6	OTO5128	OTOMOTİV MÜHENDİSLİĞİNDE SONLU ELEMANLAR UYGULAMALARI	S	3	0	0	3	6
	OTO5121	GÖVDE TASARIM VE FORM GELİŞTİRME	S	3	0	0	3	6	OTO5130	TAŞIT İÇ TASARIMI	S	3	0	0	3	6
	OTO5123	TAŞITLARDA ELEKTRİK VE ELEKTRONİK SİSTEMLER	S	3	0	0	3	6	OTO5134	AERODİNAMİK MODELLEME ESASLARI	S	3	0	0	3	6
	OTO5127	İÇTEN YANMALI MOTORLARIN HESABI VE GELİŞTİRİLMESİ	S	3	0	0	3	6	OTO5136	İÇTEN YANMALI MOTORLARDA ÖZEL KONULAR	S	3	0	0	3	6
	OTO5129	MOTORLARDA KARIŞIM OLUŞUM TEKNİKLERİ	S	3	0	0	3	6	OTO5138	TAŞIT KAYNAKLI KIRLETİCİLER VE KONTROLÜ	S	3	0	0	3	6
	OTO5131	İÇTEN YANMALI MOTORLAR	S	3	0	0	3	6	OTO5140	TAŞITLARDA İLERİ ÜRETİM TEKNOLOJİLERİ	S	3	0	0	3	6
	OTO5133	İÇTEN YANMALI MOTORUN TAŞITA UYGULANMASI	S	3	0	0	3	6	OTO5142	OTOMOTİV ELEKTRONİĞİNDE ARA YÜZ DEVRELERİ	S	3	0	0	3	6
	OTO5135	TAŞITLARDA TİTREŞİM VE GÜRÜLTÜ	S	3	0	0	3	6	OTO5144	TAŞITLARDA GÖMÜLÜ KONTROL SİSTEMLERİ	S	3	0	0	3	6
	OTO5137	SONLU ELEMANLAR ANALİZİNİN ESASLARI	S	3	0	0	3	6	OTO5146	İÇTEN YANMALI MOTOR TESTLERİ	S	3	0	0	3	6
	OTO5139	SAYISAL MODELLEME VE BENZETİM	S	3	0	0	3	6	OTO5148	OTOMOTİVDE TRİBOLOJİK SİSTEMLER	S	3	0	0	3	6
	OTO5141	TAŞIT İKLİMLENDİRME SİSTEMLERİ VE ISIL KONFOR	S	3	0	0	3	6	OTO5150	OTOMOTİVDE AKIŞKAN DENETİM SİSTEMLERİ VE UYGULAMALARI	S	3	0	0	3	6
	OTO5143	TAŞITLARDA SENSÖR VE EYLEYİCİLER	S	3	0	0	3	6	OTO5152	TAŞIT SÜSPANSİYON SİSTEMLERİ	S	3	0	0	3	6
	OTO5145	TAŞITLARDA BÜTÜNLEŞİK TANI KOYMA SİSTEMLERİ	S	3	0	0	3	6	OTO5154	OTOMOTİV MÜHENDİSLİĞİNDE BİLGİSAYAR DESTEKLİ SİMÜLASYON	S	3	0	0	3	6
	OTO5147	OTOMOTİVDE MÜHENDİSLİK SİSTEMLERİNİN MODELLENMESİ	S	3	0	0	3	6								
OTO5149	TAŞITLARDA POLİMERLERİN KULLANIMI	S	3	0	0	3	6									
OTO5151	TAŞITLARDA AYRIK ZAMANLI DENETİM SİSTEMLERİ	S	3	0	0	3	6									
OTO5153	İLERİ MUKAVEMET	S	3	0	0	3	6									
OTO5155	YAKIT ENJEKSİYON MEKANİZMALARI	S	3	0	0	3	6									
DERS AŞAMASI	III. YARIYIL SEÇMELİ DERSLER								IV. YARIYIL SEÇMELİ DERSLER							
	OTO6111	TAŞITLARDA ÇARPMA ANALİZİ YÖNTEMLERİ	S	3	0	0	3	5	OTO6112	OTOMOTİV MÜHENDİSLİĞİNDE KONTROL SİSTEMLERİ	S	3	0	0	3	5
	OTO6113	TAŞITLARDA İLERİ MALZEMELERİN KULLANIMI	S	3	0	0	3	5	OTO6114	TAŞIT FREN SİSTEMLERİ	S	3	0	0	3	5
	OTO6115	TAŞITLARDA HESAPLAMALI AKIŞKANLAR DİNAMİĞİ YÖNTEMLERİ	S	3	0	0	3	5	OTO6116	OTOMOTİV MÜHENDİSLİĞİNDE ÖZEL KONULAR	S	3	0	0	3	5
	OTO6117	OTOMOTİV MÜHENDİSLİĞİNDE MEKATRONİK	S	3	0	0	3	5	OTO6118	EMİSYON KONTROLÜ VE DENETİMİ	S	3	0	0	3	5
	OTO6119	OTOMOTİV MÜHENDİSLİĞİNDE İLERİ DÜZEY PROGRAMLAMA	S	3	0	0	3	5	OTO6120	TAŞITLARDA KOMPOZİT VE SANDVİÇ YAPILAR	S	3	0	0	3	5
	OTO6121	MÜHENDİSLER İÇİN ELASTİSİTE TEORİSİ	S	3	0	0	3	5	OTO6122	YAKIT HÜCRELERİ	S	3	0	0	3	5
	OTO6123	YAKIT ENJEKSİYON MEKANİZMALARI	S	3	0	0	3	5	OTO6124	TAŞITLARDA ELEKTRONİK KONTROL ÜNİTESİ TASARIMI	S	3	0	0	3	5
									OTO6126	TAŞITLARDA HASAR ANALİZİ	S	3	0	0	3	5
									OTO6128	MÜHENDİSLİK KIRILMA MEKANİĞİ TEORİSİ VE UYGULAMALARI	S	3	0	0	3	5

	I. TERM / ELECTIVE COURSES								II. TERM / ELECTIVE COURSES							
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS
COURSE STAGE	OTO5101	AUTOMOTIVE ENGINEERING	E	3	0	0	3	6	OTO5112	VEHICLE DYNAMICS	E	3	0	0	3	6
	OTO5111	VEHICLE DESIGN	E	3	0	0	3	6	OTO5114	ALTERNATIVE PROOULSION SYSTEMS	E	3	0	0	3	6
	OTO5115	AUTOMOTIVE MATERIALS	E	3	0	0	3	6	OTO5120	PRODUCTION AND ASSEMBLY TECHNOLOGIES	E	3	0	0	3	6
	OTO5117	MOTOR VEHICLES AND THEIR EVOLUTION	E	3	0	0	3	6	OTO5124	ENGINE DESIGN AND CONTROL FUNDAMENTALS	E	3	0	0	3	6
	OTO5119	AUTOMOTIVE TRANSMISSION DESIGN	E	3	0	0	3	6	OTO5128	FINITE ELEMENT APPLICATIONS IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	6
	OTO5121	DEVELOPING FORMS AND DESIGNING THE BODY WORK	E	3	0	0	3	6	OTO5130	VEHICLE INTERIOR DESIGN	E	3	0	0	3	6
	OTO5123	ELECTRIC AND ELECTRONIC SYSTEMS FOR VEHICLES	E	3	0	0	3	6	OTO5134	AERODYNAMIC MODELLING FUNDAMENTALS	E	3	0	0	3	6
	OTO5127	INTERNAL COMBUSTION ENGINE DESIGN	E	3	0	0	3	6	OTO5136	ADVANCED TOPICS IN INTERNAL COMBUSTION ENGINES	E	3	0	0	3	6
	OTO5129	MIXTURE FORMATION IN INTERNAL COMBUSTION ENGINES	E	3	0	0	3	6	OTO5138	VEHICLE OUT EMISSIONS AND THEIR CONTROL	E	3	0	0	3	6
	OTO5131	INTERNAL COMBUSTION ENGINES	E	3	0	0	3	6	OTO5140	ADVANCED MANUFACTURING TECHNIQUES FOR VEHICLES	E	3	0	0	3	6
	OTO5133	APPLICATION OF INTERNAL COMBUSTION ENGINES ON VEHICLE	E	3	0	0	3	6	OTO5142	INTERFACE CIRCUITS IN AUTOMOTIVE ELECTRONICS	S	3	0	0	3	6
	OTO5135	VIBRATION AND NOISE IN VEHICLES	E	3	0	0	3	6	OTO5144	EMBEDDED CONTROL SYSTEMS IN VEHICLES	E	3	0	0	3	6
	OTO5137	FUNDAMENTALS OF FINITE ELEMENT ANALYSIS	E	3	0	0	3	6	OTO5146	INTERNAL COMBUSTION ENGINE TESTS	E	3	0	0	3	6
	OTO5139	NUMERICAL MODELING AND SIMULATION	E	3	0	0	3	6	OTO5148	TRIBOLOGICAL SYSTEMS IN AUTOMOTIVE	E	3	0	0	3	6
	OTO5141	VEHICLE HVAC SYSTEMS AND THERMAL COMFORT	E	3	0	0	3	6	OTO5150	FLUID CONTROL SYSTEMS AND APPLICATION IN VEHICLES	E	3	0	0	3	6
	OTO5143	SENSORS AND ACTUATORS IN VEHICLES	E	3	0	0	3	6	OTO5152	VEHICLE SUSPENSION SYSTEMS DESIGN	E	3	0	0	3	6
	OTO5145	ON-BOARD DIAGNOSTIC SYSTEMS IN VEHICLES	E	3	0	0	3	6	OTO5154	COMPUTER AIDED SIMULATION IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	6
	OTO5147	MODELLING OF ENGINEERING SYSTEMS IN AUTOMOTIVE	E	3	0	0	3	6								
OTO5149	USE OF POLYMERS IN VEHICLES	E	3	0	0	3	6									
OTO5151	VEHICLE DISCRETE-TIME CONTROL SYSTEMS	E	3	0	0	3	6									
OTO5153	ADVANCED STRENGTH OF MATERIALS	E	3	0	0	3	6									
OTO5155	FUEL INJECTION SYSTEMS	E	3	0	0	3	6									
COURSE STAGE	III. TERM / ELECTIVE COURSES								IV. TERM / ELECTIVE COURSES							
	OTO6111	VEHICLE CRASH ANALYSIS METHODS	E	3	0	0	3	5	OTO6112	CONTROL SYSTEMS IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	5
	OTO6113	THE USAGE OF ADVANCED MATERIALS IN VEHICLES	E	3	0	0	3	5	OTO6114	VEHICLE BRAKING SYSTEMS	E	3	0	0	3	5
	OTO6115	COMPUTATIONAL FLUID DYNAMICS METHODS OF VEHICLES	E	3	0	0	3	5	OTO6116	SPECIAL TOPICS IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	5
	OTO6117	MECHATRONICS IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	5	OTO6118	EMISSION CONTROL AND MONITORING	E	3	0	0	3	5
	OTO6119	ADVANCED LEVEL PROGRAMMING IN AUTOMOTIVE ENGINEERING	E	3	0	0	3	5	OTO6120	AUTOMOTIVE COMPOSITES AND SANDWICH STRUCTURES	E	3	0	0	3	5
	OTO6121	THEORY of ELASTICITY for ENGINEERS	E	3	0	0	3	5	OTO6122	FUELL CELLS	E	3	0	0	3	6
	OTO6123	FUEL INJECTION SYSTEMS	E	3	0	0	3	5	OTO6124	DESIGNING OF ELECTRONIC CONTROL UNITS FOR VEHICLES	S	3	0	0	3	5
									OTO6126	DAMAGE ANALYSIS OF VEHICLES	S	3	0	0	3	5
								OTO6128	THEORY of FRACTURE MECHANICS and APPLICATIONS	E	3	0	0	3	5	

