



ULUDAĞ ÜNİVERSİTESİ
FEN BİLİMLERİ ENSTİTÜSÜ
2015-2016 EĞİTİM ÖĞRETİM YILI DERS PLANLARI

ANABİLİM DALI

ELEKTRONİK MÜHENDİSLİĞİ

BİLİM DALI / PROGRAMI

/YÜKSEK LİSANS PROGRAMI

	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	ELN5181	YÜKSEK LİSANS UZMANLIK ALAN DERSİ I	Z	4	0	0	0	5	ELN5182	YÜKSEK LİSANS UZMANLIK ALAN DERSİ II	Z	4	0	0	0	5
	ELN5191	TEZ DANIŞMANLIĞI I	Z	0	1	0	0,5	1	ELN5192	TEZ DANIŞMANLIĞI II	Z	0	1	0	0,5	1
	ELN5501	İLERİ MÜHENDİSLİK MATEMATİĞİ I	Z	3	0	0	3	6	ELN5502	İLERİ MÜHENDİSLİK MATEMATİĞİ II	Z	3	0	0	3	7
	ELN5503	SAYISAL HESAPLAMA VE PROGRAMLAMA	S	3	0	0	3	6	ELN5172	SEMİNER (DERSTE)	Z	0	2	0	0	5
	ELN5101	ANALOG FİLTRELER	S	3	0	0	3	6	ELN5504	DÖNÜŞÜMLER VE MÜHENDİSLİK UYGULAMALARI	S	3	0	0	3	6
	ELN5201	MİKRODALGA TEKNİĞİ	S	3	0	0	3	6	ELN5102	GELİŞMİŞ MİKROİŞLEMCİLER	S	3	0	0	3	6
	ELN5203	RF DEVRE VE SİSTEMLERİN ANALİZ TASARIMI	S	3	0	0	3	6	ELN5104	SAYISAL FİLTRELER	S	3	0	0	3	6
	ELN5205	ELEKTROMANYETİKTE YÜKSEK FREKANS METODLARI I	S	3	0	0	3	6	ELN5202	MİKRODALGA DEVRELERİ	S	3	0	0	3	6
	ELN5207	ELEKTROMANYETİZMA KURAMININ ESASLARI	S	3	0	0	3	6	ELN5204	MİKRODALGA SİSTEM MÜHENDİSLİĞİ	S	3	0	0	3	6
	ELN5209	İLERİ ANTEN TEORİSİ	S	3	0	0	3	6	ELN5206	RADAR SİSTEMLERİ	S	3	0	0	3	6
	ELN5211	SINIR DEĞER PROBLEMLERİ I	S	3	0	0	3	6	ELN5208	ELEKTROMANYETİKTE YÜKSEK FREKANS METODLARI II	S	3	0	0	3	6
	ELN5213	BİYOELEKTROMANYETİZMA	S	3	0	0	3	6	ELN5210	ÖZEL FONKSİYONLAR	S	3	0	0	3	6
	ELN5301	OPTOELEKTRONİK DEVRELER	S	3	0	0	3	6	ELN5212	SINIR DEĞER PROBLEMLERİ II	S	3	0	0	3	6
	ELN5401	İLERİ SAYISAL SİNYAL İŞLEME	S	3	0	0	3	6	ELN5214	OPTİKSEL ELEKTROMANYETİK KIRINIM	S	3	0	0	3	6
	ELN5403	MOBİL HABERLEŞME SİSTEMLERİ	S	3	0	0	3	6	ELN5302	OPTOELEKTRONİK DÖNÜŞTÜRÜCÜLER	S	3	0	0	3	6
	ELN5405	SAYISAL HABERLEŞME SİSTEMLERİ	S	3	0	0	3	6	ELN5402	RASGELE İŞARET ANALİZİ	S	3	0	0	3	6
	ELN5407	OPTİK FİBERLİ ALGILAYICILAR	S	3	0	0	3	6	ELN5404	ENFORMASYON KURAMI	S	3	0	0	3	6
	ELN5409	OPTİK FİBERLİ HABERLEŞME SİSTEMLERİ	S	3	0	0	3	6	ELN5406	RADYO HABERLEŞME SİSTEMLERİ	S	3	0	0	3	6
	ELN5411	YEREL VE METROPOLİTAN ALAN AĞLARI	S	3	0	0	3	6	ELN5408	SAYISAL TELEVİZYON TEKNOLOJİSİ VE STANDARTLARI	S	3	0	0	3	6
	ELN5413	HABERLEŞME AĞLARI TASARIM VE YÖNETİMİ	S	3	0	0	3	6	ELN5410	YÜKSEK HIZLI OPTİK FİBERLİ HABERLEŞME SİSTEMLERİ	S	3	0	0	3	6
ELN5415	NESNE TANIMA	S	3	0	0	3	6	ELN5412	DURUM-UZAYI VE DOĞRUSAL SİSTEM TEORİSİ	S	3	0	0	3	6	
ELN5417	TIBBİ GÖRÜNTÜLEME VE ANALİZ TEKNİKLERİ	S	3	0	0	3	6	ELN5414	FOTONİK VE OPTİK ANAHTARLAMA YÖNTEMLERİ	S	3	0	0	3	6	
								ELN5416	UYARLAMALI SÜZGEÇ KURAMI	S	3	0	0	3	6	

								ELN5418	YAPAY SİNİR AĞLARI İLE NESNE TANIMA	S	3	0	0	3	6								
								ELN5420	ÇOĞUL ORTAM GÜVENLİĞİ	S	3	0	0	3	6								
								ELN5422	İLERİ SAYISAL İMGE İŞLEME	S	3	0	0	3	6								
								ELN5424	DİNAMİK SİSTEMLERİN ANALİZİ	S	3	0	0	3	6								
								Toplam Kredi			12			30									
											Toplam Kredi			12	30								
								III. YARIYIL / GÜZ								IV. YARIYIL / BAHAR							
TEZ AŞAMASI	ELN5173	SEMİNER (TEZDE)	Z	0	2	0	0	5	ELN5184	YÜKSEK LİSANS UZMANLIK ALAN DERSİ IV	Z	4	0	0	0	5							
	ELN5183	YÜKSEK LİSANS UZMANLIK ALAN DERSİ III	Z	4	0	0	0	5	ELN5194	YÜKSEK LİSANS TEZ ÇALIŞMASI II	Z	0	0	0	0	25							
	ELN5193	YÜKSEK LİSANS TEZ ÇALIŞMASI I	Z	0	0	0	0	20															
								Toplam Kredi			0			30									
											Toplam Kredi			0	30								
TOPLAM KREDİ: 24 - TOPLAM AKTS: 120																							

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



ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
2015-2016 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF ELECTRONIC ENGINEERING
DEPARTMENT / PROGRAM / 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	ELN5181	SPECIAL TOPICS IN MSC THESIS I	C	4	0	0	0	5	ELN5182	SPECIAL TOPICS IN MSC THESIS II	C	4	0	0	0	5
	ELN5191	MSC THESIS CONSULTING I	C	0	1	0	0	1	ELN5192	MSC THESIS CONSULTING II	C	0	1	0	0	1
	ELN5501	ADVANCED ENGINEERING MATHEMATICS I	C	3	0	0	3	6	ELN5502	ADVANCED ENGINEERING MATHEMATICS II	C	3	0	0	3	7
	ELN5503	NUMERICAL COMPUTING AND PROGRAMMING	O	3	0	0	3	6	ELN5172	SEMINAR (CLASS)	C	0	2	0	0	5
	ELN5101	ANALOG FILTERS	O	3	0	0	3	6	ELN5504	TRANSFORMS AND ENGINEERING APPLICATIONS	O	3	0	0	3	6
	ELN5201	MICROWAVE TECHNIQUES	O	3	0	0	3	6	ELN5102	ADVANCED MICROPROCESSORS	O	3	0	0	3	6
	ELN5203	ANALYSIS AND DESIGN OF RF CIRCUITS AND SYSTEMS	O	3	0	0	3	6	ELN5104	DIGITAL FILTERS	O	3	0	0	3	6
	ELN5205	HIGH FREQUENCY METHODS IN ELECTROMAGNETIC I	O	3	0	0	3	6	ELN5202	MICROWAVE CIRCUITS	O	3	0	0	3	6
	ELN5207	PRINCIPLES OF ELECTROMAGNETIC THEORY	O	3	0	0	3	6	ELN5204	MICROWAVE SYSTEMS ENGINEERING	O	3	0	0	3	6
	ELN5209	ADVANCED ANTENNA THEORY	O	3	0	0	3	6	ELN5206	RADAR SYSTEMS	O	3	0	0	3	6
	ELN5211	BOUNDARY VALUE PROBLEMS I	O	3	0	0	3	6	ELN5208	HIGH FREQUENCY METHODS IN ELECTROMAGNETIC II	O	3	0	0	3	6
	ELN5213	BIOELECTROMAGNETISM	O	3	0	0	3	6	ELN5210	SPECIAL FUNCTIONS	O	3	0	0	3	6
	ELN5301	OPTOELECTRONIC CIRCUITS	O	3	0	0	3	6	ELN5212	BOUNDARY VALUE PROBLEMS II	O	3	0	0	3	6
	ELN5401	ADVANCED SIGNAL PROCESSING	O	3	0	0	3	6	ELN5214	QUASI-OPTIC ELECTROMAGNETIC DIFFRACTION	O	3	0	0	3	6
	ELN5403	MOBILE COMMUNICATION SYSTEMS	O	3	0	0	3	6	ELN5302	OPTOELECTRONIC CONVERTERS	O	3	0	0	3	6
	ELN5405	DIGITAL COMMUNICATION SYSTEMS	O	3	0	0	3	6	ELN5402	RANDOM SIGNAL ANALYSIS	O	3	0	0	3	6
	ELN5407	FIBER OPTIC SENSORS	O	3	0	0	3	6	ELN5404	INFORMATION THEORY	O	3	0	0	3	6
	ELN5409	OPTICAL FIBER COMMUNICATION SYSTEMS	O	3	0	0	3	6	ELN5406	RADIO COMMUNICATION SYSTEMS	O	3	0	0	3	6
	ELN5411	LOCAL AND METROPOLITAN AREA NETWORK	O	3	0	0	3	6	ELN5408	DIGITAL TELEVISION TECHNOLOGY AND STANDARDS	O	3	0	0	3	6
	ELN5413	DESIGN AND MANAGEMENT OF COMMUNICATION NETWORKS	O	3	0	0	3	6	ELN5410	HIGH SPEED OPTICAL FIBER COMMUNICATION SYSTEMS	O	3	0	0	3	6
ELN5415	PATTERN RECOGNITION	O	3	0	0	3	6	ELN5412	STADE-SPACEAND LINEAR SYSTEM THEORY	O	3	0	0	3	6	

	ELN5417	MEDICAL IMAGING AND ANALYSIS TECHNIQUES								ELN5414	PHOTONIC AND OPTICAL SWITCHING METHODS	O	3	0	0	3	6			
										ELN5416	ADAPTIVE FILTER THEORY	O	3	0	0	3	6			
										ELN5418	PATTERN RECOGNITION WITH NEURAL NETWORKS	O	3	0	0	3	6			
										ELN5420	MULTIMEDIA SECURITY	O	3	0	0	3	6			
										ELN5422	ADVANCED DIGITAL IMAGE PROCESSING	O	3	0	0	3	6			
										ELN5424	ANALYSIS OF DYNAMICAL SYSTEMS	O	3	0	0	3	6			
	Total Credits								12	30	Total Credits								9	30
STAGE THESIS	III. TERM / FALL									IV. TERM / SPRING										
	ELN5173	SEMINAR (THESIS)	Z	0	2	0	0	5	ELN5184	SPECIAL TOPICS IN MSC THESIS IV	Z	4	0	0	0	5				
	ELN5183	SPECIAL TOPICS IN MSC THESIS III	Z	4	0	0	0	5	ELN5194	MSC THESIS II	Z	0	0	0	0	25				
	ELN5193	MSC THESIS I	Z	0	0	0	0	20												
	Total Credits								0	30	Total Credits								0	30
TOTAL CREDITS: 24 - TOTAL ECTS: 120																				

Not: The student is expected to take a total of credited selective courses every academic term.
The student have the option of choosing one selective course from another department with the endorsement of the supervisor.