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

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

	ELN5415	PATTERN RECOGNITION	E	3	0	0	3	6	ELN5414	PHOTONIC AND OPTICAL SWITCHING METHODS	E	3	0	0	3	6
	ELN5417	MEDICAL IMAGING AND ANALYSIS TECHNIGUES							ELN5416	ADAPTIVE FILTER THEORY	E	3	0	0	3	6
									ELN5418	PATTERN RECOGNITION WITH NEURAL NETWORKS	E	3	0	0	3	6
									ELN5420	MULTIMEDIA SECURITY	E	3	0	0	3	6
									ELN5422	ADVANCED DIGITAL IMAGE PROCESSING	E	3	0	0	3	6
									ELN5424	ANALYSIS OF DYNAMICAL SYSTEMS	E	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	MA THESIS IV	Z	0	1	0	0	25
	ELN5193	MA THESIS III	Z	0	1	0	0	20								
		Total Credits					**0**	**30**		**Total Credits**					**0**	**30**
TOTAL CREDITS: 21- TOTAL ECTS: 120																

Not: Thestudent is expectedtotake a total of …….credited……. selectivecourseseveryacademic term.
Thestudent have the option of choosing one selective course from another department with the endorsement of the supervisor.

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

DEPARTMENT OF	ELECTRONICS ENGINEERING
DEPARTMENT / PROGRAM	/ 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**
ELN6191	PHD THESIS I	C	0	1	0	0	1	ELN6192	PHD THESIS II	C	0	1	0	0	1
ELN6501	ADVANCED ENGINEERING MATHEMATICS III	C	3	0	0	3	5	ELN6172	SEMINAR (CLASS)	C	0	2	0	0	4
FEN6001	RESEARCH METHODS	C	2	0	0	2	4								
ELN6181	ADVANCED TOPICS IN PHD THESIS I	E	4	0	0	0	5	ELN6182	ADVANCED TOPICS IN PHD THESIS II	E	4	0	0	0	5
ELN6101	WAVELET TRANSFORMS AND THEIR APPLICATIONS	E	3	0	0	3	5	ELN6102	FUZZY LOGIC	E	3	0	0	3	5
ELN6201	ADVANCED MICROWAVE TECHNIC	E	3	0	0	3	5	ELN6202	ADVANCED RADAR TECHNICS	E	3	0	0	3	5
ELN6203	APPLICATIONS OF WIENEER-HOPF TECNIGUE IN DIFFRACTIONN THEORY	E	3	0	0	3	5	ELN6204	INTEGRAL EGUATION METHODS FOR ELECTROMAGNETICS	E	3	0	0	3	5
ELN6205	RADAR CROSS SECTION PREDICTION AND REDUCTION TECHNIQUES	E	3	0	0	3	5	ELN6206	RADIOWAVE PROPAGATION OVER GROUND	E	3	0	0	3	5
ELN6207	ANALYTICAL METHODS FOR ELEKTROMAGNETICS	E	3	0	0	3	5	ELN6208	NUMERICAL METHODS FOR ELEKTROMAGNETICS	E	3	0	0	3	5
ELN6209	ADVANCED ELECTROMAGNETIC SCATTERING	E	3	0	0	3	5	ELN6302	LASER BASED SYSTEMS	E	3	0	0	3	5
ELN6301	OPTPELEKCTRONIC SYSTEMS	E	3	0	0	3	5	ELN6402	SPECTRUM ESTIMATION	E	3	0	0	3	5
ELN6401	ESTIMATION THEORY	E	3	0	0	3	5	ELN6404	DIGITAL MODULATION AND CODING	E	3	0	0	3	5
ELN6403	COMMUNICATION THEORY	E	3	0	0	3	5	ELN6406	APPLICATIONS OF NONLINEAR FIBER OPTICS	E	3	0	0	3	5
ELN6405	NONLINEAR EFFECTS IN OPTICAL FIBERS	E	3	0	0	3	5	ELN6408	TELE-TRAFFIC ENGINEERING	E	3	0	0	3	5
ELN6407	ANALYSIS AND SYNTHESIS OF SPEECH SIGNALS	E	3	0	0	3	5	ELN6410	DETECTION THEORY	E	3	0	0	3	5
ELN6409	ADVANCED SWITCHING SYSTEMS	E	3	0	0	3	5	ELN6412	OPTICAL SWITCHING NETWORKS	E	3	0	0	3	5
ELN6413	CHAOS THEORY AND NONLINEAR SIGNAL PROCESSING	E	3	0	0	3	5	ELN6414	ADVANCED COMPUTER VISION METHODS	E	3	0	0	3	5
ELN6415	STATICAL PATTERN ANALYSIS AND CLASSIFICATION	E	3	0	0	3	5								

	Toplam Kredi					**12**	**30**		**Toplam Kredi**						**12**	**30**
STAGE THESIS	**III. TERM / FALL**								**IV. TERM / SPRING**							
	ELN6183	ADVANCED TOPICS IN PHD THESIS III	C	4	0	0	0	5	ELN6174	SEMINAR (THESIS)	C	0	2	0	0	5
	ELN6193	PHD THESIS III	C	0	1	0	0	20	ELN6184	ADVANCED TOPICS IN PHD THESIS IV	C	4	0	0	0	5
	YET6177	PHD PROFICIENCY	C	0	0	0	0	5	ELN6194	PHD THESIS IV	C	0	1	0	0	20
	Toplam Kredi					**0**	**30**		**Toplam Kredi**						**0**	**30**
	V. TERM / FALL								**VI. TERM / SPRING**							
	ENS6121	DEVELOPMENT AND LEARNING	C	3	0	0	0	5	ENS6122	PLANING AND EVALUATION IN EDUCATION	C	3	2	0	0	5
	ELN6185	ADVANCED TOPICS IN PHD THESIS V	C	4	0	0	0	5	ELN6186	ADVANCED TOPICS IN PHD THESIS VI	C	4	0	0	0	5
	ELN6195	PHD THESIS V	C	0	1	0	0	20	ELN6196	PHD THESIS VI	C	0	1	0	0	20
	Toplam Kredi					**0**	**30**		**Toplam Kredi**						**0**	**30**
	VII. TERM / FALL								**VIII. TERM / SPRING**							
	ELN6187	ADVANCED TOPICS IN PHD THESIS VII	C	4	0	0	0	5	ELN6188	ADVANCED TOPICS IN PHD THESIS VIII	C	4	0	0	0	5
	ELN6197	PHD THESIS VII	C	0	1	0	0	25	ELN6198	PHD THESIS VIII	C	0	1	0	0	25
	Toplam Kredi					**0**	**30**		**Toplam Kredi**						**0**	**30**
TOTAL CREDITS: - TOTAL ECTS:																

Not: Thestudent is expectedtotake a total of …….credited…….selectivecourseseveryacademic term.
Thestudent have the option of choosing one selective course from another department with the endorsement of the supervisor. *Success in Ph.D. qualifying exam is a prerequisite.