ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
2017-2018 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF	ELECTRONIC ENGINEERING
DEPARTMENT / PROGRAM	ELECTRONIC 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	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
									ELN5504	ADVANCED TOPICS IN ENGINEERING MATHEMATICS I	C	3	0	0	3	6
									ELN5000	RESEARCH TECHNIQUES and PUBLICATION ETHICS in ELECTRONIC ENGINEERING	C	2	0	0	2	2
	ELN5503	NUMERICAL COMPUTING AND PROGRAMMING	O	3	0	0	3	6	ELN5172	SEMINAR	C	0	2	0	0	4
	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
	ELN5303	ADVANCED MICROELECTRONIC DEVICES	O	3	0	0	3	6	ELN5214	QUASI-OPTIC ELECTROMAGNETIC DIFFRACTION	O	3	0	0	3	6
	ELN5305	SEMICONDUCTOR DEVICE MANUFACTURING TECHNOLOGIES	O	3	0	0	3	6	ELN5302	OPTOELECTRONIC CONVERTERS	O	3	0	0	3	6
	ELN5401	ADVANCED SIGNAL PROCESSING	O	3	0	0	3	6	ELN5304	INTEGRATED OPTICS	O	3	0	0	3	6
	ELN5403	MOBILE COMMUNICATION SYSTEMS	O	3	0	0	3	6	ELN5306	PHOTONIC DEVİCES	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	O	3	0	0	3	6	ELN5406	RADIO COMMUNICATION SYSTEMS	O	3	0	0	3	6

	SYSTEMS														
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-SPACE AND LINEAR SYSTEM THEORY	O	3	0	0	3	6
ELN5417	MEDICAL IMAGING AND ANALYSIS TECHNIGUES	O	3	0	0	3	6	ELN5414	PHOTONIC AND OPTICAL SWITCHING METHODS	O	3	0	0	3	6
ELN5423	ANALYSIS OF DYNAMICAL SYSTEMS	O	3	0	0	3	6	ELN5416	ADAPTIVE FILTER THEORY	O	3	0	0	3	6
ELN5601	ELECTRIC POWER QUALITY	O	3	0	0	3	6	ELN5418	PATTERN RECOGNITION WITH NEURAL NETWORKS	O	3	0	0	3	6
ELN5603	ELECTRIC POWER SYSTEM ANALYSIS	O	3	0	0	3	6	ELN5420	MULTIMEDIA SECURITY	O	3	0	0	3	6
ELN5701	INFORMATİON RETRIEVAL SYSTEMS	O	3	0	0	3	6	ELN5422	ADVANCED DIGITAL IMAGE PROCESSING	O	3	0	0	3	6
ELN5703	CRYPTOGRAPHY AND NETWORK SECURITY	O	3	0	0	3	6	ELN5602	ADVANCED COMPENSATION TECHNIQUES IN POWER SYSTEMS	O	3	0	0	3	6
								ELN5604	COMPUTER AIDED POWER SYSTEM ANALYSIS	O	3	0	0	3	6
								ELN5702	MACHİNE LEARNİNG	O	3	0	0	3	6
								ELN5704	COMPUTER SECURİTY	O	3	0	0	3	6
					Total Credits	**12**	**30**						**Total Credits**	**11**	**30**

	III. TERM / FALL							IV. TERM / SPRING						
STAGE THESIS ELN5183	SPECIAL TOPICS IN MSC THESIS III	Z	4	0	0	0	5	ELN5184	SPECIAL TOPICS IN MSC THESIS IV	Z	4	0	0	0	5
ELN5193	MSC THESIS CONSULTING III	Z	0	1	0	0	25	ELN5194	MSC THESIS CONSULTING IV	Z	0	1	0	0	25
				Total Credits	**0**	**30**					**Total Credits**	**0**	**30**

TOTAL CREDITS: 23 - TOTAL ECTS: 120

Not: The student is expected to take a total of 24 ECTS. credited 4 selective courses in fall term and a total of 12 ECTS. credited 2 selective courses in every academic term.
The student 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
2017-2018 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF	ELECTRONICS ENGINEERING
DEPARTMENT / PROGRAM	ELECTRONICS ENGINEERING / DOCTORAL 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	ELN6191	DISSERTATION SUPERVISION I	C	0	1	0	0	1	ELN6192	DISSERTATION SUPERVISION II	C	0	1	0	0	1
	ELN6181	ADVANCED TOPICS IN PHD THESIS I	C	4	0	0	0	5	ELN6182	ADVANCED TOPICS IN PHD THESIS II	C	4	0	0	0	5
	ELN6503	ADVANCED TOPICS IN ENGINEERING MATHEMATICS II	C	3	0	0	3	6	ELN6172	SEMINAR	C	0	2	0	0	4
									FEN6000	RESEARCH TECHNIQUES and PUBLICATION ETHICS	C	2	0	0	2	2
	ELN6101	WAVELET TRANSFORMS AND THEIR APPLICATIONS	O	3	0	0	3	6	ELN6102	FUZZY LOGIC	O	3	0	0	3	6
	ELN6201	ADVANCED MICROWAVE TECHNIC	O	3	0	0	3	6	ELN6104	EVOLUTIONARY ALGORITHMS	O	3	0	0	3	6
	ELN6203	APPLICATIONS OF WIENEER-HOPF TECNIGUE IN DIFFRACTIONN THEORY	O	3	0	0	3	6	ELN6202	ADVANCED RADAR TECHNICS	O	3	0	0	3	6
	ELN6205	RADAR CROSS SECTION PREDICTION AND REDUCTION TECHNIQUES	O	3	0	0	3	6	ELN6204	INTEGRAL EGUATION METHODS FOR ELECTROMAGNETICS	O	3	0	0	3	6
	ELN6207	ANALYTICAL METHODS FOR ELEKTROMAGNETICS	O	3	0	0	3	6	ELN6206	RADIOWAVE PROPAGATION OVER GROUND	O	3	0	0	3	6
	ELN6209	ADVANCED ELECTROMAGNETIC SCATTERING	O	3	0	0	3	6	ELN6208	NUMERICAL METHODS FOR ELEKTROMAGNETICS	O	3	0	0	3	6
	ELN6301	OPTPELEKCTRONIC SYSTEMS	O	3	0	0	3	6	ELN6302	LASER BASED SYSTEMS	O	3	0	0	3	6
	ELN6401	ESTIMATION THEORY	O	3	0	0	3	6	ELN6402	SPECTRUM ESTIMATION	O	3	0	0	3	6
	ELN6403	COMMUNICATION THEORY	O	3	0	0	3	6	ELN6404	DIGITAL MODULATION AND CODING	O	3	0	0	3	6
	ELN6405	NONLINEAR EFFECTS IN OPTICAL FIBERS	O	3	0	0	3	6	ELN6406	APPLICATIONS OF NONLINEAR FIBER OPTICS	O	3	0	0	3	6
	ELN6407	ANALYSIS AND SYNTHESIS OF SPEECH SIGNALS	O	3	0	0	3	6	ELN6408	TELE-TRAFFIC ENGINEERING	O	3	0	0	3	6
	ELN6409	ADVANCED SWITCHING SYSTEMS	O	3	0	0	3	6	ELN6410	DETECTION THEORY	O	3	0	0	3	6
	ELN6413	CHAOS THEORY AND NONLINEAR SIGNAL PROCESSING	O	3	0	0	3	6	ELN6412	OPTICAL SWITCHING NETWORKS	O	3	0	0	3	6
	ELN6415	STATICAL PATTERN ANALYSIS AND CLASSIFICATION	O	3	0	0	3	6	ELN6414	ADVANCED COMPUTER VISION METHODS	O	3	0	0	3	6

| | | | | | | | | | Toplam Kredi | 12 | 30 | | | | | | | | | | | Toplam Kredi | 11 | 30 |

<table>
<tr><td rowspan="18">STAGE THESIS</td><td colspan="8" align="center">III. TERM / FALL</td><td colspan="8" align="center">IV. TERM / SPRING</td></tr>
<tr><td>ELN6183</td><td>ADVANCED TOPICS IN PHD THESIS III</td><td>C</td><td>4</td><td>0</td><td>0</td><td>0</td><td>5</td><td>ELN6184</td><td>ADVANCED TOPICS IN PHD THESIS IV</td><td>C</td><td>4</td><td>0</td><td>0</td><td>0</td><td>5</td></tr>
<tr><td>ELN6193</td><td>DISSERTATION SUPERVISION III</td><td>C</td><td>0</td><td>0</td><td>0</td><td>0</td><td>10</td><td>ELN6194</td><td>DISSERTATION SUPERVISION IV</td><td>C</td><td>0</td><td>0</td><td>0</td><td>0</td><td>25</td></tr>
<tr><td>YET6177</td><td>PHD PROFICIENCY</td><td>C</td><td>0</td><td>0</td><td>0</td><td>0</td><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td colspan="6" align="right">Toplam Kredi</td><td>0</td><td>30</td><td colspan="6" align="right">Toplam Kredi</td><td>0</td><td>30</td></tr>
<tr><td colspan="8" align="center">V. TERM / FALL</td><td colspan="8" align="center">VI. TERM / SPRING</td></tr>
<tr><td>ELN6185</td><td>ADVANCED TOPICS IN PHD THESIS V</td><td>C</td><td>4</td><td>0</td><td>0</td><td>0</td><td>5</td><td>ELN6186</td><td>ADVANCED TOPICS IN PHD THESIS VI</td><td>C</td><td>4</td><td>0</td><td>0</td><td>0</td><td>5</td></tr>
<tr><td>ELN6195</td><td>DISSERTATION SUPERVISION V</td><td>C</td><td>0</td><td>0</td><td>0</td><td>0</td><td>25</td><td>ELN6196</td><td>DISSERTATION SUPERVISION VI</td><td>C</td><td>0</td><td>0</td><td>0</td><td>0</td><td>25</td></tr>
<tr><td colspan="6" align="right">Toplam Kredi</td><td>0</td><td>30</td><td colspan="6" align="right">Toplam Kredi</td><td>0</td><td>30</td></tr>
<tr><td colspan="8" align="center">VII. TERM / FALL</td><td colspan="8" align="center">VIII. TERM / SPRING</td></tr>
<tr><td>ELN6187</td><td>ADVANCED TOPICS IN PHD THESIS VII</td><td>C</td><td>4</td><td>0</td><td>0</td><td>0</td><td>5</td><td>ELN6188</td><td>ADVANCED TOPICS IN PHD THESIS VIII</td><td>C</td><td>4</td><td>0</td><td>0</td><td>0</td><td>5</td></tr>
<tr><td>ELN6197</td><td>DISSERTATION SUPERVISION VII</td><td>C</td><td>0</td><td>0</td><td>0</td><td>0</td><td>25</td><td>ELN6198</td><td>DISSERTATION SUPERVISION VIII</td><td>C</td><td>0</td><td>0</td><td>0</td><td>0</td><td>25</td></tr>
<tr><td colspan="6" align="right">Toplam Kredi</td><td>0</td><td>30</td><td colspan="6" align="right">Toplam Kredi</td><td>0</td><td>30</td></tr>
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TOTAL CREDITS: 23   - TOTAL ECTS: 240

Not: The student is expected to take a total of 15 ECTS. credited 3 selective courses in fall term and a total of 20 ECTS. credited 4 selective courses in every academic term..

The student 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.

ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
2017-2018 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF	ELECTRONIC ENGINEERING
DEPARTMENT / PROGRAM	ELECTRONIC ENGINEERING / UNIFIED DOCTORAL 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
ELN6191	DISSERTATION SUPERVISION I	C	0	1	0	0	1	ELN6192	DISSERTATION SUPERVISION II	C	0	1	0	0	1
ELN6181	ADVANCED TOPICS IN PHD THESIS I	C	4	0	0	0	5	ELN6182	ADVANCED TOPICS IN PHD THESIS II	C	4	0	0	0	5
								ELN5504	ADVANCED TOPICS IN ENGINEERING MATHEMATICS I	C	3	0	0	3	6
ELN5503	NUMERICAL COMPUTING AND PROGRAMMING	O	3	0	0	3	6								
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
ELN5303	ADVANCED MICROELECTRONIC DEVICES	O	3	0	0	3	6	ELN5214	QUASI-OPTIC ELECTROMAGNETIC DIFFRACTION	O	3	0	0	3	6
ELN5305	SEMICONDUCTOR DEVICE MANUFACTURING TECHNOLOGIES	O	3	0	0	3	6	ELN5302	OPTOELECTRONIC CONVERTERS	O	3	0	0	3	6
ELN5401	ADVANCED SIGNAL PROCESSING	O	3	0	0	3	6	ELN5304	INTEGRATED OPTICS	O	3	0	0	3	6
ELN5403	MOBILE COMMUNICATION SYSTEMS	O	3	0	0	3	6	ELN5306	PHOTONIC DEVİCES	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

Row label (vertical): COURSE STAGE

Code	Course Title		T	U	L	Credit	ECTS	Code	Course Title		T	U	L	Credit	ECTS
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-SPACE AND LINEAR SYSTEM THEORY	O	3	0	0	3	6
ELN5417	MEDICAL IMAGING AND ANALYSIS TECHNIGUES	O	3	0	0	3	6	ELN5414	PHOTONIC AND OPTICAL SWITCHING METHODS	O	3	0	0	3	6
ELN5423	ANALYSIS OF DYNAMICAL SYSTEMS	O	3	0	0	3	6	ELN5416	ADAPTIVE FILTER THEORY	O	3	0	0	3	6
ELN5601	ELECTRIC POWER QUALITY	O	3	0	0	3	6	ELN5418	PATTERN RECOGNITION WITH NEURAL NETWORKS	O	3	0	0	3	6
ELN5603	ELECTRIC POWER SYSTEM ANALYSIS	O	3	0	0	3	6	ELN5420	MULTIMEDIA SECURITY	O	3	0	0	3	6
ELN5701	İNFORMATİON RETRIEVAL SYSTEMS	O	3	0	0	3	6	ELN5422	ADVANCED DIGITAL IMAGE PROCESSING	O	3	0	0	3	6
ELN5703	CRYPTOGRAPHY AND NETWORK SECURITY	O	3	0	0	3	6	ELN5602	ADVANCED COMPENSATION TECHNIQUES IN POWER SYSTEMS	O	3	0	0	3	6
								ELN5604	COMPUTER AIDED POWER SYSTEM ANALYSIS	O	3	0	0	3	6
								ELN5702	MACHİNE LEARNİNG	O	3	0	0	3	6
								ELN5704	COMPUTER SECURİTY	O	3	0	0	3	6
			Total Credits			**12**	**30**				**Total Credits**			**12**	**30**

Not: The student is expected to take a total of 24 ECTS. credited 4 selective courses in fall term and a total of 18 ECTS. credited 3 selective courses in every academic term..

The student have the option of choosing one selective course from another department with the endorsement of the supervisor.

	III. TERM / FALL							IV. TERM / SPRING						
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS
COURSE STAGE	ELN6191	DISSERTATION SUPERVISION III	C	0	1	0	0	1	ELN6192	DISSERTATION SUPERVISION IV	C	0	1	0	0	1
	ELN6181	ADVANCED TOPICS IN PHD THESIS III	C	4	0	0	0	5	ELN6182	ADVANCED TOPICS IN PHD THESIS IV	C	4	0	0	0	5
	ELN6503	ADVANCED TOPICS IN ENGINEERING MATHEMATICS III	C	3	0	0	3	6	ELN6172	SEMINAR	C	0	2	0	0	4
									FEN6000	RESEARCH TECHNIQUES and PUBLICATION ETHICS	C	2	0	0	2	2
	ELN6101	WAVELET TRANSFORMS AND THEIR APPLICATIONS	O	3	0	0	3	6	ELN6102	FUZZY LOGIC	O	3	0	0	3	6
	ELN6201	ADVANCED MICROWAVE	O	3	0	0	3	6	ELN6104	EVOLUTIONARY ALGORITHMS	O	3	0	0	3	6

		TECHNIC														
ELN6203	APPLICATIONS OF WIENEER-HOPF TECNIGUE IN DIFFRACTIONN THEORY	O	3	0	0	3	6	ELN6202	ADVANCED RADAR TECHNICS	O	3	0	0	3	6
ELN6205	RADAR CROSS SECTION PREDICTION AND REDUCTION TECHNIQUES	O	3	0	0	3	6	ELN6204	INTEGRAL EGUATION METHODS FOR ELECTROMAGNETICS	O	3	0	0	3	6
ELN6207	ANALYTICAL METHODS FOR ELEKTROMAGNETICS	O	3	0	0	3	6	ELN6206	RADIOWAVE PROPAGATION OVER GROUND	O	3	0	0	3	6
ELN6209	ADVANCED ELECTROMAGNETIC SCATTERING	O	3	0	0	3	6	ELN6208	NUMERICAL METHODS FOR ELEKTROMAGNETICS	O	3	0	0	3	6
ELN6301	OPTPELEKCTRONIC SYSTEMS	O	3	0	0	3	6	ELN6302	LASER BASED SYSTEMS	O	3	0	0	3	6
ELN6401	ESTIMATION THEORY	O	3	0	0	3	6	ELN6402	SPECTRUM ESTIMATION	O	3	0	0	3	6
ELN6403	COMMUNICATION THEORY	O	3	0	0	3	6	ELN6404	DIGITAL MODULATION AND CODING	O	3	0	0	3	6
ELN6405	NONLINEAR EFFECTS IN OPTICAL FIBERS	O	3	0	0	3	6	ELN6406	APPLICATIONS OF NONLINEAR FIBER OPTICS	O	3	0	0	3	6
ELN6407	ANALYSIS AND SYNTHESIS OF SPEECH SIGNALS	O	3	0	0	3	6	ELN6408	TELE-TRAFFIC ENGINEERING	O	3	0	0	3	6
ELN6409	ADVANCED SWITCHING SYSTEMS	O	3	0	0	3	6	ELN6410	DETECTION THEORY	O	3	0	0	3	6
ELN6413	CHAOS THEORY AND NONLINEAR SIGNAL PROCESSING	O	3	0	0	3	6	ELN6412	OPTICAL SWITCHING NETWORKS	O	3	0	0	3	6
ELN6415	STATICAL PATTERN ANALYSIS AND CLASSIFICATION	O	3	0	0	3	6	ELN6414	ADVANCED COMPUTER VISION METHODS	O	3	0	0	3	6
		Toplam Kredi				**14**	**30**			**Toplam Kredi**				**12**	**30**

	V. TERM / FALL								VI. TERM / SPRING						
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	DISSERTATION SUPERVISION V	C	0	0	0	0	10	ELN6196	DISSERTATION SUPERVISION VI	C	0	0	0	0	25
YET6177	PHD PROFICIENCY	C	0	0	0	0	15								
		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	DISSERTATION SUPERVISION VII	C	0	0	0	0	25	ELN6198	DISSERTATION SUPERVISION VIII	C	0	0	0	0	25
		Toplam Kredi				**0**	**30**			**Toplam Kredi**				**0**	**30**

	IX. TERM / FALL								X. TERM / SPRING						
ELN6189	ADVANCED TOPICS IN PHD THESIS IX	C	4	0	0	0	5	ELN6190	ADVANCED TOPICS IN PHD THESIS X	C	4	0	0	0	5

Note: **STAGE THESIS** (vertical label spanning the V.–X. term section)

ELN6199	DISSERTATION SUPERVISION IX	C	0	0	0	0	25	ELN6200	DISSERTATION SUPERVISION X	C	0	0	0	0	25
	Toplam Kredi					**0**	**30**		**Toplam Kredi**					**0**	**30**

TOTAL CREDITS: 47   - TOTAL ECTS: 300

Not: The student is expected to take a total of 15 ECTS. credited 3 selective courses in fall term and a total of 20 ECTS. credited 4 selective courses in every academic term..
The student 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.