

**ABDULLAH GÜL ÜNİVERSİTESİ / ABDULLAH GÜL UNIVERSITY**  
**Elektrik-Elektronik Mühendisliği Lisans Programı (Yeni) /**  
**Electrical-Electronics Engineering Undergraduate Program (New)**  
*(Lisans eğitimine 2016 Güz döneminden itibaren başlayanlar için)*  
*(For students who start their undergraduate education in Fall 2016)*

**1. SINIF / GÜZ YARIYILI (Freshman Year / FALL Semester)**

Course Code	Course Name	Lec.	Lab	Credits	ECTS
MATH 151	Calculus I	5	0	5	6
PHYS 101	Physics I	3	2	4	5
COMP 101	Art of Computing	3	2	4	6
ENG 101	English I	4	0	4	4
GLB 101	AGU Ways	3	0	3	4
	<i>Science Elective*</i>	3	2	4	5
Total Credits		21	6	24	30

\* EE100 Integrated Project I, CHEM 101 Chemistry for Engineers ve BIO 101 Biology for Engineers I derslerinden biri seçilecek (one of these three courses will be selected)

**1. SINIF / BAHAR YARIYILI (Freshman Year / SPRING Semester)**

Code	Course Name	PreReq	Lec.	Lab	Credits	ECTS
MATH 152	Calculus II	MATH 151	5	0	5	6
PHYS 102	Physics II		3	2	4	5
COMP 112	Object Oriented Programming	COMP 101	3	2	4	6
ENG 102	English II	ENG 101	4	0	4	4
GLB XXX	Global Issues Elective I		3	0	3	4
EE 102	Exploring Profession		3	2	4	5
Total Credits			21	6	24	30

**2. SINIF / GÜZ YARIYILI (Sophomore Year / FALL Semester)**

Code	Course Name	PreReq	Lec.	Lab	Credits	ECTS
MATH 205	Differential Equations	MATH 152	4	0	4	5
EE 201	Electric Circuits I		3	0	3	5
EE 211	Electric Circuits I Lab		0	2	1	2
EE 203	Digital Design		3	0	3	4
EE 213	Digital Design Lab		1	2	2	2
EE 205	Engineering Electromagnetics	MATH 152 PHYS 102	3	0	3	5
GLB XXX	Global Issues Elective II		3	0	3	4
TURK 101	Turkish I		2	0	2	2
Total Credits			19	4	21	29

**2. SINIF / BAHAR YARIYILI (Sophomore Year / SPRING Semester)**

Code	Course Name	PreReq	Lec.	Lab	Credits	ECTS
MATH 203	Linear Algebra		3	0	3	5
EE 202	Electric Circuits II	EE 201	3	0	3	5
EE 212	Electric Circuits II Lab		0	2	1	2
EE 204	Signals and Systems		3	2	4	6
EE 206	Electronics I	EE 203	3	0	3	5
EE 216	Electronics I Lab		0	2	1	2
GLB XXX	Global Issues Elective III		3	0	3	4
TURK 102	Turkish II		2	0	2	2
Total Credits			17	6	20	31

**3. SINIF / GÜZ YARIYILI (Junior Year / FALL Semester)**

Code	Course Name	PreReq	Lec.	Lab	Credits	ECTS
EE 299	Summer Training I*				0	4
MATH 301	Probability and Statistics	MATH 152	3	0	3	5
EE 311	Electronics II	EE 206	3	0	3	4
EE 321	Electronics II Lab		0	2	1	2
EE 303	Feedback Control Systems	EE 204	3	2	4	6
EE 307	Intro to Nanosci & Nanotech		3	0	3	4
GLB XXX	Global Issues Elective IV		3	0	3	3
HIST 201	History of Turkish Republic I		2	0	2	2
	Total Credits		17	4	19	30

\*At least three semesters in the program

**3. SINIF / BAHAR YARIYILI (Junior Year / SPRING Semester)**

Code	Course Name	PreReq	Lec.	Lab	Credits	ECTS
EE 491	Senior Project I		2	0	2	7
EE 308	Electric Machines and Drives		3	2	4	6
EE 306	Fund. of Telecommunications Engineering	EE 204 MATH 301	3	0	3	6
EE 304	Embedded Systems	EE 203	3	2	4	6
XXX	Nontechnical Elective		3	0	3	3
HIST 202	History of Turkish Republic II		2	0	2	2
	Total Credits		16	4	18	30

**4. SINIF / GÜZ YARIYILI (Senior Year / BAHAR Semester)**

Course Code	Course Name	Lec.	Lab	Credits	ECTS
EE 492	Senior Project II	2	0	2	9
OHS 401	Occupational Health and Safety I	2	0	2	1
	Concentration Area Elective				5
	Concentration Area Elective				5
	Concentration Area Elective				5
	Concentration Area Elective				5
	Total Credits				30

**4. SINIF / BAHAR YARIYILI (Senior Year / SPRING Semester)**

Course Code	Course Name	Lec.	Lab	Credits	ECTS
EE 400	Workplace Experience	1	0	1	29
OHS 402	Occupational Health and Safety II	0	0	0	1
	Total Credits			1	30

## Concentration Area Electives

(4 of these courses must be taken / bu derslerden 4'ü alınmak zorundadır)

Code	Course Name	Lec.	Lab	Credits	ECTS
EE 404	Antennas	3	0	3	5
EE 408	Microwave Engineering	3	0	3	5
EE 420	Flat Panel Display Technologies	3	0	3	5
EE 421	Geometrical Optics	3	0	3	5
EE 422	Nanophotonics	3	0	3	5
EE 423	Optics and Photonics	3	0	3	5
EE 424	Fiber Optic Communication	3	0	3	5
EE 432	Digital Signal Processing	3	0	3	5
EE 434	Sensors and Measurement	3	0	3	5
EE 440	Neural Engineering	3	0	3	5
EE 443	Biomedical Instrumentation and Signal Analysis	3	0	3	5
EE 445	Fundamentals of BioMEMS	3	0	3	5
EE 451	Power Electronics	3	0	3	5
EE 452	Electric Power Systems	3	0	3	5
EE 453	Power Distribution Systems	3	0	3	5
EE 454	High Voltage Techniques	3	0	3	5
EE 455	Introduction to Electric Drive Systems	3	0	3	5
EE 465	Data Mining	3	0	3	5
EE 473	Introduction to Robotics	3	0	3	5
EE 474	Applied Programmable Logic Controllers	3	0	3	5
EE 485	Semiconductor Device Fundamentals	3	0	3	5
EE 486	Semiconductor Process and Device Fabrication	3	0	3	5
COMP 301	Analysis of Algorithms	3	2	4	6
COMP 302	System Programming	3	2	4	5
COMP 303	Operating Systems	3	0	3	6
COMP 305	Computer Organization	3	0	3	6
COMP 306	Formal Languages and Automata Theory	3	2	4	6
COMP 308	Computer Networks	3	0	3	6
COMP 403	Blockchain and Cryptocurrencies	3	0	3	5
COMP 411	Communication Networks	3	0	3	5
COMP 430	Digital Image Processing	3	0	3	5
COMP 431	Computer Vision	3	0	3	5
COMP 455	Linux For Engineers and Scientists	3	0	3	6
COMP 461	Deep Learning	3	0	3	5
COMP 462	Bioinformatics	3	0	3	5
COMP 463	Computational Genomics	3	0	3	5
COMP 464	Pattern Recognition	3	0	3	5
COMP 465	Artificial Intelligence	3	0	3	5
COMP 482	Parallel Architectures	3	0	3	5

## GLB Electives

(4 GLB courses must be taken / 4 GLB kodlu ders alınmak zorundadır)

Code	Course Name	Lec.	Lab	Credits	ECTS
GLB 102	Innovation and Entrepreneurship	3	0	3	4
GLB 201	Food and Health	3	0	3	4
GLB 202	Immigration and Population	3	0	3	4
GLB 301	Sustainability	3	0	3	4