

<b>FIRST SEMESTER</b>			<b>Prerequisite - Co-requisite</b>	<b>Current ECTS credits</b>
EE	101	Introduction to Electrical Engineering	(2-0)	2
EE	103	Introduction to Programming	(3-2)	4
PHYS	121	General Physics I	(3-2)	4
CHEM	121	General Chemistry I	(3-0)	3
CHEM	141	General Chemistry Lab. I	(0-2)	1
MATH	141	Basic Calculus I	(3+2)	4
ENG	101	Development of Reading and Writing Skills I	(3-0)	3
<b>Total Number of Credits in the Semester :</b>			<b>21</b>	<b>30</b>

<b>SECOND SEMESTER</b>			<b>Prerequisite - Co-requisite</b>	<b>Current ECTS credits</b>
EE	142	Introduction to Logic Design	(3-2)	4
ENG	102	Development of Reading and Writing Skills II	(3-0)	3
PHYS	122	General Physics II	(3-2)	4
MATH	142	Basic Calculus II	(3-2)	4
MATH	265	Basic Linear Algebra	(3-0)	3
GCC	101	Career Planning And Development	(2-0)	NC
		Non-Technical Elective	(3-0)	3
<b>Total Number of Credits in the Semester :</b>			<b>21</b>	<b>33</b>

<b>THIRD SEMESTER</b>			<b>Prerequisite - Co-requisite</b>	<b>Current ECTS credits</b>
EE	201	Circuit Analysis I	(4-0)	4
EE	203	Electrical Circuits Laboratory	(0-4)	2
EE	221	Concepts of Modern Physics	(4-0)	4
MATH	241	Calculus III	(3+2)	4
MATH	255	Differential Equations	(4-0)	4
TURK	201	Turkish Language I	(2-0)	NC
TURK	203	Turkish for Foreigners I	(2-0)	NC
HIST	201	Principles of Atatürk I	(2-0)	NC
HIST	203	History of Turkish Revolution I	(2-0)	NC
<b>Total Number of Credits in the Semester :</b>			<b>18</b>	<b>33</b>

(\*) Mandatory courses for foreign students

<b>FOURTH SEMESTER</b>			<b>Prerequisite - Co-requisite</b>	<b>Current ECTS credits</b>
EE	202	Circuit Analysis II	(4-0)	4
EE	204	Scientific Programming for Electrical Engineering	(2-2)	3
EE	212	Electronics I	(4-0)	4
EE	222	Electromagnetic Theory I	(4-0)	4
TURK	202	Turkish Language II	(2-0)	NC
TURK	204	Turkish for Foreigners II	(2-0)	NC
HIST	202	Principles of Atatürk II	(2-0)	NC
HIST	204	History of Turkish Revolution II	(2-0)	NC
		Non-Technical Elective	(3-0)	3
<b>Total Number of Credits in the Semester :</b>			<b>18</b>	<b>31</b>

(\*) Mandatory courses for foreign students

<b>FIFTH SEMESTER</b>			<b>Prerequisite - Co-requisite</b>	<b>Current ECTS credits</b>	
EE	313	Electronics II	(4-0)	4	6
EE	315	Electronics Laboratory	(0-4)	2	3
EE	323	Electromagnetic Theory II	(3-0)	3	5
EE	331	Signals and Systems	(3-2)	4	7
EE	333	Fundamentals of Probability and Random Processes	(4-0)	4	6
EE	300	Summer Practice I	NC		5
<b>Total Number of Credits in the Semester :</b>			<b>17</b>		<b>32</b>

<b>SIXTH SEMESTER</b>			<b>Prerequisite - Co-requisite</b>	<b>Current ECTS credits</b>	
EE	316	Electronics Design Project	(1-4)	3	6
EE	342	Digital System Design	(3-2)	4	7
EE	352	Communication Systems I	(3-2)	4	7
EE	362	Feedback Control Systems	(4-0)	4	6
		Mathematics / Science / Engineering Elective	(3-0)	3	4
EE	300	Summer Practice I	NC		
<b>Total Number of Credits in the Semester :</b>			<b>18</b>		<b>30</b>

<b>SEVENTH SEMESTER</b>			<b>Prerequisite - Co-requisite</b>	<b>Current ECTS credits</b>	
EE	451	Communication Systems II	(3-2)	4	7
		Electrical Engineering Elective	(3-0)	3	6
		Electrical Engineering Elective	(3-0)	3	6
		Mathematics / Science / Engineering Elective	(3-0)	3	5
		Mathematics / Science / Engineering Elective	(3-0)	3	5
EE	400	Summer Practice II	NC		5
<b>Total Number of Credits in the Semester :</b>			<b>16</b>		<b>34</b>

<b>EIGHTH SEMESTER</b>			<b>Prerequisite - Co-requisite</b>	<b>Current ECTS credits</b>	
		Electrical Engineering Elective	(3-0)	3	6
		Electrical Engineering Elective	(3-0)	3	6
		Electrical Engineering Elective	(3-0)	3	6
		Mathematics / Science / Engineering Elective	(3-0)	3	5
		Mathematics / Science / Engineering Elective	(3-0)	3	5
EE	400	Summer Practice II	NC		
<b>Total Number of Credits in the Semester :</b>			<b>15</b>		<b>28</b>

**Total Credits :  
144**

<b>ELECTRICAL ENGINEERING ELECTIVE COURSE LIST</b>			<b>Prerequisite - Co-requisite</b>	<b>Current ECTS credits</b>	
EE	311	Digital Electronics	(3-0)	3	6
EE	334	Introduction to Numerical Computation for Electrical Engineers	(3-0)	3	6
EE	401	Neural Networks	(3-0)	3	6
EE	402	Introduction To Natural Language Processing	(3-0)	3	6

EE	411 Fundamentals of Photonics	(3-0) 3	6
EE	412 Lightwave Communication	(3-0) 3	6
EE	423 Antennas	(3-0) 3	6
EE	425 Microwave Engineering	(3-0) 3	6
EE	426 Introduction to Microwave and Antenna Measurements	(1-4) 3	6
EE	430 Introduction to Systems Biology	(3-0) 3	6
EE	431 Introduction to Image and Video Processing	(3-0) 3	6
EE	432 Speech Processing	(3-0) 3	6
EE	433 Introduction to Digital Signal Processing	(3-0) 3	6
EE	434 Biomedical Signal Processing	(3-0) 3	6
EE	436 Mathematical Foundations of Signal Processing and Systems	(3-0) 3	6
EE	440 Wireless Networking Technologies	(3-0) 3	6
EE	442 Computer Networks	(3-0) 3	6
EE	443 Embedded Systems	(3-2) 4	6
EE	444 Introduction to CMOS Integrated Circuit Design	(3-0) 3	6
EE	445 Supplementary Curricular Courses	(3-0) 3	6
EE	452 Digital Coding of Waveforms	(3-0) 3	6
EE	453 Software Defined Communications	(3-0) 3	6
		(3-0) 3	EE130, EE142, EE204, EE313 derslerinin alınması
EE	454 Introduction to Automotive Electronics		6
EE	455 Mobile Communication	(3-0) 3	6
EE	461 Nonlinear Control Systems	(3-0) 3	6
EE	462 Optimal Control	(3-0) 3	6
EE	463 Introduction to Robotics	(3-0) 3	6
EE	465 Industrial Power Electronics	(3-0) 3	6
EE	466 Advanced Industrial Power Electronics	(3-2) 4	6
EE	467 Introduction to Digital Control Systems	(3-0) 3	6
EE	470 Introduction To Software Engineering	(2-2) 3	6
EE	472 Nonlinear Time Series Analysis	(3-0) 3	6
EE	491 Project	(1-4) 3	6
EE	492 Project	(1-4) 3	6
EE	499 Cooperative Education Course	(0-6) 3	10