

<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	145	Calculus for Engineering and Science I	(4-2)	5
ENG	101	Development of Reading and Writing Skills I	(3-0)	3
<b>Total Number of Credits in the Semester :</b>			<b>22</b>	<b>32</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	146	Calculus for Engineering and Science II	(4-2)	5
MATH	265	Basic Linear Algebra	(3-0)	3
GCC	101	Career Planning And Development	(2-0)NC	2
<b>Total Number of Credits in the Semester :</b>			<b>19</b>	<b>32</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	255	Differential Equations	(4-0)	4
TURK	201	Turkish Language I	(2-0)NC	2
TURK	203	Turkish for Foreigners I	(2-0)NC	2
HIST	201	Principles of Atatürk I	(2-0)NC	2
HIST	203	History of Turkish Revolution I	(2-0)NC	2
		Non-Technical Elective	(3-0)	3
<b>Total Number of Credits in the Semester :</b>			<b>17</b>	<b>31</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	2
TURK	204	Turkish for Foreigners II	(2-0)NC	2
HIST	202	Principles of Atatürk II	(2-0)NC	2
HIST	204	History of Turkish Revolution II	(2-0)NC	2
		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 -</b>	<b>Current</b>
				<b>Co-requisite</b>	<b>ECTS</b>
					<b>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>		

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<b>SIXTH SEMESTER</b>				<b>Prerequisite -</b>	<b>Current</b>
				<b>Co-requisite</b>	<b>ECTS</b>
					<b>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		5
<b>Total Number of Credits in the Semester :</b>			<b>18</b>		35

<b>SEVENTH SEMESTER</b>				<b>Prerequisite -</b>	<b>Current</b>
				<b>Co-requisite</b>	<b>ECTS</b>
					<b>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>		34

<b>EIGHTH SEMESTER</b>				<b>Prerequisite -</b>	<b>Current</b>
				<b>Co-requisite</b>	<b>ECTS</b>
					<b>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>		28

**Total Credits :**  
**142**

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<b>ELECTRICAL ENGINEERING ELECTIVE COURSE LIST</b>				<b>Prerequisite -</b>	<b>Current</b>
				<b>Co-requisite</b>	<b>ECTS</b>
					<b>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	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	(3-0) 3	6
EE	444 Introduction to CMOS Integrated Circuit Design	(3-2) 4	6
EE	452 Digital Coding of Waveforms	(3-0) 3	6
EE	453 Software Defined Communications	(3-0) 3	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	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