

FIRST SEMESTER			Prerequisite - Co-requisite	Current ECTS credits
EE	101	Introduction to Electrical Engineering	(2-0) 2	2
EE	103	Introduction to Programming	(3-2) 4	6
PHYS	121	General Physics I	(3-2) 4	7
CHEM	121	General Chemistry I	(3-0) 3	5
CHEM	141	General Chemistry Lab. I	(0-2) 1	2
MATH	145	Calculus for Engineering and Science I	(4-2) 5	7
ENG	101	Development of Reading and Writing Skills I	(3-0) 3	3
Total Number of Credits in the Semester :			22	32

SECOND SEMESTER			Prerequisite - Co-requisite	Current ECTS credits
EE	142	Introduction to Logic Design	(3-2) 4	7
ENG	102	Development of Reading and Writing Skills II	(3-0) 3	3
PHYS	122	General Physics II	(3-2) 4	8
MATH	146	Calculus for Engineering and Science II	(4-2) 5	8
MATH	265	Basic Linear Algebra	(3-0) 3	4
Total Number of Credits in the Semester :			19	30

THIRD SEMESTER			Prerequisite - Co-requisite	Current ECTS credits
EE	201	Circuit Analysis I	(4-0) 4	7
EE	203	Electrical Circuits Laboratory	(0-4) 2	4
EE	221	Concepts of Modern Physics	(4-0) 4	7
MATH	255	Differential Equations	(4-0) 4	6
TURK	201	Turkish Language I	(2- ^ ^ ^ ^)	2
TURK	203	Turkish for Foreigners I	(2- ^ ^ ^ ^)	2
HIST	201	Principles of Atatürk I	(2- ^ ^ ^ ^)	2
HIST	203	History of Turkish Revolution I	(2- ^ ^ ^ ^)	2
		Non-Technical Elective	(3-0) 3	3
Total Number of Credits in the Semester :			17	31

(*) Mandatory courses for foreign students

FOURTH SEMESTER			Prerequisite - Co-requisite	Current ECTS credits
EE	202	Circuit Analysis II	(4-0) 4	7
EE	204	Scientific Programming for Electrical Engineering	(2-2) 3	5
EE	212	Electronics I	(4-0) 4	6
EE	222	Electromagnetic Theory I	(4-0) 4	6
TURK	202	Turkish Language II	(2- ^ ^ ^ ^)	2
TURK	204	Turkish for Foreigners II	(2- ^ ^ ^ ^)	2
HIST	202	Principles of Atatürk II	(2- ^ ^ ^ ^)	2
HIST	204	History of Turkish Revolution II	(2- ^ ^ ^ ^)	2
		Non-Technical Elective	(3-0) 3	3
Total Number of Credits in the Semester :			18	31

(*) Mandatory courses for foreign students

FIFTH SEMESTER			Prerequisite - Co-requisite	Current ECTS credits
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
Total Number of Credits in the Semester :			17	

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SIXTH SEMESTER			Prerequisite - Co-requisite	Current ECTS credits
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	
Total Number of Credits in the Semester :			18	30

SEVENTH SEMESTER			Prerequisite - Co-requisite	Current ECTS credits
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
Total Number of Credits in the Semester :			16	34

EIGHTH SEMESTER			Prerequisite - Co-requisite	Current ECTS credits
		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	
Total Number of Credits in the Semester :			15	28

**Total Credits :
142**

ELECTRICAL ENGINEERING ELECTIVE COURSE LIST			Prerequisite - Co-requisite	Current ECTS credits
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	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	(3-0) 3	6
EE	492 Project	(3-0) 3	6
EE	499 Cooperative Education Course	(0-6) 3	10