

ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

First Semester (Fall)

Code		Courses	Prerequisite	T	U	L	Y Credit	ECTS
EE	102	Introduction to Electrical and Electronics Engineering	-	1	0	2	2	3
AFE	131	Academic English I	-	2	2	0	3	4
CHEM	101	General Chemistry	-	3	1	1	4	6
HUM	103	Humanities	-	2	0	0	2	3
MATH	131	Calculus I	-	3	2	0	4	6
PHYS	101	Physics I	-	3	0	2	4	6
TKL	201	Turkish Language I	-	2	0	0	2	2
		Total		16	5	5	21	30

Second Semester (Spring)

Code		Courses	Prerequisite	T	U	L	Y Credit	ECTS
AFE	132	Academic English II	-	2	2	0	3	4
ES	112	Algoritms and Computer Programming	-	3	0	2	4	6
MATH	132	Calculus II	MATH 131	3	2	0	4	6
MATH	221	Linear Algebra	-	2	2	0	3	6
PHYS	102	Physics II	PHYS 101	3	0	2	4	6
TKL	202	Turkish Language II	-	2	0	0	2	2
		Total		15	6	4	20	30

Third Semester (Fall)

Code		Courses	Prerequisite	T	U	L	Y Credit	ECTS
EE	211	Electrical Circuits	-	3	0	2	4	7
EE	241	Digital Circuits	-	3	0	2	4	6
ES	272	Numerical Analysis	-	2	2	0	3	6
MATH	241	Differential Circuits	MATH 132	3	2	0	4	6
FE	xx1	Free Elective I	-	3	0	0	3	5
		Total		14	4	4	18	30

Fourth Semester (Spring)

Code		Courses	Prerequisite	T	U	L	Y Credit	ECTS
EE	212	Circuits and Systems	EE 211	3	0	0	3	7
EE	226	Fundamentals of Electromagnetic Fields	-	2	2	0	3	6
EE	232	Introduction to Electronics	EE 211	3	0	2	4	6
EE	242	Microprocessor Systems	ES 112	3	0	2	4	6
MATH	281	Probability	MATH 132	2	2	0	3	5
		Total		13	4	4	17	30

Fifth Semester (Fall)

Code		Courses	Prerequisite	T	U	L	Y Credit	ECTS
EE	323	Electromagnetic Waves and Transmission Lines	EE 226	3	0	2	4	8
EE	333	Analog Electronic Circuits	EE 232	3	0	2	4	8
EE	361	Introduction to Digital Signal Processing	-	3	0	2	4	7
EE	371	Electromechanical Energy Conversion	-	3	0	0	3	7
		Total		12	0	6	15	30

Sixth Semester (Spring)

Code		Courses	Prerequisite	T	U	L	Y Credit	ECTS
EE	334	Digital Electronic Circuits	EE 241	3	0	2	4	8
EE	354	Communication Systems	EE 361	3	0	2	4	8
EE	372	Fundamentals of Power Systems	-	3	0	0	3	7
EE	384	Introduction to Control Systems	EE 361	3	0	2	4	7
		Total		12	0	6	15	30

Seventh Semester (Fall)								
Code		Courses	Prerequisite	T	U	L	Y Credit	ECTS
EE	421	Antennas and Propagation	-	2	0	2	3	8
EE	xx1	Restricted Elective I	-	3	0	0	3	5
EE	xx2	Restricted Elective II	-	3	0	0	3	5
EE	xx3	Restricted Elective III	-	3	0	0	3	5
EE	400	Summer Practice	AFE 132	0	2	0	0	1
ES	301	Engineering Management	-	3	0	0	3	4
HTR	301	History of Turkish Revolution I	-	2	0	0	2	2
		Total		16	2	2	17	30
Eighth Semester (Spring)								
Code		Courses	Prerequisite	T	U	L	Y Credit	ECTS
EE	492	Engineering Project	-	1	0	4	3	8
EE	xx4	Restricted Elective IV	-	3	0	0	3	5
EE	xx5	Restricted Elective V	-	3	0	0	3	5
EE	xx6	Restricted Elective VI	-	3	0	0	3	5
FE	xx2	Free Elective II	-	3	0	0	3	5
HTR	302	History of Turkish Revolution II	-	2	0	0	2	2
		Total		15	0	4	17	30
		Overall					140	240
Area Electives								
Code		Courses	Prerequisite	T	U	L	Y Credit	ECTS
EE	426	Fiber Optics	-	3	0	0	3	5
EE	429	Biomedical Electromagnetics	-	3	0	0	3	5
EE	432	Industrial Electronics	-	2	0	2	3	5
EE	433	Physical Design of Integrated Circuits	-	3	0	0	3	5
EE	434	Analog Integrated Circuit Design	-	3	0	0	3	5
EE	439	High Frequency Electronics	-	3	0	0	3	5
EE	455	Radar Systems	-	3	0	0	3	5
EE	456	Introduction to Coding and Information Theory	-	3	0	0	3	5
EE	458	Wireless Communication	-	3	0	0	3	5
EE	487	Robotics	-	3	0	0	3	5
EE	489	Digital Control Systems	-	3	0	0	3	5
EE	468	Digital Signal Processing	-	2	0	2	3	5
EE	469	Image Processing	-	3	0	0	3	5
EE	446	Audio and Electroacoustics	-	3	0	0	3	5
EE	481	Solar and Wind Energy Systems	-	3	0	0	3	5
EE	475	High Voltage Technique*	-	3	0	0	3	5
EE	477	Electrical Distribution Systems *	-	3	0	0	3	5
EE	479	Electric Machines *	-	3	0	0	3	5