

Electrical & Electronics Eng. 2013 Curriculum

Name in stage.atilim.edu.tr/Atacs: EE-CUR- 2010-2011 Güz Dönemi- 1

FIRST YEAR

1. Semester

Code	Name of the Course	Credits	ECTS
CEAC105	General Chemistry	(3-2) 4	5
CMPE101	Int. To Computers and Programming	(2-2) 3	3
EE101	Engineering Fundamentals	(1-0) 1	3
ENG101	English Communication Skills I	(4-0) 4	3.5
MATH157	Extended Calculus I	(4-2) 5	7.5
PHYS101	Physics I	(3-2) 4	6

2. Semester

Code	Name of the Course	Credits	ECTS
CMPE102	Computer Programming	(2-2) 3	4
EE103	Int. to Electrical and Electronics Eng.	(2-2) 3	3
ENG102	English Communication Skills II	(4-0) 4	3.5
MATH158	Extended Calculus II	(4-2) 5	7.5
PHYS102	Physics II	(3-2) 4	6

SECOND YEAR

3. Semester

Code	Name of the Course	Credits	ECTS
EE203	Digital Circuits & Systems	(3-2) 4	6
EE209	Circuit Analysis I	(4-2) 5	8
ENG201	Advanced Communication Skills	(3-0) 3	3
HIST111	Princ.of Atatürk & Hist. of Turk Rev.	(2-0) 2	2
MATH275	Linear Algebra	(4-0) 4	6
TURK401	Turkish Language I	(2-0) 2	2

4. Semester

Code	Name of the Course	Credits	ECTS
EE210	Circuit Analysis II	(3-0) 3	8
EE212	Electronic Circuits I	(3-2) 4	8
ENG204	Report Writing Skills	(2-0) 2	2
HIST112	Princ.of Atatürk & Hist. of Turk Rev.	(2-0) 2	2
MATH276	Differential Equations	(4-0) 4	6
TURK402	Turkish Language I	(2-0) 2	2

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THIRD YE/

5. Semester

Code	Name of the Course	Credits	ECTS
MATH380	Numerical Methods for Engineers	(3-1) 3	5
EE303	Signals and Systems	(3-1) 3	7
EE319	Engineering Electromagnetics	(4-0) 4	7
EE213	Probability and Random Processes	(3-0) 3	7
EE315	Digital Integrated Circuits and Systems	(3-0) 3	6
EE313	Electronic Circuits II	(3-2) 4	7

6. Semester

Code	Name of the Course	Credits	ECTS
EE306	Digital Signal Processing	(3-2) 4	6
EE310	RF and Microwave Engineering	(3-2) 4	6
EE222	Microcontrollers	(3-2) 4	7
EE316	Communication Systems	(3-2) 4	6
EE326	Control Systems	(3-0) 3	5
EE399	Summer Practice I	NC	6

FOURTH YEAR

7. Semester

Code	Name of the Course	Credits	ECTS
IE305	Eng. Economic Analysis	(2-0) 2	5
EE493	Engineering Design Project I	(0-4) 2	9
EE352	Electromechanical Energy Conversion	(3-2) 4	6
	Area Elective 1 (B/C)	3	5
	Area Elective 2 (B/C)	3	5
	General Elective 1	(3-0)3	4

8. Semester

Code	Name of the Course	Credits	ECTS
EE494	Engineering Design Project II	(0-4) 2	8
	Area Elective 3 (B/C)	3	5
	Area Elective 4 (B/C)	3	5
	Area Elective 5 (B/C)	3	5
	General Elective 2	(3-0)3	4
ORY400	Part. in Social and Cultural Activities	0	1
EE499	Summer Practice II	NC	4

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Area Electives (B/C)

Code	Name of the Course	T	A	C	ECTS
<u>EE403</u>	Communication Networks	3	0	3	5
<u>EE405</u>	Antennas and Propagation	3	0	3	5
<u>EE406</u>	Optical Communication Systems	3	0	3	5
<u>EE408</u>	Satellite Communications	3	0	3	5
<u>EE410</u>	Communication Electronics	3	0	3	5
<u>EE422</u>	Statistical Signal Processing	3	0	3	5
<u>EE423</u>	Neural Networks and Applications	3	0	3	5
<u>EE424</u>	Adaptive Systems and Signal Processing	3	0	3	5
<u>EE426</u>	Real Time Signal Processing	3	0	3	5
<u>EE430</u>	Computer Vision	3	0	3	5
<u>EE432</u>	VLSI Design	3	0	3	5
<u>EE433</u>	RF Microelectronics	3	0	3	5
<u>EE434</u>	Microwave Circuit Design	3	0	3	5
<u>EE435</u>	Optoelectronics	3	0	3	5
<u>EE445</u>	Introduction to Robotics	3	0	3	5
<u>EE448</u>	Pattern Recognition	3	0	3	5
<u>EE451</u>	Power Systems Analysis	3	0	3	5
<u>EE452</u>	High Voltage Techniques	3	0	3	5
<u>EE401</u>	Digital Communications	2	2	3	5
<u>EE421</u>	Digital Image Processing	2	2	3	5
<u>EE425</u>	Advanced Digital Design with HDL	2	2	3	5
<u>EE402</u>	Wireless Communications	2	2	3	5
<u>EE404</u>	Radar Systems	2	2	3	5
<u>MECE422</u>	Interdisciplinary Engineering Design	2	2	3	6