

ELECTRICAL-ELECTRONICS ENGINEERING DEPARTMENT 2017-2018  
ACADEMIC YEAR NEW CURRICULUM

**1. SEMESTER**

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0500101	Physics I	Z	4	2	0	5	6
2	0500102	Chemistry I	Z	3	2	0	4	6
3	0500103	Calculus I	Z	4	0	0	4	6
4	0500105	AİİT I	Z	2	0	0	2	1
5	0500106	Turkish Language I	Z	2	0	0	2	1
6	0500107	Foreign Language I	Z	2	0	0	2	1
7	0507137	Linear Algebra	Z	3	0	0	3	4
8	0507109	Algorithm and Programming I	Z	2	0	2	3	5
<b>TOTAL</b>				<b>22</b>	<b>4</b>	<b>2</b>	<b>25</b>	<b>30</b>

**2. SEMESTER**

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0500201	Physics II	Z	4	2	0	5	6
2	0500202	Calculus II	Z	4	0	0	4	6
3	0500205	AİİT II	Z	2	0	0	2	1
4	0500206	Turkish Language II	Z	2	0	0	2	1
5	0500207	Foreign Language II	Z	2	0	0	2	1
6	0507237	Numerical Analysis	Z	3	0	0	3	6
7	0507209	Algorithm and Programming II	Z	2	0	2	3	6
8	0507210	Introduction to Electrical-Electronics Engineering	Z	2	0	0	2	3
<b>TOTAL</b>				<b>21</b>	<b>2</b>	<b>2</b>	<b>23</b>	<b>30</b>

### 3. SEMESTER

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0500301	Statistics	Z	3	0	0	3	4
2	0507301	Engineering Mathematics	Z	3	0	0	3	6
3	0507303	Electric Circuits I	Z	4	0	0	4	6
4	0507304	Electric Circuit and Design Lab. I	Z	0	0	2	1	2
5	0507335	Digital Logic Circuits	Z	3	0	0	3	5
6	0507306	Digital Logic Circuits and Design Lab	Z	0	0	2	1	2
7	0507337	Economy	Z	2	0	0	2	3
8		Social Selective I	S	2	0	0	2	2
<b>TOTAL</b>				<b>17</b>	<b>0</b>	<b>4</b>	<b>19</b>	<b>30</b>

#### Social Selective I

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0507308	Occupational Health and Safety	S	2	0	0	2	2
2	0507309	Business Law	S	2	0	0	2	2
3	0507310	History of Science	S	2	0	0	2	2
4	0507311	History of Art	S	2	0	0	2	2
5	0507312	Self Improvement	S	2	0	0	2	2
6	0507313	Science of Business	S	2	0	0	2	2
7	0507314	Engineering Ethics	S	2	0	0	2	2
8	0507315	Vocational English	S	2	0	0	2	2
9	0507316	Academic Writing	S	2	0	0	2	2

### 4. SEMESTER

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0507431	Electric Circuits II	Z	4	0	0	4	5
2	0507432	Electronic Circuits II	Z	4	0	0	4	5
3	0507403	Electronic Circuits and Design Lab. II	Z	0	0	2	1	2
4	0507434	Electromagnetic Wave Theory	Z	3	0	0	3	4
5	0507436	Signals and Systems	Z	3	0	0	3	4
6	0507407	Differential Equations	Z	3	0	0	3	5
7	0507408	Probability and Random Variables	Z	3	0	0	3	5
<b>TOTAL</b>				<b>20</b>	<b>0</b>	<b>2</b>	<b>21</b>	<b>30</b>

**5. SEMESTER**

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0507531	Electronic Circuits II	Z	4	0	0	4	5
2	0507502	Electronic Circuits and Design Lab. II	Z	0	0	2	1	2
3	0507503	Electric Machinery I	Z	3	0	0	3	5
4	0507504	Electric Machinery and Design Lab I	Z	0	0	2	1	2
5	0507535	Automatic Control Systems	Z	4	0	0	4	5
6	0507506	Communication	Z	3	0	0	3	5
7	0507507	Communication Lab.	Z	0	0	2	1	2
8	0507509	Electromagnetic Wave Theory	Z	3	0	0	3	4
<b>TOTAL</b>				<b>17</b>	<b>0</b>	<b>6</b>	<b>20</b>	<b>30</b>

**6. SEMESTER**

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0507601	Electric Machinery II	Z	3	0	0	3	5
2	0507602	Electric Machinery and Design Lab II	Z	0	0	2	1	2
3	0507603	Microprocessors	Z	4	0	0	4	6
4	0507604	Microprocessor and Design Lab.	Z	0	0	2	1	2
5	0507605	Project	Z	1	2	0	2	2
6		Social Selective II	S	2	0	0	2	3
7		Vocational Selective II	S	3	0	0	3	5
8		Vocational Selective II	S	3	0	0	3	5
<b>TOTAL</b>				<b>16</b>	<b>2</b>	<b>4</b>	<b>19</b>	<b>30</b>

**Social Selective II**

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0507606	Photography	S	2	0	0	2	3
2	0507607	Fine Arts	S	2	0	0	2	3
3	0507608	Introduction to Philosophy	S	2	0	0	2	3
4	0507609	Sociology	S	2	0	0	2	3
5	0507610	Archeology	S	2	0	0	2	3
6	0507611	Philosophy of Science	S	2	0	0	2	3
7	0507612	Chinese	S	2	0	0	2	3
8	0507613	Arabic	S	2	0	0	2	3
9	0507614	Italian	S	2	0	0	2	3
10	0507615	German	S	2	0	0	2	3
11	0507616	English Writing and Speaking	S	2	0	0	2	3

**6. SEMESTER VOCATIONAL SELECTIVE LECTURES**

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0507617	Electrical Facilities	S	3	0	0	3	5
2	0507618	Power Electronics	S	3	0	0	3	5
3	0507619	Digital Electronics Circuits	S	3	0	0	3	5
4	0507620	Microelectronic Circuits	S	3	0	0	3	5
5	0507631	Digital Communication Systems	S	3	2	0	4	5
6	0507623	Electromechanical Energy Conversion	S	3	0	0	3	5
7	0507624	Digital Signal Processing	S	3	0	0	3	5

## 7. YARIYIL

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0507701	Graduation Project I	Z	0	4	0	2	5
2		Vocational Selective III	S	3	0	0	3	5
3		Vocational Selective IV	S	3	0	0	3	5
4		Vocational Selective V	S	3	0	0	3	5
5		Vocational Selective VI	S	3	0	0	3	5
6		Vocational Selective VII	S	3	0	0	3	5
TOTAL				15	4	0	17	30

## 7. SEMESTER VOCATIONAL SELECTIVES

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0507702	Special Topics in Electrical-Electronics Engineering I	S	3	0	0	3	5
2	0507703	Linear System Theory	S	3	0	0	3	5
3	0507704	Data Structures	S	3	0	0	3	5
4	0507705	Object Oriented Programming	S	3	0	0	3	5
5	0507706	Computer Operating Systems	S	3	0	0	3	5
6	0507707	Web Design	S	3	0	0	3	5
7	0507708	Microwave Electronics	S	3	0	0	3	5
8	0507709	Analog Filter Design	S	3	0	0	3	5
9	0507710	Electronic Circuit Design	S	3	0	0	3	5
10	0507711	Analog Integrated Circuit Design	S	3	0	0	3	5
11	0507712	Digital Filter Design	S	3	0	0	3	5
12	0507713	Modern Measurement Technique	S	3	0	0	3	5
13	0507714	Radio Communication	S	3	0	0	3	5
14	0507715	Microwave Technique	S	3	0	0	3	5
15	0507716	Data Communication	S	3	0	0	3	5
16	0507717	Antennas	S					
17	0507718	PLC (Programmable Logic Controllers)	S	3	0	0	3	5
18	0507719	Microcontrollers and Industrial Applications	S	3	0	0	3	5
19	0507720	Introduction to Robotics	S	3	0	0	3	5
20	0507721	Industrial Electronics	S	3	0	0	3	5
21	0507722	Digital Control Systems	S	3	0	0	3	5
22	0507723	Lighting and Indoor Installation	S	3	0	0	3	5
23	0507724	High Voltage Technique	S	3	0	0	3	5
24	0507725	Power System Analysis I	S	3	0	0	3	5
25	0507726	Photovoltaic Systems	S	3	0	0	3	5

26	0507727	Semiconductor Power Converters	S	3	0	0	3	5
27	0507728	Fuzzy Logic	S	3	0	0	3	5
28	0507729	Machine Learning	S	3	0	0	3	5

## 8. SEMESTER

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
	0507801	Graduation Project II	Z	0	4	0	2	5
		Vocational Selective VIII	S	3	0	0	3	5
		Vocational Selective IX	S	3	0	0	3	5
		Vocational Selective X	S	3	0	0	3	5
		Vocational Selective XI	S	3	0	0	3	5
		Vocational Selective XII	S	3	0	0	3	5
<b>TOTAL</b>				<b>15</b>	<b>4</b>	<b>0</b>	<b>17</b>	<b>30</b>

## 8. SEMESTER VOCATIONAL SELECTIVES

No	Code	Lecture Title	Z/S	T	A	L	K	AKTS
1	0507802	Special Topics in Electrical-Electronics II	S	3	0	0	3	5
2	0507803	Computer Networks	S	3	0	0	3	5
3	0507805	Artificial Neural Networks	S	3	0	0	3	5
4	0507806	Image Processing	S	3	0	0	3	5
5	0507807	Foundations of Biomedical Engineering	S	3	0	0	3	5
6	0507809	Microcontrollers	S	3	0	0	3	5
7	0507810	Optic Communicaiton	S	3	0	0	3	5
8	0507811	Smart Control Systems	S	3	0	0	3	5
9	0507812	Computer Applications for Control Engineering	S	3	0	0	3	5
10	0507813	Design of Power Electronics Circuits	S	3	0	0	3	5
11	0507814	Foundations of Mechatronic Engineering	S	3	0	0	3	5
12	0507815	Power System Analysis II	S	3	0	0	3	5
13	0507816	Energy Distribution	S	3	0	0	3	5
14	0507817	Electrical Facilities Project	S	3	0	0	3	5
15	0507818	Renewable Energy Systems	S	3	0	0	3	5
16	0507819	Safety on Electrical Facilities	S	3	0	0	3	5
17	0507820	Protection Techniques on Electrical Facilities	S	3	0	0	3	5
18	0507821	Building Automation	S	3	0	0	3	5
19	0507822	Industrial Control	S	3	0	0	3	5
20	0507823	Embedded System Design	S	3	0	0	3	5
21	0507824	Communication Systems Design	S	3	0	0	3	5

22	0507825	Foundations of Medical Imaging	S	3	0	0	3	5
23	0507826	Low Voltage Power Systems	S	3	0	0	3	5