

# Course List

## 1<sup>st</sup> SEMESTER:

Course Code	Course Name	Theoric	Lab	Credit	ECTS
EEE 121	General Physics I	3	2	4	5
EEE 103	Calculus I	4	0	4	5
EEE 111	Technical English I	3	0	3	4
EEE 113	Introduction to Electrical Engineering	2	0	2	5
EEE 117	Computer Programming	3	2	4	7
UTD 101	Turkish Language I	2	0	2	2
UAI 101	Atatürk's Principles and History of Turkish Rev. I	2	0	2	2
	<b>TOTAL</b>	<b>19</b>	<b>4</b>	<b>21</b>	<b>30</b>

## 2<sup>nd</sup> SEMESTER:

Course Code	Course Name	Theoric	Lab	Credit	ECTS
EEE 122	General Physics II	3	2	4	5
EEE 104	Calculus II	4	0	4	5
EEE 112	Technical English II	3	0	3	4
EEE 114	Engineering Drawing	2	0	2	4
EEE 118	Linear Algebra and Vectors	3	0	3	4
EEE 120	General Chemistry	3	0	3	4
UTD 102	Turkish Language II	2	0	2	2
UAI 102	Atatürk's Principles and History of Turkish Rev II	2	0	2	2
	<b>TOTAL</b>	<b>22</b>	<b>2</b>	<b>23</b>	<b>30</b>

### 3<sup>rd</sup> SEMESTER:

Course Code	Course Name	Theoric	Lab	Credit	ECTS
EEE 203	Complex Calculus	3	0	3	5
EEE 209	Differential Equations	4	0	4	7
EEE 213	Semiconductor Devices	3	0	3	5
EEE 217	Electrical Engineering Materials	2	0	2	3
EEE 219	Economics	2	0	2	3
EEE 221	Circuit Theory	4	2	5	7
	<b>TOTAL</b>	<b>18</b>	<b>2</b>	<b>19</b>	<b>30</b>

### 4<sup>th</sup> SEMESTER:

Course Code	Course Name	Theoric	Lab	Credit	ECTS
EEE 210	Electromagnetic Fields Theory	4	0	4	6
EEE 214	Probability And Random Variables	3	0	3	5
EEE 224	Circuit Theory II	4	2	5	6
EEE 226	Electronic Circuits	4	2	5	7
EEE 228	Numerical Methods	3	2	4	6
	<b>TOTAL</b>	<b>18</b>	<b>6</b>	<b>21</b>	<b>30</b>

## 5<sup>th</sup> SEMESTER:

Course Code	Course Name	Theoric	Lab	Credit	ECTS
EEE 307	Logic Circuits	3	0	3	5
EEE 327	Electromechanical Energy Conversion I	4	2	5	6
EEE 317	Utilization of Electrical Energy	3	0	3	5
EEE 323	Electromagnetic Waves	3	0	3	5
EEE 329	Linear Integrated Circuits	4	2	5	6
	Non-Field Elective Course I	2	0	2	3
	<b>TOTAL</b>	<b>19</b>	<b>4</b>	<b>21</b>	<b>30</b>

## 6<sup>th</sup> SEMESTER:

Course Code	Course Name	Theoric	Lab	Credit	ECTS
EEE 330	Signals and Systems	4	0	4	4
EEE 318	Electromechanical Energy Conversion II	4	2	5	6
EEE 332	Digital Design	3	2	4	5
EEE 334	Control Theory	4	2	5	6
EEE 328	Digital Electronics	3	2	4	6
	Non-Field Elective Course II	2	0	2	3
	<b>TOTAL</b>	<b>20</b>	<b>8</b>	<b>24</b>	<b>30</b>

## 7<sup>th</sup> SEMESTER:

Course Code	Course Name	Theoric	Lab	Credit	ECTS
EEE 497	Occupational Health and Safety I	2	0	2	3
	Non-Field Elective Course III	2	0	2	3
<b>Elective Courses</b>					
Course Code	Course Name	Theoric	Lab	Credit	ECTS
EEE 421	Microprocessors	3	2	4	5
EEES 401	Digital Signal Processing	3	0	3	4
EEES 403	Programming Languages	3	0	3	4
EEES 407	Microwaves I	3	0	3	4
EEE 423	Process Control	3	2	4	5
EEE 415	Power System Analysis I	3	2	4	5
EEES 409	Illumination Techniques	3	0	3	4
EEE 433	Power Electronics I	3	2	4	5
EEES 411	Computer-Aided Design & Analysis of Elec.Circ.	3	0	3	4
EEE 419	Programmable Logic Controllers	3	2	4	5
EEE 483	Analog Communication Systems	3	2	4	5
EEES 405	Professional Engineering Development	3	0	3	4
EEE 495	Introduction to Embedded Systems Design	3	2	4	5
EEES 415	Introduction to Internet of Things	3	0	3	4

## 8<sup>th</sup> SEMESTER:

Course Code	Course Name	Theoric	Lab	Credit	ECTS
*EEE 434	Graduation Thesis	0	3	1.5	4
EEE 468	Occupational Health and Safety II	2	0	2	3
	Non-Field Elective Course IV	2	0	2	3
<b>Elective Courses</b>					
Course Code	Course Name	Theoric	Lab	Credit	ECTS
EEES 414	Microprocessor Interfacing Systems	3	0	3	4
EEES 400	High Voltage Techniques	3	0	3	4
EEE 444	Microwaves II	3	2	4	5
EEES 404	Computer Networks	3	0	3	4
EEE 424	Power Electronics II	3	2	4	5
EEE 428	Electronic Instrumentation and Measurements	3	0	3	5
EEE 480	Power System Analysis II	3	2	4	5
EEE 474	Database Programming for Internet Applications	3	2	4	5
EEE 490	Embedded Systems	3	2	4	5
EEE 492	Digital Communication Systems	3	2	4	5
EEE 494	Digital Television	3	0	3	5
EEES 410	Electrical Power Gen. and Renewable Energy	3	0	3	4
EEE 410	Antennas and Propagation	3	2	4	5
EEES 406	Data Analytics for Internet of Things	3	0	3	4