

**IZMIR DEMOCRACY UNIVERSITY**  
**ENGINEERING FACULTY**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**CURRICULUM (FOR ENTERING FALL 2019 AND LATER)**

1. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
ATA 101	Principals of Atatürk and Revolution History I	Atatürk İlkeleri ve İnkılap Tarihi I	2	0	2	2
EEE 101	Introduction to Electrical and Electronics Engineering and Ethics	Elektrik Elektronik Mühendisliğine Giriş ve Etik	2	0	2	2
EEE 103	Introduction to Programming	Programlamaya Giriş	2	2	3	5
PHYS 101	Physics I	Fizik I	3	2	4	7
CHEM 101	General Chemistry	Genel Kimya	3	0	3	3
MATH 101	Mathematics I	Matematik I	4	0	4	7
TDL 101	Turkish Language I	Türk Dili I	2	0	2	2
EAP 101	English for Academic Purposes I	Akademik Amaçlı İngilizce I	1	2	2	2
			<b>19</b>	<b>6</b>	<b>22</b>	<b>30</b>

2. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
ATA 102	Principles of Atatürk and Revolution History II	Atatürk İlkeleri ve İnkılap Tarihi II	2	0	2	2
EEE 102	Lineer Algebra	Lineer Cebir	3	0	3	4
PHYS 102	Physics II	Fizik II	3	2	4	7
MATH 102	Mathematics II	Matematik II	4	0	4	7
TDL 102	Turkish Language II	Türk Dili II	2	0	2	2
EAP102	English for Academic Purposes II	Akademik Amaçlı İngilizce II	1	2	2	2
TEC 001	Technical Elective Courses I	Teknik Seçmeli Ders I	2	2	3	4
KRY 100	Career Planning	Kariyer Planlama	1	0	1	2
			<b>18</b>	<b>6</b>	<b>21</b>	<b>30</b>

3. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
EEE 201	Circuit Analysis I	Devre Analizi I	4	2	5	7
EEE 203	Introduction to Logic Design	Mantıksal Tasarıma Giriş	3	2	4	6
EEE 205	Introduction to Data Science with Python	Python ile Veri Bilimine Giriş	3	0	3	4
EEE 207	Differential Equations	Diferansiyel Denklemler	4	0	4	5
EASS 201	English for Academic Speaking Skills	Akademik Konuşma Becerileri için İngilizce	3	0	3	4
OHS 201	Occupational Health and Safety-I	İş Sağlığı ve Güvenliği-I	2	0	2	2
USEC 001	University Elective Course I	Üniversite Seçmeli Ders I	2	0	2	2
			<b>21</b>	<b>4</b>	<b>23</b>	<b>30</b>

4. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
EEE 202	Circuit Analysis II	Devre Analizi II	4	2	5	7
EEE 204	Analog Electronics I	Analog Elektronik I	4	2	5	7
EEE 206	Electromagnetic Theory	Elektromanyetik Teori	4	0	4	5
EEE 208	Probability and Random Variables	Olasılık ve Rastgele Değişkenler	3	0	3	4
TEC 002	Technical Elective Courses II	Teknik Seçmeli Ders II	3	0	3	3
OHS 202	Occupational Health and Safety-II	İş Sağlığı ve Güvenliği-II	2	0	2	2
USEC 002	University Elective Course II	Üniversite Seçmeli Ders II	2	0	2	2
			<b>22</b>	<b>4</b>	<b>24</b>	<b>30</b>

5. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
EEE 300	Summer Practice I	Yaz Stajı I	0	0	0	2
EEE 301	Signals and Systems	Sinyaller ve Sistemler	2	2	3	6
EEE 303	Project Planning and Management	Proje Planlama ve Yönetimi	3	0	3	5
TEC 003	Technical Elective Courses III	Teknik Seçmeli Ders III	2	2	3	5
TEC 003	Technical Elective Courses III	Teknik Seçmeli Ders III	2	2	3	5
TEC 003	Technical Elective Courses III	Teknik Seçmeli Ders III	2	2	3	5
USEC 003	University Elective Course III	Üniversite Seçmeli Ders III	2	0	2	2
			<b>13</b>	<b>8</b>	<b>17</b>	<b>30</b>

6. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
EEE 302	Digital Signal Processing	Sayısal Sinyal İşleme	3	2	4	7
EEE 304	Control Theory	Kontrol Teorisi	2	2	3	6
TEC 004	Technical Elective Courses IV	Teknik Seçmeli Ders IV	2	2	3	5
TEC 004	Technical Elective Courses IV	Teknik Seçmeli Ders IV	2	2	3	5
TEC 004	Technical Elective Courses IV	Teknik Seçmeli Ders IV	2	2	3	5
USEC 004	University Elective Course IV	Üniversite Seçmeli Ders IV	2	0	2	2
			<b>13</b>	<b>10</b>	<b>18</b>	<b>30</b>

7. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
EEE 400	Summer Practice II	Yaz Stajı II	0	0	0	2
EEE 401	Project-I	Proje-I	2	2	3	8
TEC 005	Technical Elective Courses V	Teknik Seçmeli Ders V	3	0	3	5
TEC 005	Technical Elective Courses V	Teknik Seçmeli Ders V	3	0	3	5
TEC 005	Technical Elective Courses V	Teknik Seçmeli Ders V	3	0	3	5
TEC 005	Technical Elective Courses V	Teknik Seçmeli Ders V	3	0	3	5
			<b>14</b>	<b>2</b>	<b>15</b>	<b>30</b>

8. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
EEE 402	Project-II	Proje-II *	2	2	3	10
TEC 006	Technical Elective Courses VI	Teknik Seçmeli Ders VI	3	0	3	5
TEC 006	Technical Elective Courses VI	Teknik Seçmeli Ders VI	3	0	3	5
TEC 006	Technical Elective Courses VI	Teknik Seçmeli Ders VI	3	0	3	5
TEC 006	Technical Elective Courses VI	Teknik Seçmeli Ders VI	3	0	3	5
WTP 402	Workplace Training Practice	İş Yerinde Eğitim Uygulaması	0	18	9	20
			<b>14</b>	<b>2</b>	<b>15</b>	<b>30</b>

\* For the eight semester, one of the following two options has to be chosen:  
**1. Option:** EEE 402 + four TEC 006      **2. Option:** EEE 402 + EEE 404 + WTP 402

	Technical Elective Courses I	Teknik Seçmeli Ders I	T	P	C	ECTS
EEE104	C/C++ Programming	C/C++ Programlama	2	2	3	4
EEE106	Technical and Computer Aided Drawing	Teknik Resim ve Bilgisayar Destekli Çizim	2	2	3	4

	<b>Technical Elective Courses II</b>	<b>Teknik Seçmeli Ders II</b>				
EEE 210	Applied Programming	Uygulamalı Programlama	2	2	3	3
EEE 212	Modern Physics	Modern Fizik	3	0	3	3
EEE 214	Introduction to Neural Networks	Sinir Ağlarına Giriş	2	2	3	3
	<b>Technical Elective Courses III-IV</b>	<b>Teknik Seçmeli Ders III-IV</b>				
EEE 305	Electrical Machines I	Elektrik Makinaları I	2	2	3	5
EEE 306	Electrical Machines II	Elektrik Makinaları II	2	2	3	5
EEE 307	Electromagnetic Waves	Elektromanyetik Dalgalar	3	0	3	5
EEE 308	Introduction to Communication Systems	Haberleşme Sistemlerine Giriş	2	2	3	5
EEE 309	Analog Electronics II	Analog Elektronik II	2	2	3	5
EEE 310	Microcontrollers	Mikrodenetleyiciler	2	2	3	5
EEE 311	Introduction to Machine Learning	Makine Öğrenmesine Giriş	2	2	3	5
EEE 312	Numerical Analysis	Nümerik Analiz	2	2	3	5
EEE 313	Introduction to Embedded Systems	Gömülü Sistemlere Giriş	2	2	3	5
EEE 314	Introduction to Data Mining	Veri Madenciliğine Giriş	2	2	3	5
EEE 316	Projects in Electrical and Electronics Engineering	Elektrik-Elektronik Mühendisliğinde Projeler	2	2	3	5
EEE 317	Engineering Economics	Mühendislik Ekonomisi	2	2	3	5
EEE 318	Fundamentals of Image Processing	Görüntü İşleme Temelleri	2	2	3	5
EEE 320	Introduction to Internet of Things	Nesnelerin İnternetine Giriş	2	2	3	5

	<b>Technical Elective Courses V-VI</b>	<b>Teknik Seçmeli Ders V-VI</b>				
EEE 403	Special Topics in Electrical and Electronics Engineering I	Elektrik-Elektronik Mühendisliğinde Özel Konular I	3	0	3	5
EEE 404	Special Topics in Electrical and Electronics Engineering II	Elektrik-Elektronik Mühendisliğinde Özel Konular II	3	0	3	5
EEE 405	Introduction to Digital Filters	Sayısal Filtrelere Giriş	3	0	3	5
EEE 406	Fundamentals of Biomedical Signal Processing	Biyomedikal Sinyal İşlemenin Temelleri	3	0	3	5
EEE 407	Machine Learning in Bussiness Intelligence	İş Zekasında Makine Öğrenmesi	3	0	3	5
EEE 408	Digital Signal Processing Applications	Sayısal Sinyal İşleme Uygulamaları	3	0	3	5
EEE 409	Intelligent Control Systems	Akıllı Kontrol Sistemleri	3	0	3	5
EEE 410	Introduction to Computer Vision	Bilgisayarla Görüye Giriş	3	0	3	5
EEE 411	Fundamentals of Audio Signal Processing	Ses Sinyal İşlemenin Temelleri	3	0	3	5
EEE 412	Renewable Energy Sources	Yenilenebilir Enerji Kaynakları	3	0	3	5
EEE 413	Programmable Logic Controllers	Programlanabilir Mantık Denetleyiciler	3	0	3	5
EEE 414	Industrial Control	Endüstriyel Kontrol	3	0	3	5
EEE 415	Introduction to Wearable Technologies	Giyilebilir Teknolojilere Giriş	3	0	3	5
EEE 416	Introduction to Robotics	Robotiğe Giriş	3	0	3	5
EEE 417	Introduction to Optimization Techniques	Optimizasyon Tekniklerine Giriş	3	0	3	5
EEE 418	Introduction to Embedded Machine Learning	Gömülü Makine Öğrenmesine Giriş	3	0	3	5
EEE 419	Power Electronics	Güç Elektroniği	3	0	3	5