

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 Ataturk 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
			19	6	22	30

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	Modern Physics	Modern Fizik	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
ASD 002	Non-Area Elective Course II	Alan Dışı Seçmeli Ders II	2	0	2	2
			21	4	23	30

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	Analog Electronics II	Analog Elektronik II	4	2	5	7
EEE 303	Electrical Machines I	Elektrik Makinaları I	3	2	4	6
EEE 305	Signals and Systems	Sinyaller ve Sistemler	2	2	3	5
EEE 307	Electromagnetics Waves	Elektromanyetik Dalgalar	3	0	3	5
TEC 003	Technical Elective Courses III	Teknik Seçmeli Ders III	2	0	2	3
ASD 004	Non-Area Elective Course IV	Alan Dışı Seçmeli Ders IV	2	0	2	2
			16	6	19	30
	Technical Elective Courses III	Teknik Seçmeli Ders III				
EEE 309	Engineering Economics	Mühendislik Ekonomisi	2	0	2	3
EEE 311	Project Planning and Management	Proje Planlama ve Yönetimi	2	0	2	3

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	1	4	3	6
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
ASD 006	Non-Area Elective Course VI	Alan Dışı Seçmeli Ders VI	2	0	2	2
			15	4	17	30

2. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
ATA 102	Principles of Ataturk 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
ASD 001	Non-Area Elective Course I	Alan Dışı Seçmeli Ders I	2	0	2	2
			19	6	22	30
	Technical Elective Courses I	Teknik Seçmeli Ders I				
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

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	Electromagnetics 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	1	2	2	3
OHS 202	Occupational Health and Safety-II	İş Sağlığı ve Güvenliği-II	2	0	2	2
ASD 003	Non-Area Elective Course III	Alan Dışı Seçmeli Ders III	2	0	2	2
			20	6	23	30
	Technical Elective Courses II	Teknik Seçmeli Ders II				
EEE 210	Computer Aided Analysis Programs	Bilgisayar Destekli Analiz Programları	1	2	2	3
EEE 212	Introduction to Data Science with Python	Python ile Veri Bilimine Giriş	1	2	2	3

6. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
EEE 302	Control Theory	Kontrol Teorisi	3	2	4	7
EEE 304	Electrical Machines II	Elektrik Makinaları II	3	2	4	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
ASD 005	Non-Area Elective Course V	Alan Dışı Seçmeli Ders V	2	0	2	2
			14	10	19	30
	Technical Elective Courses IV	Teknik Seçmeli Ders IV				
EEE 306	Digital Signal Processing	Sayısal Sinyal İşleme	2	2	3	5
EEE 308	Introduction to Communication Systems	Haberleşme Sistemlerine Giriş	2	2	3	5
EEE 310	Microcontrollers	Mikrodenetleyiciler	2	2	3	5
EEE 312	Numerical Analysis	Nümerik Analiz	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

8. SEMESTER						
Course Code	Course Name	Course Name in Turkish	T	P	C	ECTS
EEE 402	Project-II	Proje-II *	1	4	3	8
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
ASD 007	Non-Area Elective Course VII	Alan Dışı Seçmeli Ders VII	2	0	2	2
WTP 402	Workplace Training Practice	İş Yerinde Eğitim Uygulaması	0	18	9	17
			15	4	17	30

Technical Elective Courses V		Teknik Seçmeli Ders V					
EEE 403	Special Topics in Electrical and Electronics Engineering I	Elektrik-Elektronik Mühendisliğinde Özel Konular I	3	0	3	5	
EEE 405	Introduction to Digital Filters	Sayısal Filtrelere Giriş	2	2	3	5	
EEE 407	Fundamentals of Image Processing	Görüntü İşleme Temelleri	2	2	3	5	
EEE 409	Introduction to Machine Learning	Makine Öğrenmesine Giriş	2	2	3	5	
EEE 411	Fundamentals of Audio Signal Processing	Ses Sinyal İşlemenin Temelleri	3	0	3	5	
EEE 413	Programmable Logic Controllers	Programlanabilir Mantık Denetleyiciler	3	0	3	5	
EEE 415	Introduction to Embedded Systems	Gömülü Sistemlere Giriş	2	2	3	5	
EEE 417	Introduction to Optimization Techniques	Optimizasyon Tekniklerine Giriş	3	0	3	5	
EEE 419	Wireless Communication	Kablosuz Haberleşme	3	0	3	5	
Non-Area Elective Course		Alan Dışı Seçmeli Ders					
ASD 102	Science History	Bilim Tarihi	2	0	2	2	
ASD 103	Teaching Electrical-Electronics Engineering	Elektrik-Elektronik Mühendisliği Eğitimi	0	4	2	2	
ASD 104	Photography	Fotoğrafçılık	2	0	2	2	
ASD 105	Entrepreneurship	Girişimcilik	2	0	2	2	
ASD 106	Fine Arts	Güzel Sanatlar	2	0	2	2	
ASD 107	History of Motion Picture	Hareketli Görüntünün Tarihi	2	0	2	2	
ASD 108	Latin Dances	Latin Dansları	1	2	2	2	
ASD 109	Engineering Education Techniques	Mühendislik Eğitim Yöntemleri	0	4	2	2	
ASD 110	Music Culture	Müzik Kültürü	2	0	2	2	
ASD 111	Theory of Musical Sound	Müzikal Ses Teorisi	2	0	2	2	
ASD 112	Rhythm Education and Dance	Ritim Eğitimi ve Dans	1	2	2	2	
ASD 113	Social Responsibility Project	Sosyal Sorumluluk Projesi	2	0	2	2	
ASD 114	Turkish Folk Dances	Türk Halk Oyunları	1	2	2	2	
ASD 115	Applied Sport	Uygulamalı Spor	1	2	2	2	

* For the eight semester, one of the following two options has to be chosen:							
1. Option: EEE 402 + four TEC 006 + ASD 007				2. Option: EEE 402 + EEE 404 + WTP 402			
Technical Elective Courses VI		Teknik Seçmeli Ders VI					
EEE 404	Special Topics in Electrical and Electronics Engineering II	Elektrik-Elektronik Mühendisliğinde Özel Konular II	3	0	3	5	
EEE 406	Fundamentals of Biomedical Signal Processing	Biyomedikal Sinyal İşlemenin Temelleri	3	0	3	5	
EEE 408	Fundamentals of Video Processing	Video İşleme Temelleri	3	0	3	5	
EEE 410	Introduction to Computer Vision	Bilgisayarla Görüye Giriş	3	0	3	5	
EEE 412	Introduction to Digital Multimedia	Sayısal Multimedya Giriş	3	0	3	5	
EEE 414	Industrial Control	Endüstriyel Kontrol	3	0	3	5	
EEE 416	Introduction to Robotics	Robotiğe Giriş	3	0	3	5	
EEE 418	Introduction to Internet of Things	Nesnelerin İnternetine Giriş	2	2	3	5	

Total ECTS Credit: 240

Total National Credit: 162

Notes

- (1) Non-Area Elective Courses can be selected from the Non-Area Elective Course Group opened within the department or from another department with the approval of the department board.
- (2) Instead of failed technical elective or non-area elective course, another elective course can be selected from the elective group to which it belongs.
- (3) The student is obliged to do two internships for 20 working days each in the field of Electrical and Electronics Engineering in private or public institutions.
- (4) Students who do not succeed in the Internship I course cannot enroll for Internship II course.
- (5) Students in the 8th and upper semester to be graduated can enroll for both internship courses. Summer school students can only submit an internship report for a single internship course.
- (6) Workplace training practice course is conducted according to the relevant directive.

