

BALIKESİR ÜNİVERSİTESİ
BALIKESİR MESLEK YÜKSEKOKULU
ELEKTRİK VE ENERJİ BÖLÜMÜ
ELEKTRİK PROGRAMI
2026-2027 EĞİTİM-ÖĞRETİM YILI DERS PLANI

1. YARIYIL										2. YARIYIL									
DERS KODU	DERSİN ADI	Kategori	T	U	L	K	AKTS	Yarıyıl İçi		DERS KODU	DERSİN ADI	Kategori	T	U	L	K	AKTS	Yarıyıl İçi	
								Ölçme Faaliyetleri (%40)										Ölçme Faaliyetleri (%40)	
								Yazılı Sınav	Diğer Ölçme Faaliyetleri									Yazılı Sınav	Diğer Ölçme Faaliyetleri
ELE1118	Doğru Akım Devre Analizi	Z	2	2	0	3	3	40%		ELE1217	Elektrik Makinaları-I	Z	2	2	0	3	3	40%	
ELE1110	Elektiriksel ve Elektroniksel Ölçme Tekniği	Z	3	1	0	3.5	4	40%		ELE1218	Alternatif Akım Devre Analizi	Z	2	2	0	3	3	40%	
ELE1119	Elektrik Enerji Santralleri	Z	2	0	0	2	2	40%		ELE1219	Sayısal Elektronik	Z	2	2	0	3	3	40%	
ELE1120	Temel Elektronik	Z	2	2	0	3	3	40%		ELE1216	Çevre Koruma	Z	2	0	0	2	2	20%	Sunum 20%
ELE1121	Mesleki Matematik	Z	1	1	0	1.5	2	40%		KRY1201	Kariyer Planlama	Z	1	0	0	1	2	40%	
ELE1122	Elektrik İç Tesisat Uygulamaları	Z	2	2	0	3	3	20%	Uygulama 20%	ELE1229	Yenilenebilir Enerji Sistemleri	Z	2	0	0	2	2	40%	
ELE1123	Bilgisayar Destekli Tasarım	Z	1	1	0	1.5	2	40%			Seçmeli Ders -1	S	2	1	0	2.5	3		
ELE1124	Elektromekanik Kumanda	Z	2	2	0	3	3	20%	Uygulama 20%		Seçmeli Ders -2	S	2	1	0	2.5	3		
ELE1117	İş Sağlığı ve Güvenliği	Z	2	0	0	2	2	40%			Seçmeli Ders -3	S	2	1	0	2.5	3		
TOPLAM			17	11	0	22.5	24	40%		TOPLAM			17	9	0	21.5	24		

AIT1101	Atatürk İlkeleri ve İnkılap Tarihi-I	Z	2	0	0	2	2	40%		AIT1201	Atatürk İlkeleri ve İnkılap Tarihi-II	Z	2	0	0	2	2	40%	
TDI1101	Türk Dili-I	Z	2	0	0	2	2	40%		TDI1201	Türk Dili-II	Z	2	0	0	2	2	40%	
YDI1101	Yabancı Dil (İngilizce)-I	Z	2	0	0	2	2	40%		YDI1201	Yabancı Dil (İngilizce)-II	Z	2	0	0	2	2	40%	
GENEL TOPLAM			23	11	0	28.5	30			GENEL TOPLAM			23	9	0	27.5	30		

2. YARIYIL SEÇMELİ DERSLERİ									
ELE1220	Elektrik Şebeke Tesisleri	S	2	1	0	2.5	3	40%	
ELE1221	Özel Tesisat Tekniği	S	2	1	0	2.5	3	40%	
ELE1222	Elektrik Enerjisi İletimi Ve Dağıtımı	S	2	1	0	2.5	3	40%	
ELE1223	Fabrika İmalat Teknikleri	S	2	1	0	2.5	3	40%	
ELE1224	Elektrik Tesisat Projelendirme	S	2	1	0	2.5	3	40%	
ELE1225	Fotovoltaik Güç Sistemleri	S	2	1	0	2.5	3	0%	Uygulama 40%
ELE1226	Elektronik Devre Tasarımı	S	2	1	0	2.5	3	20%	Uygulama 20%
ELE1227	Akıllı Ev ve Bina Sistemleri	S	2	1	0	2.5	3	40%	
ELE1228	Tamamlayıcı Elektrik Servis Sistemleri	S	2	1	0	2.5	3	40%	

3. YARIYIL									
DERS KODU	DERSİN ADI	Kategori	T	U	L	K	AKTS	Yarıyıl İçi	
								Ölçme Faaliyetleri (%40)	
								Yazılı Sınav	Diğer Ölçme Faaliyetleri
ELE2139	Elektrik Makinaları-II	Z	2	1	0	2.5	3	40%	
ELE2122	Enerji Yönetimi	Z	2	0	0	2	2	40%	
ELE2123	Girişimcilik	Z	2	0	0	2	2	40%	
ELE2124	Meslek etiği	Z	2	0	0	2	2	40%	
	Seçmeli Ders-1	S	2	2	0	3	5		
	Seçmeli Ders-2	S	2	2	0	3	5		
	Seçmeli Ders-3	S	2	2	0	3	4		
	Seçmeli Ders-4	S	2	1	0	2.5	3		
	Seçmeli Ders-5	S	2	0	0	2	2		
	Seçmeli Ders-6	S	1	1	0	1.5	2		
GENEL TOPLAM			19	9	0	23.5	30		

4. YARIYIL									
DERS KODU	DERSİN ADI	Kategori	T	U	L	K	AKTS	Yarıyıl İçi	
								Ölçme Faaliyetleri (%40)	
								Yazılı Sınav	Diğer Ölçme Faaliyetleri
ELE2226	İşletmede Mesleki Eğitim	Z	5	22	0	16	30	40%	
GENEL TOPLAM			5	22	0	16	30		

3. YARIYIL SEÇMELİ DERSLERİ									
ELE2125	Programlanabilir Denetleyiciler	S	2	2	0	3	5	40%	
ELE2116	Pano Tasarımı ve Montajı	S	2	2	0	3	5	40%	
ELE2126	Elektrik Bakım Ve Arıza Bulma	S	2	2	0	3	5	40%	
ELE2127	Rüzgar Enerji Sistemleri	S	2	2	0	3	4	40%	
ELE2128	İleri Sayısal Uygulamaları	S	2	2	0	3	4	20%	Uygulama 20%
ELE2129	Sensörler ve Dönüştürücüler	S	2	2	0	3	4	40%	
ELE2130	Ev Cihazları	S	2	1	0	2.5	3	40%	
ELE2131	Yüksek Gerilim Tekniği	S	2	1	0	2.5	3	40%	
ELE2132	Sözleşme Keşif ve Planlama	S	2	1	0	2.5	3	20%	Ödev 20%
ELE2133	Güç Elektroniği	S	2	1	0	2.5	3	40%	
ELE2134	Mesleki Yabancı Dil	S	2	0	0	2	2	40%	
ELE2135	İletişim Yönetim ve Denetleme	S	2	0	0	2	2	40%	
ELE2136	Kalite Güvencesi ve Standartlar	S	2	0	0	2	2	40%	
ELE2137	Sistem Analizi ve Tasarımı	S	1	1	0	1.5	2	40%	
ELE2138	Etüt ve Proje Teknikleri	S	1	1	0	1.5	2	40%	

KATEGORİ :

Z Zorunlu
S Seçmeli

BALIKESIR UNIVERSITY
BALIKESIR VOCATIONAL SCHOOL
DEPARTMENT OF ELECTRICITY AND ENERGY
ELECTRICITY PROGRAM
2026-2027 ACADEMIC YEAR COURSE PLAN

1st SEMESTER										2nd SEMESTER									
COURSE CODE	COURSE	Category	T	P	L	C	ECTS	Mid-Term Assessment Activities (40%)		COURSE CODE	COURSE	Category	T	P	L	C	ECTS	Mid-Term Assessment Activities (40%)	
								Written Exam	Other Measurement Activities									Written Exam	Other Measurement Activities
ELE1118	Direct Current Circuit Analysis	C	2	2	0	3	3	40%		ELE1217	Electrical Machines-I	C	2	2	0	3	3	40%	
ELE1110	Electrical and Electronic Measurement Techniques	C	3	1	0	3.5	4	40%		ELE1218	Alternating Current Circuit Analysis	C	2	2	0	3	3	40%	
ELE1119	Electric Energy Plants	C	2	0	0	2	2	40%		ELE1219	Digital Electronics	C	2	2	0	3	3	40%	
ELE1120	Basic Electronics	C	2	2	0	3	3	40%		ELE1216	Environmental Protection	C	2	0	0	2	2	20%	Presentation 20%
ELE1121	Vocational Mathematics	C	1	1	0	1.5	2	40%		KRY1201	Career Planning	C	1	0	0	1	2	40%	
ELE1122	Electrical Installation Applications	C	2	2	0	3	3	20%	Practice 20%	ELE1229	Renewable Energy Systems	C	2	0	0	2	2	40%	
ELE1123	Computer-Aided Design	C	1	1	0	1.5	2	40%			Elective Courses-1	E	2	1	0	2.5	3		
ELE1124	Electromechanical Control	C	2	2	0	3	3	20%	Practice 20%		Elective Courses-2	E	2	1	0	2.5	3		
ELE1117	Occupational Health and Safety	C	2	0	0	2	2	40%			Elective Courses-3	E	2	1	0	2.5	3		
TOTAL			17	11	0	22.5	24	40%		TOTAL			17	9	0	21.5	24		
AIT1101	Ataturk's Principals and History of Revolution-I	C	2	0	0	2	2	40%		AIT1201	Ataturk's Principals and History of Revolution -II	C	2	0	0	2	2	40%	
TDI1101	Turkish Language-I	C	2	0	0	2	2	40%		TDI1201	Turkish Language-II	C	2	0	0	2	2	40%	
YDI1101	English-I	C	2	0	0	2	2	40%		YDI1201	English-II	C	2	0	0	2	2	40%	
TOTAL CREDITS			23	11	0	28.5	30			TOTAL CREDITS			23	9	0	27.5	30		

2nd SEMESTER ELECTIVE COURSES									
ELE1220	Electrical Power Network Systems	E	2	1	0	2.5	3	40%	
ELE1221	Special Installation Technique	E	2	1	0	2.5	3	40%	
ELE1222	Electricity Transmission and Distribution	E	2	1	0	2.5	3	40%	
ELE1223	Manufacturing Techniques	E	2	1	0	2.5	3	40%	
ELE1224	Electrical Installation Design	E	2	1	0	2.5	3	40%	
ELE1225	Photovoltaic Power Systems	E	2	1	0	2.5	3	0%	Practice 40%
ELE1226	Electronic Circuit Design	E	2	1	0	2.5	3	20%	Practice 20%
ELE1227	Smart Home and Building Systems	E	2	1	0	2.5	3	40%	
ELE1228	Auxiliary Electrical Service Systems	E	2	1	0	2.5	3	40%	
4th SEMESTER									
COURSE CODE	COURSE	Category	T	P	L	C	ECTS	Mid-Term Assessment Activities (40%)	
								Written Exam	Other Measurement Activities
ELE2226	Vocational Training in Business	C	5	22	0	16	30	40%	
TOTAL CREDITS			5	22	0	16	30		

3rd SEMESTER									
COURSE CODE	COURSE	Category	T	P	L	C	ECTS	Mid-Term Assessment Activities (40%)	
								Written Exam	Other Measurement Activities
ELE2139	Electrical Machines-II	C	2	1	0	2.5	3	40%	
ELE2122	Energy Management	C	2	0	0	2	2	40%	
ELE2123	Entrepreneurship	C	2	0	0	2	2	40%	
ELE2124	Professional Ethics	C	2	0	0	2	2	40%	
	Elective Courses-1	E	2	2	0	3	5		
	Elective Courses-2	E	2	2	0	3	5		
	Elective Courses-3	E	2	2	0	3	4		
	Elective Courses-4	E	2	1	0	2.5	3		
	Elective Courses-5	E	2	0	0	2	2		
	Elective Courses-6	E	1	1	0	1.5	2		
TOTAL CREDITS			19	9	0	23.5	30		

3rd SEMESTER ELECTIVE COURSES									
ELE2125	Programmable Controllers (PLC)	E	2	2	0	3	5	40%	
ELE2116	Electrical Panel Design and Installation	E	2	2	0	3	5	40%	
ELE2126	Electrical Maintenance and Fault Finding	E	2	2	0	3	5	40%	
ELE2127	Wind Energy Systems	E	2	2	0	3	4	40%	
ELE2128	Advanced Digital Applications	E	2	2	0	3	4	20%	Practice 20%
ELE2129	Sensors and Transducers	E	2	2	0	3	4	40%	
ELE2130	Household Appliances	E	2	1	0	2.5	3	40%	
ELE2131	High Voltage Technique	E	2	1	0	2.5	3	40%	
ELE2132	Contracting, Cost Estimation and Planning	E	2	1	0	2.5	3	20%	Homework 20%
ELE2133	Power Electronics	E	2	1	0	2.5	3	40%	
ELE2134	Vocational Foreign Language	E	2	0	0	2	2	40%	
ELE2135	Communication Management and Supervision	E	2	0	0	2	2	40%	
ELE2136	Quality Assurance and Standards	E	2	0	0	2	2	40%	
ELE2137	System Analysis and Design	E	1	1	0	1.5	2	40%	
ELE2138	Project Planning and Survey Techniques	E	1	1	0	1.5	2	40%	

CATEGORY:

C Compulsory
E Elective