

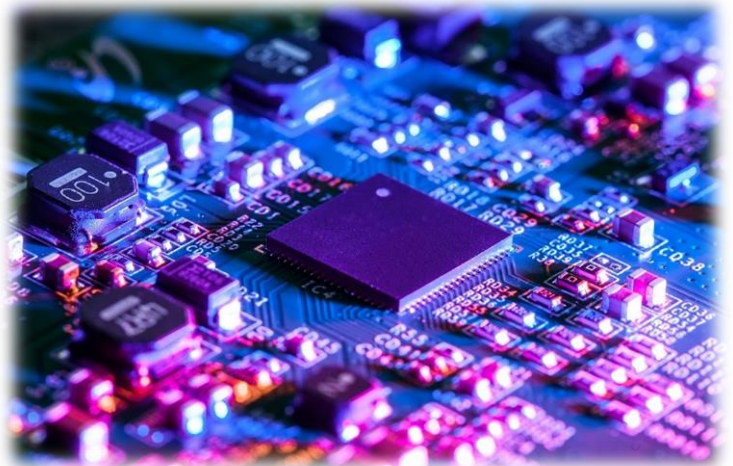
2024-2025 AKADEMİK
YILI / Academic Year

EĞİTİMDE KALİTE GÜVENCESİ GÜZ DÖNEMİ RAPORU

*QUALITY ASSURANCE IN
EDUCATION FALL SEMESTER
REPORT*

MÜHENDİSLİK FAKÜLTESİ
FACULTY OF ENGINEERING

**ELEKTRİK VE ELEKTRONİK
MÜHENDİSLİĞİ LİSANS PROGRAMI (EE)**
*ELECTRICAL AND ELECTRONICS
ENGINEERING UNDERGRADUATE PROGRAM
(EE)*



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MÜHENDİSLİK FAKÜLTESİ / FACULTY OF ENGINEERING
ELEKTRİK VE ELEKTRONİK MÜHENDİSLİĞİ LİSANS
PROGRAMI - EE / ELECTRICAL AND ELECTRONICS
ENGINEERING UNDERGRADUATE PROGRAM - EE

1. LİSANS PROGRAMI / UNDERGRADUATE PROGRAM

1.1. MÜFREDAT / CURRICULUM

Birinci Yıl / First Year					
Güz Dönemi / Fall Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
CS 115	Python ile Programlamaya Giriş / <i>Introduction to Programming in Python</i>	3	4	4	6,5
ENG 101	İngilizce ve Kompozisyon I / <i>English and Composition I</i>	5	0	3	5
GE 100	Üniversite Hayatına Giriş / <i>Orientation</i>	0	0	1	2
MATH 101	Matematik I / <i>Calculus I</i>	4	0	4	6,5
PHYS 101	Genel Fizik I / <i>General Physics I</i>	3	3	4	6,5
TURK 101	Türkçe I / <i>Turkish I</i>	0	0	2	3,5
Bahar Dönemi / Spring Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
EEE 102	Sayısal Devre Tasarımı / <i>Introduction to Digital Circuit Design</i>	4	4	4	6,5
ENG 102	İngilizce ve Kompozisyon II / <i>English and Composition II</i>	5	0	3	5
MATH 102	Matematik II / <i>Calculus II</i>	4	0	4	6,5
PHYS 102	Genel Fizik II / <i>General Physics II</i>	3	3	4	6,5
TURK 102	Türkçe II / <i>Turkish II</i>	0	0	2	3,5

İkinci Yıl / Second Year					
Güz Dönemi / Fall Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
EEE 211	Analog Elektronik / Analog Electronics	3	4	4	6,5
GE 250	Üniversite Etkinlik Programı I / Collegiate Activities Program I	0	0	0	1
HIST 200	Türkiye Tarihi / History of Turkey	3	0	4	6,5
HUM 111	Kültürler, Medeniyetler ve Düşünceler I / Collegiate Activities Program I	3	0	3	5
MATH 241	Mühendislik Matematiği I / Engineering Mathematics I	4	0	4	6,5
	Matematik Seçmeli Dersi / Mathematics Elective			3	
Bahar Dönemi / Spring Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
EE 202	Devre Teorisi / Circuit Theory	3	4	4	6,5
EEE 212	Mikroişlemciler / Microprocessors	3	4	4	6,5
ENG 401	Teknik Rapor Yazma ve Sunum / Technical Report Writing and Presentation	3	0	3	5
GE 251	Üniversite Etkinlik Programı II / Collegiate Activities Program II	0	0	1	2
HUM 112	Kültürler, Medeniyetler ve Düşünceler II / Cultures Civilizations and Ideas II	3	0	3	5
MATH 242	Mühendislik Matematiği II / Engineering Mathematics II	4	0	4	6,5

Üçüncü Yıl / Third Year					
Güz Dönemi / Fall Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
EEE 299	Yaz Stajı I / Summer Training I	0	0	0	7
EEE 313	Elektronik Devre Tasarımı / Electronic Circuit Design	3	4	4	6,5
EEE 321	Sinyaller ve Sistemler / Signals and Systems	3	2	4	6,5
MATH 255	Olasılık ve İstatistik / Probability and Statistics	4	0	4	6,5
	Genel Seçmeli Ders / General Elective			3	
	Temel Sosyal Bilimler Seçmeli Dersi / Social Science Core Elective			3	
Bahar Dönemi / Spring Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
EE 342	Geri Beslemeli Kontrol Sistemleri / Feedback Control Systems	3	0	3	5
EEE 351	Mühendislik Elektromanyetiği / Engineering Electromagnetics	3	0	3	5
	Temel Sanat Seçmeli Dersi / Arts Core Elective			3	
	Temel Mühendislik Seçmeli Dersi / Basic Engineering Elective			3	
	Elektrik ve Elektronik Mühendisliği Seçmeli Dersi / EEE Elective			3	

Dördüncü Yıl / Fourth Year					
Güz Dönemi / Fall Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
EEE 399	Yaz Stajı II / Summer Training II	0	0	0	7
GE 301	Bilim, Teknoloji ve Toplum / Science Technology and Society	2	0	2	3,5
	Elektrik ve Elektronik Mühendisliği Seçmeli Dersi / EEE Elective			3	
	Elektrik ve Elektronik Mühendisliği Sınırlı Seçmeli Dersi / EEE Restricted Elective			3	
	Matematik Seçmeli Dersi / Mathematics Elective			3	
	Proje Seçmeli Dersi I / Project Elective I			3	
Bahar Dönemi / Spring Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
GE 304	Teknoloji, Toplum ve Mesleki Gelişim Semineri / Technology Society and Professional Development Seminar	2	0	1	2
	Elektrik ve Elektronik Mühendisliği Genişletilmiş Seçmeli Dersi (2) / EEE Expanded Elective (2)			6	
	Elektrik ve Elektronik Mühendisliği Sınırlı Seçmeli Dersi / EEE Restricted Elective			3	
	Genel Seçmeli Ders / General Elective			3	
	Proje Seçmeli Dersi II / Project Elective II			3	

2. PROGRAM ÇIKTILARI / PROGRAM OUTCOMES

2.1. PROGRAM ÇIKTILARININ LİSTESİ / LIST OF PROGRAM OUTCOMES

- Mühendislik, fen bilimleri ve matematik ilkelerini uygulayarak karmaşık mühendislik problemlerini tanımlama, formüle etme ve çözme becerisine sahiptir. / An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- Kamu sağlığı, güvenliği ve refahının yanı sıra küresel, kültürel, sosyal, çevresel ve ekonomik faktörleri de dikkate alarak belirlenen ihtiyaçları karşılayacak çözümler üretmek için mühendislik tasarımını uygulama becerisine sahiptir. / An ability to identify engineering design to produce solutions that meet specified needs with consideration of public health, safety and welfare, as well as global, cultural, social, environmental, and economic factors.
- Çeşitli kitlelerle etkili bir şekilde iletişim kurabilme becerisine sahiptir. / An ability to communicate effectively with a range of audiences.
- Mühendislik pozisyonlarında etik ve profesyonel sorumlulukları tanıma ve mühendislik çözümlerinin küresel, ekonomik, çevresel ve toplumsal bağlamlardaki etkisini dikkate alması gereken bilinçli kararlar verme becerisine sahiptir. / An ability to recognize ethical and professional responsibilities in engineering situations and make informed

judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

- e.** Tüm üyeleri ile birlikte, liderlik sağlayan, işbirlikçi ve kapsayıcı bir ortam yaratan, hedefler belirleyen, görevleri planlayan ve hedeflere ulaşan bir ekipte etkili bir şekilde çalışabilme becerisine sahiptir. / *An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.*
- f.** Uygun deneyler geliştirme ve yürütme, verileri analiz etme ve yorumlama ve tüm bunlardan sonuç çıkarmak için mühendislik yargısını kullanma becerisine sahiptir. / *An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions.*
- g.** Uygun öğrenme stratejilerini kullanarak gerektiğinde yeni bilgi edinme ve uygulama becerisine sahiptir. / *An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.*
- h.** Öğrenciler, derslerin yanı sıra çeşitli ve yaratıcı, sanatsal, kültürel, sportif ve entelektüel faaliyetlere katılarak kampüs hayatından daha fazla faydalanırlar. / *Take advantage of the campus life where students are engaged in diversity, creativity and commitment outside coursework through artistic, cultural, sportive and intellectual activities.*

2.2. PROGRAM ÇIKTILARI - DERSLER MATRİSİ / PROGRAM OUTCOMES - COURSES TABLE

Dersler / Courses	Program Çıktıları / Program Outcomes								Dersler / Courses	Program Çıktıları / Program Outcomes							
	a	b	c	d	e	f	g	h		a	b	c	d	e	f	g	h
CS 115	✓								GE 251			✓				✓	✓
EEE 102	✓		✓	✓		✓	✓		GE 301				✓	✓		✓	
EEE 202	✓					✓			GE 304		✓		✓			✓	
EEE 211	✓	✓	✓	✓		✓			HIST 200			✓		✓		✓	
EEE 212	✓					✓			HUM 111			✓				✓	
EEE 299	✓	✓	✓	✓	✓	✓	✓		HUM 112			✓				✓	
EEE 313	✓	✓				✓			MATH 101	✓		✓		✓			
EEE 321	✓								MATH 102	✓		✓		✓			
EEE 342	✓								MATH 241	✓							
EEE 351	✓	✓							MATH 242	✓							
EEE 399	✓	✓	✓	✓	✓	✓	✓		MATH 255	✓					✓		
ENG 101			✓						PHYS 101	✓	✓			✓		✓	
ENG 102			✓						PHYS 102	✓	✓			✓		✓	
ENG 401			✓						TURK 101			✓				✓	
GE 100			✓						TURK 102			✓				✓	
GE 250			✓														

Tablo.2.2. Elektrik ve Elektronik Mühendisliği Lisans Programı - Program Çıktıları ve Dersler Tablosu / *Table.2.2. Electrical and Electronics Engineering Undergraduate Program - Program Outcomes and Courses Table*

3. PERFORMANS ÖLÇÜMLERİNDE KULLANILACAK METRİKLER / METRICS TO BE USED IN PERFORMANCE MEASUREMENT

3.1. PERFORMANS ÖLÇÜMLERİNDE KULLANILACAK DEĞERLENDİRME METOTLARI / EVALUATION METHODS USED IN PERFORMANCE MEASUREMENTS

Course Code	Program Outputs	Lab exam	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
CS 115	a	20	40	40	100	M1	40	75	
Course Code	Program Outputs	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
EEE 102	a	100	100	M1	80	75			
	Program Outputs	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	c	100	100	M1	80	75			
	Program Outputs	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	d	100	100	M1	80	75			
	Program Outputs	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	f	100	100	M1	80	75			
	Program Outputs	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
g	100	100	M1	80	75				

Course Code	Program Outputs	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
EEE 202	a	29	29	42	100	M1	30	75					
	Program Outputs	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	f	29	29	42	100	M1	30	75					
Course Code	Program Outputs	Quiz	Quiz	Quiz	Quiz	Quiz	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
EEE 211	a	5	5	5	5	5	35	40	100	M1	45	75	
	Program Outputs	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Total Contribution	
	f	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	41,5	100
		Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)									
M1	70	75											
Course Code	Program Outputs	Project	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
EEE 212	f	34	11	11	11	11	11	11	100	M1	60	75	
Course Code	Program Outputs	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
EEE 313	a	45	55	100	M1	25	75						
Course Code	Program Outputs	Midterm	Midterm	Final	Lab work	Homework	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
EEE 321	a	20	20	32	18	5	5	100	M1	30	75		

Course Code	Program Outputs	Midterm:Essay /written	Final:Essay/ written	Lab work	Lab work	Lab work	Quiz	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
EEE 342	a	30	35	5	5	5	10	10	100	M1	45	75	
Course Code	Program Outputs	Midterm:Essay /written	Final:Essay/ written	Quiz	Quiz	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
EEE 351	a	32,2	48,3	6,5	6,5	6,5	100	M1	30	75			
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)							
	b	100	100	M1	60	75							
Course Code	Program Outputs	Academic Essay 1	Essay	Oral Presentation	Student Led Discussion	Academic Summary and Critical Response Task	Self-progress Reflection Task	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
ENG 101	c	20	25	8	7	10	5	25	100	M1	70	75	
	Program Outputs	Academic Essay 1	Essay	Oral Presentation	Student Led Discussion	Academic Summary and Critical Response Task	Self-progress Reflection Task	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	20	25	8	7	10	5	25	100	M1	70	75	
Course Code	Program Outputs	Library Skills Task	Academic Essay	Oral Presentation	Research Paper Outline	Research essay	Interviews	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
ENG 102	c	5	20	20	10	30	15	100	M1	70	70		
	Program Outputs	Library Skills Task	Academic Essay	Oral Presentation	Research Paper Outline	Research essay	Interviews	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	g	5	20	20	10	30	15	100	M1	70	70		

Course Code	Program Outputs	Presentations	Written Project Proposal	Written Final Report	Interviews	Interviews	Presentations	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
ENG 401	c	15	20	35	5	5	20	100	M1	70	80
	Program Outputs	Presentations	Written Project Proposal	Written Final Report	Interviews	Interviews	Presentations	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	15	20	35	5	5	20	100	M1	70	80
Course Code	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
GE 100	c	100	100	M1	12	80					
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	g	100	100	M1	12	80					
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	h	100	100	M1	12	80					
Course Code	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
GE 251	c	100	100	M1	70	70					
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	g	100	100	M1	70	70					
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	h	100	100	M1	70	70					

Course Code	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
GE 301	d	25	30	30	15	100	M1	45	60
	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	25	30	30	15	100	M1	45	60
	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	25	30	30	15	100	M1	45	60
Course Code	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
HIST 200	c	10	60	30	100	M1	70	75	
	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	e	10	60	30	100	M1	70	75	
	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	10	60	30	100	M1	70	75	
Course Code	Program Outputs	Quizzes	Course Project	In-class participation	Final Examination	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
HUM 111	c	30	30	10	30	100	M1	60	75
	Program Outputs	Quizzes	Course Project	In-class participation	Final Examination	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	30	30	10	30	100	M1	60	75
Course Code	Program Outputs	Quizzes	In-class participation	Final:Essay/ written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
HUM 112	c	30	10	30	30	100	M1	60	75
	Program Outputs	Quizzes	In-class participation	Final:Essay/ written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	30	10	30	30	100	M1	60	75

Course Code	Program Outputs	Midterm	Midterm	Final	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
MATH 101	a	25	25	30	10	10	100	M1	40	50		
	Program Outputs	Midterm	Midterm	Final	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	c	25	25	30	10	10	100	M1	40	50		
	Program Outputs	Midterm	Midterm	Final	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	e	25	25	30	10	10	100	M1	40	50		
Course Code	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
MATH 102	a	30	30	40	100	M1	40	50				
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	c	30	30	40	100	M1	40	50				
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	e	30	30	40	100	M1	40	50				
Course Code	Program Outputs	Midterm:Essay /written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 241	a	35	35	6	6	6	6	6	100	M1	25	75
Course Code	Program Outputs	Midterm:Essay /written	Quiz	Homework	Final:Essay/ written	MATLAB	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
MATH 242	a	30	30	5	30	5	100	M1	30	75		
Course Code	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final:Essay/ written	Homework	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
MATH 255	a	25	25	40	5	5	100	M1	35	75		
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final:Essay /written	Homework	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	f	25	25	40	5	5	100	M1	35	75		

Course Code	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
PHYS 101	a	15	20	10	10	25	20	100	M1	50	50
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	b	15	20	10	10	25	20	100	M1	50	50
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	15	20	10	10	25	20	100	M1	50	50
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	15	20	10	10	25	20	100	M1	50	50
Course Code	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
PHYS 102	a	15	20	10	10	25	20	100	M1	50	50
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	b	15	20	10	10	25	20	100	M1	50	50
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	15	20	10	10	25	20	100	M1	50	50
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	15	20	10	10	25	20	100	M1	50	50
Course Code	Program Outputs	Blog	Final Exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
TURK 101	c	70	30	100	M1	70	60				
	Program Outputs	Blog	Final Exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	g	70	30	100	M1	70	60				

Course Code	Program Outputs	Blog	Final Exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
TURK 102	c	70	30	100	M1	70	60
	Program Outputs	Blog	Final Exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	70	30	100	M1	70	60

- **Ölçümlerde Kullanılan Metotlarla İlgili Açıklamalar / Explanations About the Methods Used in Measurements**

Bütün metotlar için sadece dersi geçen öğrencilerin notları kullanılacaktır. / For all methods, only the grades of students who pass the course will be used.

- G = Bölüm tarafından belirlenmiş olan başarılı sayılabilecek minimum not / G = Minimum grade that can be considered successful as determined by the department
- T = Program çıktısı başarısı için eşik değer / T = Threshold value for program output success
- M1: Öğrencilerin %T'sinin not ortalamasının G veya üzerinde olması / M1: T% of students have a grade point average of G or above
- M2: Öğrencilerin %T'sinin bölüm ortalaması üzerinde not almış olması / M2: %T of students have received grades above the department average
- M3: Öğrencilerin not ortalamasının G veya üzerinde olması / M3: Students' grade point average should be G or above
- M4: Öğrencilerin %T'sinin not ortalamasının dersi alan tüm öğrencilerin ortalamasına eşit veya daha yüksek olması / M4: The GPA of %T of students is equal to or higher than the average of all students taking the course

3.2. PERFORMANS ÖLÇÜMLERİNDE KULLANILAN METOTLAR VE PERFORMANS SONUÇ DETAYLARI / METHODS USED IN PERFORMANCE MEASUREMENTS AND PERFORMANCE RESULT DETAILS

Program Çıktısı/ Program Outcome	Yeterlilik Hesaplama Yöntemi/ Method	(Ortalama) Yeterlilik Notu/ Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı/ Number of Students (All)	Toplam Dept. Öğrenci Sayısı/ Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
CS 115 - Python ile Programlamaya Giriş / CS 115 - Introduction to Programming in Python													
a	M1	40	75	378	138	70.37	75.02	366	137	96.83	99.28	Yeterli ✓ / Sufficient ✓	99.28
EEE 102 - Sayısal Mantık Tasarımı / EEE 102 - Digital Logic Design													
a	M1	80	75	83	83	97.3	97.3	83	83	100	100	Yeterli ✓ / Sufficient ✓	100
c	M1	80	75	83	83	97.3	97.3	83	83	100	100	Yeterli ✓ / Sufficient ✓	100
d	M1	80	75	83	83	97.3	97.3	83	83	100	100	Yeterli ✓ / Sufficient ✓	100
f	M1	80	75	83	83	97.3	97.3	83	83	100	100	Yeterli ✓ / Sufficient ✓	100
g	M1	80	75	83	83	97.3	97.3	83	83	100	100	Yeterli ✓ / Sufficient ✓	100
EEE 202 - Devre Teorisi / EEE 202 - Circuit Theory													
a	M1	30	75	83	83	59.9	59.9	82	82	98.8	98.8	Yeterli ✓ / Sufficient ✓	98.8
f	M1	30	75	83	83	59.9	59.9	82	82	98.8	98.8	Yeterli ✓ / Sufficient ✓	98.8
EEE 211 - Analog Elektronik / EEE 211 - Analog Electronics													
a	M1	45	75	150	148	53.05	53.03	89	88	59.33	59.46	İyileştirmeye Açık! / Insufficient!	59.46
f	M1	70	75	150	148	98.27	98.27	150	148	100	100	Yeterli ✓ / Sufficient ✓	100
EEE 212 - Mikrodenetleyiciler ve Gömülü Sistemler / EEE 212 - Microcontrollers and Embedded Systems													
f	M1	60	75	69	69	90.64	90.64	69	69	100	100	Yeterli ✓ / Sufficient ✓	100

Program Çıktısı/ Program Outcome	Yeterlilik Hesaplama Yöntemi/ Method	(Ortalama) Yeterlilik Notu/ Minimum Successful Grade	Yeterlilik Eşiği (%) / Treshold Percentage (%)	Toplam Öğrenci Sayısı/ Number of Students (All)	Toplam Dept. Öğrenci Sayısı/ Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
EEE 313 - Elektronik Devre Tasarımı / EEE 313 - Electronic Circuit Design													
a	M1	25	75	88	88	69.03	69.03	88	88	100	100	Yeterli ✓ / Sufficient ✓	100
EEE 321 - Sinyaller ve Sistemler / EEE 321 - Signals and Systems													
a	M1	30	75	87	87	66.33	66.33	87	87	100	100	Yeterli ✓ / Sufficient ✓	100
EEE 342 - Geri Beslemeli Kontrol Sistemleri / EEE 342 - Feedback Control Systems													
a	M1	45	75	27	26	59.61	59.39	22	21	81.48	80.77	Yeterli ✓ / Sufficient ✓	80.77
EEE 351 - Mühendislik Elektromanyetiği / EEE 351 - Engineering Electromagnetics													
a	M1	30	75	74	74	53.5	53.5	70	70	94.59	94.59	Yeterli ✓ / Sufficient ✓	94.59
b	M1	60	75	74	74	79.4	79.4	70	70	94.59	94.59	Yeterli ✓ / Sufficient ✓	94.59
ENG 101 - İngilizce ve Kompozisyon I / ENG 101 - English and Composition I													
c	M1	70	75	1702	136	82.4	85.14	1593	133	93.6	97.79	Yeterli ✓ / Sufficient ✓	97.79
g	M1	70	75	1702	136	82.4	85.14	1593	133	93.6	97.79	Yeterli ✓ / Sufficient ✓	97.79
ENG 102 - İngilizce ve Kompozisyon II / ENG 102 - English and Composition II													
c	M1	70	70	616	28	86.42	90.27	603	28	97.89	100	Yeterli ✓ / Sufficient ✓	100
g	M1	70	70	616	28	86.42	90.27	603	28	97.89	100	Yeterli ✓ / Sufficient ✓	100
ENG 401 - Teknik Rapor Yazma ve Sunum / ENG 401 - Technical Report Writing and Presentation													
c	M1	70	80	275	57	88.86	88.9	270	55	98.18	96.49	Yeterli ✓ / Sufficient ✓	96.49
g	M1	70	80	275	57	88.86	88.9	270	55	98.18	96.49	Yeterli ✓ / Sufficient ✓	96.49

Program Çıktısı/ Program Outcome	Yeterlilik Hesaplama Yöntemi/ Method	(Ortalama) Yeterlilik Notu/ Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı/ Number of Students (All)	Toplam Dept. Öğrenci Sayısı/ Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
GE 100 - Üniversite Hayatına Giriş / GE 100 - Orientation													
c	M1	12	80	1678	135	97.32	99	1678	135	100	100	Yeterli ✓ / Sufficient ✓	100
g	M1	12	80	1678	135	97.32	99	1678	135	100	100	Yeterli ✓ / Sufficient ✓	100
h	M1	12	80	1678	135	97.32	99	1678	135	100	100	Yeterli ✓ / Sufficient ✓	100
GE 251 - Üniversite Etkinlik Programı II / GE 251 - Collegiate Activities Program II													
c	M1	70	70	974	95	92.76	94.95	898	91	92.2	95.79	Yeterli ✓ / Sufficient ✓	95.79
g	M1	70	70	974	95	92.76	94.95	898	91	92.2	95.79	Yeterli ✓ / Sufficient ✓	95.79
h	M1	70	70	974	95	92.76	94.95	898	91	92.2	95.79	Yeterli ✓ / Sufficient ✓	95.79
GE 301 - Bilim, Teknoloji ve Toplum / GE 301 - Science Technology and Society													
d	M1	45	60	304	93	83.13	84.1	304	93	100	100	Yeterli ✓ / Sufficient ✓	100
e	M1	45	60	304	93	83.13	84.1	304	93	100	100	Yeterli ✓ / Sufficient ✓	100
g	M1	45	60	304	93	83.13	84.1	304	93	100	100	Yeterli ✓ / Sufficient ✓	100
HIST 200 - Türkiye Tarihi / HIST 200 - History of Turkey													
c	M1	70	75	1036	133	93.59	94.71	1026	133	99.03	100	Yeterli ✓ / Sufficient ✓	100
e	M1	70	75	1036	133	93.59	94.71	1026	133	99.03	100	Yeterli ✓ / Sufficient ✓	100
g	M1	70	75	1036	133	93.59	94.71	1026	133	99.03	100	Yeterli ✓ / Sufficient ✓	100
HUM 111 - Kültürler, Medeniyetler ve Düşünceler I / HUM 111 - Cultures Civilizations and Ideas I													
c	M1	60	75	1139	155	84.61	88.13	1135	155	99.65	100	Yeterli ✓ / Sufficient ✓	100
g	M1	60	75	1139	155	84.61	88.13	1135	155	99.65	100	Yeterli ✓ / Sufficient ✓	100

Program Çıktısı/ Program Outcome	Yeterlilik Hesaplama Yöntemi/ Method	(Ortalama) Yeterlilik Notu/ Minimum Successful Grade	Yeterlilik Eşiği (%) / Treshold Percentage (%)	Toplam Öğrenci Sayısı/ Number of Students (All)	Toplam Dept. Öğrenci Sayısı/ Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
HUM 112 - Kùltürler, Medeniyetler ve Düşünceler II / HUM 112 - Cultures Civilizations and Ideas II													
c	M1	60	75	287	21	84.87	84.38	285	21	99.3	100	Yeterli ✓ / Sufficient ✓	100
g	M1	60	75	287	21	84.87	84.38	285	21	99.3	100	Yeterli ✓ / Sufficient ✓	100
MATH 101 - Matematik I / MATH 101 - Calculus I													
a	M1	40	50	682	138	63.69	70.36	607	134	89	97.1	Yeterli ✓ / Sufficient ✓	97.1
c	M1	40	50	682	138	63.69	70.36	607	134	89	97.1	Yeterli ✓ / Sufficient ✓	97.1
e	M1	40	50	682	138	63.69	70.36	607	134	89	97.1	Yeterli ✓ / Sufficient ✓	97.1
MATH 102 - Matematik II / MATH 102 - Calculus II													
a	M1	40	50	258	51	53.52	56.14	181	40	70.16	78.43	Yeterli ✓ / Sufficient ✓	78.43
c	M1	40	50	258	51	53.52	56.14	181	40	70.16	78.43	Yeterli ✓ / Sufficient ✓	78.43
e	M1	40	50	258	51	53.52	56.14	181	40	70.16	78.43	Yeterli ✓ / Sufficient ✓	78.43
MATH 241 - Mühendislik Matematiği I / MATH 241 - Engineering Mathematics I													
a	M1	25	75	153	131	57.13	57.19	153	131	100	100	Yeterli ✓ / Sufficient ✓	100
MATH 242 - Mühendislik Matematiği II / MATH 242 - Engineering Mathematics II													
a	M1	30	75	81	64	58.3	58.45	78	62	96.3	96.88	Yeterli ✓ / Sufficient ✓	96.88
MATH 255 - Olasılık ve İstatistik / MATH 255 - Probability and Statistics													
a	M1	35	75	186	176	52.49	52.82	161	154	86.56	87.5	Yeterli ✓ / Sufficient ✓	87.5
f	M1	35	75	186	176	52.49	52.82	161	154	86.56	87.5	Yeterli ✓ / Sufficient ✓	87.5

Program Çıktısı/ Program Outcome	Yeterlilik Hesaplama Yöntemi/ Method	(Ortalama) Yeterlilik Notu/ Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı/ Number of Students (All)	Toplam Dept. Öğrenci Sayısı/ Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
PHYS 101 - Genel Fizik I / PHYS 101 - General Physics I													
a	M1	50	50	620	134	65.09	69.87	568	126	91.61	94.03	Yeterli ✓ / Sufficient ✓	94.03
b	M1	50	50	620	134	65.09	69.87	568	126	91.61	94.03	Yeterli ✓ / Sufficient ✓	94.03
e	M1	50	50	620	134	65.09	69.87	568	126	91.61	94.03	Yeterli ✓ / Sufficient ✓	94.03
g	M1	50	50	620	134	65.09	69.87	568	126	91.61	94.03	Yeterli ✓ / Sufficient ✓	94.03
PHYS 102 - Genel Fizik II / PHYS 102 - General Physics II													
a	M1	50	50	201	42	64.05	67.55	171	37	85.07	88.1	Yeterli ✓ / Sufficient ✓	88.1
b	M1	50	50	201	42	64.05	67.55	171	37	85.07	88.1	Yeterli ✓ / Sufficient ✓	88.1
e	M1	50	50	201	42	64.05	67.55	171	37	85.07	88.1	Yeterli ✓ / Sufficient ✓	88.1
g	M1	50	50	201	42	64.05	67.55	171	37	85.07	88.1	Yeterli ✓ / Sufficient ✓	88.1
TURK 101 - Türkçe I / TURK 101 - Turkish I													
c	M1	70	60	1541	132	88.03	89.43	1519	127	98.57	96.21	Yeterli ✓ / Sufficient ✓	96.21
g	M1	70	60	1541	132	88.03	89.43	1519	127	98.57	96.21	Yeterli ✓ / Sufficient ✓	96.21
TURK 102 - Türkçe II / TURK 102 - Turkish II													
c	M1	70	60	637	47	90.42	92.31	626	46	98.27	97.87	Yeterli ✓ / Sufficient ✓	97.87
g	M1	70	60	637	47	90.42	92.31	626	46	98.27	97.87	Yeterli ✓ / Sufficient ✓	97.87

3.3. PERFORMANS ÖLÇÜM SONUÇLARI / PERFORMANCE MEASUREMENT RESULTS

3.3.1. PROGRAM ÇIKTILARI PERFORMANS TABLOSU / PROGRAM OUTCOMES PERFORMANCE TABLE

Dersler / Courses	Program Çıktıları / Program Outcomes							
	a	b	c	d	e	f	g	h
CS 115	✓							
EEE 102	✓		✓	✓		✓	✓	
EEE 202	✓					✓		
EEE 211	X					✓		
EEE 212						✓		
EEE 313	✓							
EEE 321	✓							
EEE 342	✓							
EEE 351	✓	✓						
ENG 101			✓				✓	
ENG 102			✓				✓	
ENG 401			✓				✓	
GE 100			✓				✓	✓
GE 251			✓				✓	✓
GE 301				✓	✓		✓	
HIST 200			✓		✓		✓	
HUM 111			✓				✓	
HUM 112			✓				✓	
MATH 101	✓		✓		✓			
MATH 102	✓		✓		✓			
MATH 241	✓							
MATH 242	✓							
MATH 255	✓					✓		
PHYS 101	✓	✓			✓		✓	
PHYS 102	✓	✓			✓		✓	
TURK 101			✓				✓	
TURK 102			✓				✓	

Tablo.3.3.1. 2024-2025 Akademik Yılı Güz Dönemi Elektrik ve Elektronik Mühendisliği Lisans Programı Program Çıktıları Performans Tablosu / **Table.3.3.1.** 2024-2025 Academic Year Fall Semester Electrical and Electronics Engineering Undergraduate Program - Program Outcomes Performance Table

3.3.2. PROGRAM ÇIKTILARI PERFORMANS ORANLARI / PROGRAM OUTCOMES PERFORMANCE RATES

Dersler / Courses	Program Çıktıları / Program Outcomes							
	a	b	c	d	e	f	g	h
CS 115	99.28							
EEE 102	100		100	100		100	100	
EEE 202	98.8					98.8		
EEE 211	59.46					100		
EEE 212						100		
EEE 313	100							
EEE 321	100							
EEE 342	80.77							
EEE 351	94.59	94.59						
ENG 101			97.79				97.79	
ENG 102			100				100	
ENG 401			96.49				96.49	
GE 100			100				100	100
GE 251			95.79				95.79	95.79
GE 301				100	100		100	
HIST 200			100		100		100	
HUM 111			100				100	
HUM 112			100				100	
MATH 101	97.1		97.1		97.1			
MATH 102	78.43		78.43		78.43			
MATH 241	100							
MATH 242	96.88							
MATH 255	87.5					87.5		
PHYS 101	94.03	94.03			94.03		94.03	
PHYS 102	88.1	88.1			88.1		88.1	
TURK 101			96.21				96.21	
TURK 102			97.87				97.87	

Tablo.3.3.2. 2024-2025 Akademik Yılı Güz Dönemi Elektrik ve Elektronik Mühendisliği Lisans Programı Program Çıktıları Performans Oranları Tablosu / *Table.3.3.2. 2024-2025 Academic Year Fall Semester Electrical and Electronics Engineering Undergraduate Program - Program Outcomes Performance Rates Table*