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EĞİTİMDE KALİTE
GÜVENCESİ GÜZ
DÖNEMİ RAPORU
*QUALITY ASSURANCE IN
EDUCATION FALL SEMESTER
REPORT*

MÜHENDİSLİK FAKÜLTESİ
FACULTY OF ENGINEERING

BİLGİSAYAR MÜHENDİSLİĞİ LİSANS
PROGRAMI (CS)
*COMPUTER ENGINEERING
UNDERGRADUATE PROGRAM (CS)*



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MÜHENDİSLİK FAKÜLTESİ / FACULTY OF ENGINEERING
BİLGİSAYAR MÜHENDİSLİĞİ LİSANS PROGRAMI - CS /
COMPUTER ENGINEERING UNDERGRADUATE PROGRAM - CS

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 101	Algoritmalar ve Programlama I / Algorithms and Programming I	3	4	4	6,5
ENG 101	İngilizce ve Kompozisyon I / English and Composition I	5	0	3	5
GE 100	Üniversite Hayatına Giriş / Orientation	0	0	1	2
MATH 101	Matematik I / Calculus I	4	0	4	6,5
MBG 110	Modern Biyolojiye Giriş / Introduction to Modern Biology	3	0	3	5
TURK 101	Türkçe I / Turkish 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
CS 102	Algoritmalar ve Programlama II / Algorithms and Programming II	3	4	4	6,5
ENG 102	İngilizce ve Kompozisyon II / English and Composition II	5	0	3	5
MATH 102	Matematik II / Calculus II	4	0	4	6,5
MATH 132	Sonlu ve Kombinyon Matematik / Discrete and Combinatorial Mathematics	3	0	3	5
TURK 102	Türkçe II / Turkish II	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
CS 201	Bilgisayar Biliminin Temelleri I / <i>Fundamental Structures of Computer Science I</i>	3	0	3	5
CS 223	Sayısal Devre Tasarımı / <i>Digital Design</i>	3	4	4	6,5
GE 250	Üniversite Etkinlik Programı I / <i>Collegiate Activities Program I</i>	0	0	0	1
HIST 200	Türkiye Tarihi / <i>History of Turkey</i>	3	0	4	6,5
HUM 111	Kültürler, Medeniyetler ve Düşünceler I / <i>Cultures Civilizations and Ideas I</i>	3	0	3	5
PHYS 101	Genel Fizik I / <i>General Physics I</i>	3	3	4	6,5
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
CS 202	Bilgisayar Biliminin Temelleri II / <i>Fundamental Structures of Computer Science II</i>	3	0	3	5
CS 224	Bilgisayar Yapısı / <i>Computer Organization</i>	3	4	4	6,5
GE 251	Üniversite Etkinlik Programı II / <i>Collegiate Activities Program II</i>	0	0	1	2
HUM 112	Kültürler, Medeniyetler ve Düşünceler II / <i>Cultures Civilizations and Ideas II</i>	3	0	3	5
MATH 225	Doğrusal Cebir ve Türevsel Denklemler / <i>Linear Algebra and Differential Equations</i>	4	0	4	6,5
PHYS 102	Genel Fizik II / <i>General Physics II</i>	3	3	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
CS 299	Yaz Stajı I / <i>Summer Training I</i>	0	0	0	7
CS 315	Programlama Dilleri / <i>Programming Languages</i>	3	0	3	5
CS 319	Nesneye Yönelik Yazılım Mühendisliği / <i>Object-Oriented Software Engineering</i>	3	0	4	6,5
ENG 401	Teknik Rapor Yazma ve Sunum / <i>Technical Report Writing and Presentation</i>	3	0	3	5
MATH 230	Mühendisler İçin Olasılık ve İstatistik / <i>Probability and Statistics for Engineers</i>	3	0	3	5
	Temel Sosyal Bilimler Seçmeli Dersi / <i>Social Science Core 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
CS 342	İşletim Sistemleri / <i>Operating Systems</i>	3	0	4	6,5
CS 353	Veri Tabanı Sistemleri / <i>Database Systems</i>	3	0	3	5
CS 473	Algoritmalar I / <i>Algorithms I</i>	3	0	3	5
GE 301	Bilim, Teknoloji ve Toplum / <i>Science Technology and Society</i>	2	0	2	3,5
	Temel Sanat Seçmeli Dersi / <i>Arts Core Elective</i>			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
CS 399	Yaz Stajı II / Summer Training II	0	0	0	7
EEE 391	Temel Sinyaller ve Sistemler / Basics of Signals and Systems	3	0	3	5
IE 400	Mühendislik Yönetiminin İlkeleri / Principles of Engineering Management	3	0	3	5
	Genel Seçmeli Ders / General Elective			3	
	Proje Seçmeli Dersi / Project Elective			3	
	Teknik Seçmeli Ders (2) / Technical Elective (2)			6	
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
CS 476	Otomata Teorisi ve Formal Diller / Automata Theory and Formal Languages	3	0	3	5
	Proje Seçmeli Dersi / Project Elective			3	
	Teknik Seçmeli Ders (3) / Technical Elective (3)			9	

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 function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.*
- 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 101				✓		✓			GE 100			✓	✓			✓	✓
CS 102	✓	✓				✓			GE 250			✓				✓	✓
CS 201	✓					✓			GE 251			✓				✓	✓
CS 202	✓					✓			GE 301				✓	✓		✓	
CS 223		✓							HIST 200			✓		✓		✓	
CS 224						✓			HUM 111			✓				✓	
CS 299	✓		✓	✓				✓	HUM 112			✓				✓	
CS 315		✓			✓			✓	IE 400	✓				✓			
CS 319	✓	✓	✓		✓				MATH 101	✓		✓		✓			
CS 342						✓			MATH 102	✓		✓		✓			
CS 353	✓	✓							MATH 132	✓							
CS 399	✓		✓	✓				✓	MATH 225	✓							
CS 473	✓	✓							MATH 230	✓							
CS 476	✓								MBG 110	✓							
EEE 391	✓							✓	PHYS 101	✓	✓			✓		✓	
ENG 101			✓					✓	PHYS 102	✓	✓			✓		✓	
ENG 102			✓					✓	TURK 101			✓				✓	
ENG 401			✓					✓	TURK 102			✓				✓	

Tablo.2.2. Bilgisayar Mühendisliği Lisans Programı - Program Çıktıları ve Dersler Tablosu / **Table.2.2.** Computer Engineering Undergraduate Program - Program

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	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
CS 101	d	100	100	M1	40	75					
	Program Outputs	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	f	100	100	M1	40	75					
Course Code	Program Outputs	Midterm:Essay/written	Final:Essay/written	Lab work	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
CS 102	a	30	30	10	30	100	M1	40	75		
	Program Outputs	Midterm:Essay/written	Final:Essay/written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	b	33	34	33	100	M1	40	75			
	Program Outputs	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
f	100	100	M1	40	75						
Course Code	Program Outputs	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
CS 201	a	33	34	33	100	M1	50	75			
	Program Outputs	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	f	100	100	M1	50	75					

Course Code	Program Outputs	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
CS 202	a	50	50	100	M1	50	75		
	Program Outputs	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	f	100	100	M1	50	75			
Course Code	Program Outputs	Lab work	Midterm:Open-Book	Final:Open-book	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
CS 223	b	15	35	35	15	100	M1	50	75
Course Code	Program Outputs	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
CS 224	f	100	100	M1	50	75			
Course Code	Program Outputs	Reports about an internship	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
CS 299	a	100	100	M1	50	75			
	Program Outputs	Reports about an internship	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	c	100	100	M1	50	75			
	Program Outputs	Reports about an internship	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	d	100	100	M1	50	75			
	Program Outputs	Reports about an internship	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
g	100	100	M1	50	75				
Course Code	Program Outputs	Project	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
CS 315	b	50	50	100	M1	50	75		
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	e	100	100	M1	50	75			
	Program Outputs	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
g	100	100	M1	50	75				

Course Code	Program Outputs	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
CS 319	a	100	100	M1	50	75					
	Program Outputs	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	b	100	100	M1	50	75					
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	c	100	100	M1	50	75					
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
e	100	100	M1	50	75						
Course Code	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
CS 342	f	100	100	M1	50	75					
Course Code	Program Outputs	Midterm:Essay/written	Final:Essay/written	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
CS 353	a	40	40	10	10	100	M1	50	75		
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	b	100	100	M1	50	75					
Course Code	Program Outputs	Reports about an internship	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
CS 399	a	100	100	M1	50	75					
	Program Outputs	Reports about an internship	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	c	100	100	M1	50	75					
	Program Outputs	Reports about an internship	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	d	100	100	M1	50	75					
	Program Outputs	Reports about an internship	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
g	100	100	M1	50	75						

Course Code	Program Outputs	Homework	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
CS 473	a	40	25	35	100	M1	40	75				
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	b	40	60	100	M1	40	75					
Course Code	Program Outputs	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
CS 476	a	100	100	M1	40	75						
Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Mini Project	Mini Project	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
EEE 391	a	35	40	7,5	7,5	5	5	100	M1	40	80	
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Mini Project	Mini Project	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	35	40	7,5	7,5	5	5	100	M1	40	80	
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	Oral presentation	Oral presentation	Written Project Proposal	Written Final Report	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
ENG 401	c	15	30	20	35	100	M1	70	80	
	Program Outputs	Oral presentation	Oral presentation	Written Project Proposal	Written Final Report	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	15	30	20	35	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 (%)				
	d	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	

Course Code	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
GE 301	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:Essay/written	Quiz	Quiz	Quiz	Quiz	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
IE 400	a	25	10	10	10	10	35	100	M1	30	75	
	Program Outputs	Midterm:Essay/written	Quiz	Quiz	Quiz	Quiz	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	e	25	10	10	10	10	35	100	M1	30	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	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	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	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	Homework	Homework	Homework	Homework	Homework	Midterm:Essay/written	Midterm:Essay/written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
MATH 132	a	2	2	2	2	2	30	30	30	100	M1	40
		Qualification Threshold (%)										
		50										
Course Code	Program Outputs	Midterm:Essay/written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
MATH 225	a	50	50	100	M1	40	50					
Course Code	Program Outputs	Midterm:Essay/written	Homework	Homework	Homework	Homework	Homework	Homework	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
MATH 230	a	40	2,5	2,5	2,5	2,5	2,5	2,5	45	100	M1	30
		Qualification Threshold (%)										
		75										

Course Code	Program Outputs	Quiz	Quiz	Quiz	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 110	a	5	5	5	25	30	30	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 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	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
TURK 101	c	70	30	100	M1	70	60					
	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	g	70	30	100	M1	70	60					

Course Code	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
TURK 102	c	70	30	100	M1	70	60
	Program Outputs	Blog	Final	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 101 - Algoritmalar ve Programlama I / CS 101 - Algorithms and Programming I													
d	M1	40	75	153	125	93.66	93.95	153	125	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
f	M1	40	75	153	125	95.43	96.05	153	125	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
CS 102 - Algoritmalar ve Programlama II / CS 102 - Algorithms and Programming II													
a	M1	40	75	67	65	79.19	79.50	67	65	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
b	M1	40	75	67	65	77.39	77.71	67	65	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
f	M1	40	75	67	65	94.78	94.97	67	65	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
CS 201 - Bilgisayar Biliminin Temelleri I / CS 201 - Fundamental Structures of Computer Science I													
a	M1	50	75	131	125	73.77	74.21	107	103	81.68	82.40	Yeterli ✓ / Sufficient ✓	82.40
f	M1	50	75	131	125	78.56	78.84	116	112	88.55	89.60	Yeterli ✓ / Sufficient ✓	89.60
CS 202 - Bilgisayar Biliminin Temelleri II / CS 202 - Fundamental Structures of Computer Science II													
a	M1	50	75	52	50	68.82	69.59	42	41	80.77	82.00	Yeterli ✓ / Sufficient ✓	82.00
f	M1	50	75	52	50	84.56	84.34	51	49	98.08	98.00	Yeterli ✓ / Sufficient ✓	98.00
CS 223 - Sayısal Devre Tasarımı / CS 223 - Digital Design													
b	M1	50	75	130	129	74.98	74.94	122	121	93.85	93.80	Yeterli ✓ / Sufficient ✓	93.80
CS 224 - Bilgisayar Yapısı / CS 224 - Computer Organization													
f	M1	50	75	71	71	78.65	78.65	66	66	92.96	92.96	Yeterli ✓ / Sufficient ✓	92.96
CS 299 - Yaz Stajı I / CS 299 - Summer Training I													
a	M1	50	75	201	201	80.75	80.75	192	192	95.52	95.52	Yeterli ✓ / Sufficient ✓	95.52
c	M1	50	75	201	201	80.75	80.75	192	192	95.52	95.52	Yeterli ✓ / Sufficient ✓	95.52
CS 299 - Yaz Stajı I / CS 299 - Summer Training I													
d	M1	50	75	201	201	80.75	80.75	192	192	95.52	95.52	Yeterli ✓ / Sufficient ✓	95.52
g	M1	50	75	201	201	80.75	80.75	192	192	95.52	95.52	Yeterli ✓ / Sufficient ✓	95.52
CS 315 - Programlama Dilleri / CS 315 - Programming Languages													
b	M1	50	75	152	152	81.67	81.67	148	148	97.37	97.37	Yeterli ✓ / Sufficient ✓	97.37
e	M1	50	75	152	152	79.97	79.97	142	142	93.42	93.42	Yeterli ✓ / Sufficient ✓	93.42
g	M1	50	75	152	152	89.67	89.67	148	148	97.37	97.37	Yeterli ✓ / Sufficient ✓	97.37
CS 319 - Nesneye Yönelik Yazılım Mühendisliği / CS 319 - Object-Oriented Software Engineering													
a	M1	50	75	161	159	58.04	58.25	122	121	75.78	76.10	Yeterli ✓ / Sufficient ✓	76.10
b	M1	50	75	161	159	64.43	64.62	144	143	89.44	89.94	Yeterli ✓ / Sufficient ✓	89.94
c	M1	50	75	161	159	82.48	82.52	151	149	93.79	93.71	Yeterli ✓ / Sufficient ✓	93.71
e	M1	50	75	161	159	82.48	82.52	151	149	93.79	93.71	Yeterli ✓ / Sufficient ✓	93.71

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 342 - İşletim Sistemleri / CS 342 - Operating Systems													
f	M1	50	75	54	50	71.91	71.96	48	44	88.89	88.00	Yeterli ✓ / Sufficient ✓	88.00
CS 353 - Veri Tabanı Sistemleri / CS 353 - Database Systems													
a	M1	50	75	69	64	57.64	58.75	39	39	56.52	60.94	İyileştirmeye Açık! / Insufficient!	60.94
b	M1	50	75	69	64	81.52	83.34	68	63	98.55	98.44	Yeterli ✓ / Sufficient ✓	98.44
CS 399 - Yaz Stajı II / CS 399 - Summer Training II													
a	M1	50	75	159	159	78.99	78.99	148	148	93.08	93.08	Yeterli ✓ / Sufficient ✓	93.08
c	M1	50	75	159	159	78.99	78.99	148	148	93.08	93.08	Yeterli ✓ / Sufficient ✓	93.08
d	M1	50	75	159	159	78.99	78.99	148	148	93.08	93.08	Yeterli ✓ / Sufficient ✓	93.08
g	M1	50	75	159	159	78.99	78.99	148	148	93.08	93.08	Yeterli ✓ / Sufficient ✓	93.08
CS 473 - Algoritmalar I / CS 473 - Algorithms I													
a	M1	40	75	132	132	44.68	44.68	76	76	57.58	57.58	İyileştirmeye Açık! / Insufficient!	57.58
b	M1	40	75	132	132	40.03	40.03	62	62	46.97	46.97	İyileştirmeye Açık! / Insufficient!	46.97
CS 476 - Otomata Teorisi ve Formal Diller / CS 476 - Automata Theory and Formal Languages													
a	M1	40	75	60	60	39.35	39.35	23	23	38.33	38.33	İyileştirmeye Açık! / Insufficient!	38.33
EEE 391 - Temel Sinyaller ve Sistemler / EEE 391 - Basics of Signals and Systems													
a	M1	40	80	135	132	60.77	61.00	119	118	88.15	89.39	Yeterli ✓ / Sufficient ✓	89.39
g	M1	40	80	135	132	60.77	61.00	119	118	88.15	89.39	Yeterli ✓ / Sufficient ✓	89.39
ENG 101 - İngilizce ve Kompozisyon I / ENG 101 - English and Composition I													
c	M1	70	75	1698	132	82.20	86.72	1560	131	91.87	99.24	Yeterli ✓ / Sufficient ✓	99.24
g	M1	70	75	1698	132	82.20	86.72	1560	131	91.87	99.24	Yeterli ✓ / Sufficient ✓	99.24
ENG 102 - İngilizce ve Kompozisyon II / ENG 102 - English and Composition II													
c	M1	70	70	543	54	85.44	90.06	526	53	96.87	98.15	Yeterli ✓ / Sufficient ✓	98.15
g	M1	70	70	543	54	85.44	90.06	526	53	96.87	98.15	Yeterli ✓ / Sufficient ✓	98.15
ENG 401 - Teknik Rapor Yazma ve Sunum / ENG 401 - Technical Report Writing and Presentation													
c	M1	70	80	266	120	88.72	88.88	266	120	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
g	M1	70	80	266	120	88.72	88.88	266	120	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
GE 100 - Üniversite Hayatına Giriş / GE 100 - Orientation													
c	M1	12	80	1681	130	97.15	98.85	1681	130	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
d	M1	12	80	1681	130	97.15	98.85	1681	130	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
g	M1	12	80	1681	130	97.15	98.85	1681	130	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
h	M1	12	80	1681	130	97.15	98.85	1681	130	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00

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 251 - Üniversite Etkinlik Programı II / GE 251 - Collegiate Activities Program II													
c	M1	70	70	838	83	93.01	93.31	776	76	92.60	91.57	Yeterli ✓ / Sufficient ✓	91.57
g	M1	70	70	838	83	93.01	93.31	776	76	92.60	91.57	Yeterli ✓ / Sufficient ✓	91.57
h	M1	70	70	838	83	93.01	93.31	776	76	92.60	91.57	Yeterli ✓ / Sufficient ✓	91.57
GE 301 - Bilim, Teknoloji ve Toplum / GE 301 - Science Technology and Society													
d	M1	45	60	366	78	82.99	84.02	366	78	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
e	M1	45	60	366	78	82.99	84.02	366	78	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
g	M1	45	60	366	78	82.99	84.02	366	78	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
HIST 200 - Türkiye Tarihi / HIST 200 - History of Turkey													
c	M1	70	75	1055	103	93.35	96.26	1044	103	98.96	100.00	Yeterli ✓ / Sufficient ✓	100.00
e	M1	70	75	1055	103	93.35	96.26	1044	103	98.96	100.00	Yeterli ✓ / Sufficient ✓	100.00
g	M1	70	75	1055	103	93.35	96.26	1044	103	98.96	100.00	Yeterli ✓ / Sufficient ✓	100.00
HUM 111 - Kültürler, Medeniyetler ve Düşünceler I / HUM 111 - Cultures Civilizations and Ideas I													
c	M1	60	75	1110	142	83.62	86.62	1099	140	99.01	98.59	Yeterli ✓ / Sufficient ✓	98.59
g	M1	60	75	1110	142	83.62	86.62	1099	140	99.01	98.59	Yeterli ✓ / Sufficient ✓	98.59
HUM 112 - Kültürler, Medeniyetler ve Düşünceler II / HUM 112 - Cultures Civilizations and Ideas II													
c	M1	60	75	238	42	83.67	85.85	237	42	99.58	100.00	Yeterli ✓ / Sufficient ✓	100.00
g	M1	60	75	238	42	83.67	85.85	237	42	99.58	100.00	Yeterli ✓ / Sufficient ✓	100.00
IE 400 - Mühendislik Yönetiminin İlkeleri / IE 400 - Principles of Engineering Management													
a	M1	30	75	135	122	63.22	63.61	135	122	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
e	M1	30	75	135	122	63.22	63.61	135	122	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
MATH 101 - Matematik I / MATH 101 - Calculus I													
a	M1	40	50	741	137	65.46	74.06	686	135	92.58	98.54	Yeterli ✓ / Sufficient ✓	98.54
c	M1	40	50	741	137	65.46	74.06	686	135	92.58	98.54	Yeterli ✓ / Sufficient ✓	98.54
e	M1	40	50	741	137	65.46	74.06	686	135	92.58	98.54	Yeterli ✓ / Sufficient ✓	98.54
MATH 102 - Matematik II / MATH 102 - Calculus II													
a	M1	40	50	215	60	54.07	63.09	156	50	72.56	83.33	Yeterli ✓ / Sufficient ✓	83.33
c	M1	40	50	215	60	54.07	63.09	156	50	72.56	83.33	Yeterli ✓ / Sufficient ✓	83.33
e	M1	40	50	215	60	54.07	63.09	156	50	72.56	83.33	Yeterli ✓ / Sufficient ✓	83.33
MATH 132 - Sonlu ve Kombinyonal Matematik / MATH 132 - Discrete and Combinatorial Mathematics													
a	M1	40	50	178	67	57.34	63.68	150	59	84.27	88.06	Yeterli ✓ / Sufficient ✓	88.06
MATH 225 - Doğrusal Cebir ve Türevsel Denklemler / MATH 225 - Linear Algebra and Differential Equations													
a	M1	40	50	206	71	45.79	48.51	118	42	57.28	59.15	Yeterli ✓ / Sufficient ✓	59.15

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
MATH 230 - Mühendisler İçin Olasılık ve İstatistik / MATH 230 - Probability and Statistics for Engineers													
a	M1	30	75	246	156	58.33	59.08	237	149	96.34	95.51	Yeterli ✓ / Sufficient ✓	95.51
MBG 110 - Modern Biyolojiye Giriş / MBG 110 - Introduction to Modern Biology													
a	M1	50	50	450	132	64.65	75.25	345	127	76.67	96.21	Yeterli ✓ / Sufficient ✓	96.21
PHYS 101 - Genel Fizik I / PHYS 101 - General Physics I													
a	M1	50	50	663	136	68.54	74.37	598	130	90.20	95.59	Yeterli ✓ / Sufficient ✓	95.59
b	M1	50	50	663	136	68.54	74.37	598	130	90.20	95.59	Yeterli ✓ / Sufficient ✓	95.59
e	M1	50	50	663	136	68.54	74.37	598	130	90.20	95.59	Yeterli ✓ / Sufficient ✓	95.59
g	M1	50	50	663	136	68.54	74.37	598	130	90.20	95.59	Yeterli ✓ / Sufficient ✓	95.59
PHYS 102 - Genel Fizik II / PHYS 102 - General Physics II													
a	M1	50	50	135	19	63.16	65.86	107	17	79.26	89.47	Yeterli ✓ / Sufficient ✓	89.47
b	M1	50	50	135	19	63.16	65.86	107	17	79.26	89.47	Yeterli ✓ / Sufficient ✓	89.47
e	M1	50	50	135	19	63.16	65.86	107	17	79.26	89.47	Yeterli ✓ / Sufficient ✓	89.47
g	M1	50	50	135	19	63.16	65.86	107	17	79.26	89.47	Yeterli ✓ / Sufficient ✓	89.47
TURK 101 - Türkçe I / TURK 101 - Turkish I													
c	M1	70	60	1516	114	87.68	91.09	1493	113	98.48	99.12	Yeterli ✓ / Sufficient ✓	99.12
g	M1	70	60	1516	114	87.68	91.09	1493	113	98.48	99.12	Yeterli ✓ / Sufficient ✓	99.12
TURK 102 - Türkçe II / TURK 102 - Turkish II													
c	M1	70	60	492	53	90.84	93.73	487	53	98.98	100.00	Yeterli ✓ / Sufficient ✓	100.00
g	M1	70	60	492	53	90.84	93.73	487	53	98.98	100.00	Yeterli ✓ / Sufficient ✓	100.00

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								Dersler / Courses	Program Çıktıları / Program Outcomes							
	a	b	c	d	e	f	g	h		a	b	c	d	e	f	g	h
CS 101				✓		✓			GE 100			✓	✓			✓	✓
CS 102	✓	✓				✓			GE 251			✓				✓	✓
CS 201	✓					✓			GE 301				✓	✓		✓	
CS 202	✓					✓			HIST 200			✓		✓		✓	
CS 223		✓							HUM 111			✓				✓	
CS 224						✓			HUM 112			✓				✓	
CS 299	✓		✓	✓			✓		IE 400	✓				✓			
CS 315		✓			✓		✓		MATH 101	✓		✓		✓			
CS 319	✓	✓	✓		✓				MATH 102	✓		✓		✓			
CS 342						✓			MATH 132	✓							
CS 353	X	✓							MATH 225	✓							
CS 399	✓		✓	✓			✓		MATH 230	✓							
CS 473	X	X							MBG 110	✓							
CS 476	X								PHYS 101	✓	✓			✓		✓	
EEE 391	✓						✓		PHYS 102	✓	✓			✓		✓	
ENG 101			✓				✓		TURK 101			✓				✓	
ENG 102			✓				✓		TURK 102			✓				✓	
ENG 401			✓				✓										

Tablo.3.3.1. 2023-2024 Akademik Yılı Güz Dönemi Bilgisayar Mühendisliği Lisans Programı Program Çıktıları Performans Tablosu / *Table.3.3.1.*
2023-2024 Academic Year Fall Semester Computer Engineering Undergraduate Program - Program Outcomes Performance Table

3.3.2. PROGRAM ÇIKTILARI PERFORMANS ORANLARI / PROGRAM OUTCOMES PERFORMANCE RATES

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 101				100.00		100.00			GE 100			100.00	100.00			100.00	100.00
CS 102	100.00	100.00				100.00			GE 251			91.57				91.57	91.57
CS 201	82.40					89.60			GE 301				100.00	100.00		100.00	
CS 202	82.00					98.00			HIST 200			100.00		100.00		100.00	
CS 223		93.80							HUM 111			98.59				98.59	
CS 224						92.96			HUM 112			100.00				100.00	
CS 299	95.52		95.52	95.52			95.52		IE 400	100.00				100.00			
CS 315		97.37			93.42		97.37		MATH 101	98.54		98.54		98.54			
CS 319	76.10	89.94	93.71		93.71				MATH 102	83.33		83.33		83.33			
CS 342						88.00			MATH 132	88.06							
CS 353	60.94	98.44							MATH 225	59.15							
CS 399	93.08		93.08	93.08			93.08		MATH 230	95.51							
CS 473	57.58	46.97							MBG 110	96.21							
CS 476	38.33								PHYS 101	95.59	95.59			95.59		95.59	
EEE 391	89.39						89.39		PHYS 102	89.47	89.47			89.47		89.47	
ENG 101			99.24				99.24		TURK 101			99.12				99.12	
ENG 102			98.15				98.15		TURK 102			100.00				100.00	
ENG 401			100.00				100.00										

Tablo.3.3.2. 2023-2024 Akademik Yılı Güz Dönemi Bilgisayar Mühendisliği Lisans Programı Program Çıktıları Performans Oranları Tablosu /
Table.3.3.2. 2023-2024 Academic Year Fall Semester Computer Engineering Undergraduate Program - Program Outcomes Performance Rates Table