

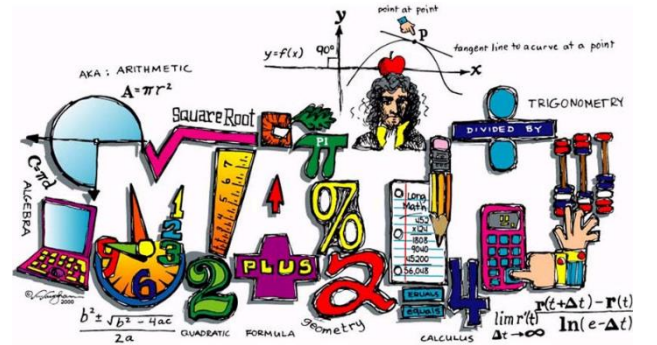
2023-2024 AKADEMİK YILI /
Academic Year

EĞİTİMDE KALİTE GÜVENCESİ YILLIK RAPORU

QUALITY ASSURANCE IN
EDUCATION ANNUAL REPORT

FEN FAKÜLTESİ
FACULTY OF SCIENCES

MATEMATİK LİSANS PROGRAMI (MATH)
MATHEMATICS UNDERGRADUATE PROGRAM
(MATH)



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FEN FAKÜLTESİ / FACULTY OF SCIENCES

MATEMATİK LİSANS PROGRAMI - MATH / MATHEMATICS UNDERGRADUATE PROGRAM - MATH

1. BÖLÜM HAKKINDA / ABOUT THE DEPARTMENT

1.1. EĞİTİM AMAÇLARI / EDUCATIONAL OBJECTIVES

Program mezunlarının mezuniyetlerinden sonraki bir kaç yıl içinde aşağıdaki program eğitim amaçlarından bir veya daha fazlasına ulaşması beklenir. / Graduates of the program are expected to attain or achieve one or more of the following program educational objectives within a few years of their graduation.

- 1) Matematik mezunları matematik ve ilgili alanlarda saygın lisansüstü programlara ve/veya matematikle ilgili şirketlere kabul edileceklerdir. / MATH graduates will get accepted into prestigious graduate programs and/or find employment in companies engaged in mathematics related research.
- 2) Matematik mezunları matematiğe ve/veya temel bilimlere katkıda bulunarak lisansüstü derecelerini alacaklardır. / MATH graduates will obtain graduate degrees by contributing to mathematics and/or basic sciences.
- 3) Matematik mezunları, kariyerlerinde akademik veya endüstriyel ortamlarda önde gelen araştırmacılar olarak öne çıkacaklardır. / MATH graduates will be distinguished in their careers as prominent researchers in academic or industrial environments.
- 4) Matematik mezunları çeşitli alanlardaki karmaşık problemleri çözmek için matematiksel düşünme becerilerini ve teknik uzmanlıklarını uygulayacaklardır. / MATH graduates will apply their mathematical thinking skills and technical expertise to solve complex problems in various areas of mathematics and related fields.

1.1.1. DANIŞMA KURULU / ADVISORY BOARD

- Prof. Dr. Albert Erkip, Öğretim Üyesi, Sabancı Üniversitesi Matematik Bölümü / Prof. Dr. Albert Erkip, Faculty Member, Sabancı University Department of Mathematics
- Doç. Dr. Aslı Pekcan Yıldız, Öğretim Üyesi, Hacettepe Üniversitesi Matematik Bölümü / Assoc. Dr. Aslı Pekcan Yıldız, Faculty Member, Hacettepe University Department of Mathematics
- Prof. Dr. Serap Öztöp Kaptanoğlu, Öğretim Üyesi, İstanbul Üniversitesi Matematik Bölümü / Prof. Dr. Serap Öztöp Kaptanoğlu, Faculty Member, Istanbul University Department of Mathematics
- Doç. Dr. Yasemin Şengül Tezel, Öğretim Üyesi, Cardiff Üniversitesi Matematik Bölümü / Assoc. Dr. Yasemin Şengül Tezel, Faculty Member, Department of Mathematics, Cardiff University
- Doç. Dr. Burcu Silindir Yantır, Öğretim Üyesi, Dokuz Eylül Üniversitesi Matematik Bölümü / Assoc. Dr. Burcu Silindir Yantır, Faculty Member, Dokuz Eylül University, Department of Mathematics
- Dr. Öğr. Üyesi Mehmet Akif Erdal, Öğretim Üyesi, Yeditepe Üniversitesi Matematik Bölümü / Assis. Prof. Mehmet Akif Erdal, Faculty Member, Yeditepe University Department of Mathematics
- Dr. Öğr. Üyesi Çisem Güneş, Öğretim Üyesi, Abdullah Gül Üniversitesi Mühendislik Bilimleri / Assis. Prof. Member Çisem Güneş, Faculty Member, Abdullah Gül University Engineering Sciences
- Prof. Dr. Burak Gürel, Öğretim Üyesi, Boğaziçi Üniversitesi Matematik Bölümü / Prof. Dr. Burak Gürel, Faculty Member, Boğaziçi University Department of Mathematics

1.2. LİSANS PROGRAMI / UNDERGRADUATE PROGRAM

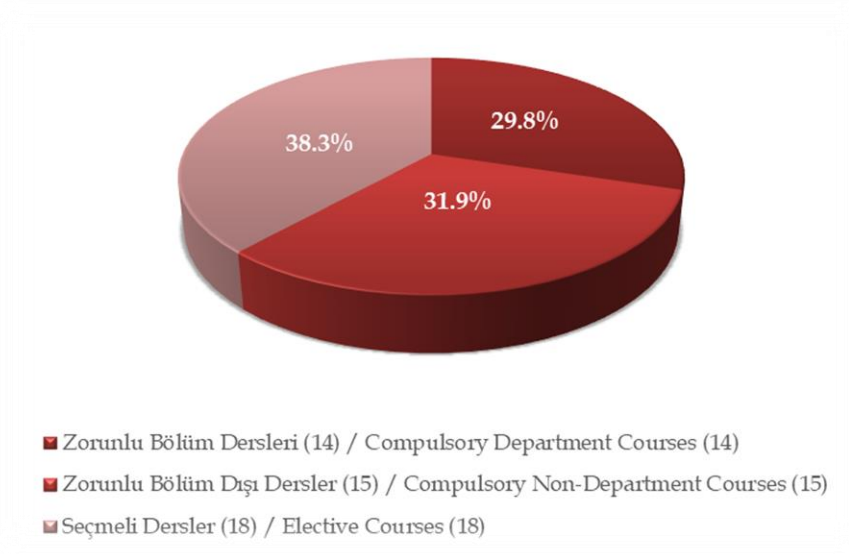
1.2.1. MÜFREDAT / CURRICULUM

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
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
MATH 123	Soyut Matematik I / Abstract Mathematics I	4	0	4	6.5
PHYS 101	Genel Fizik I / General Physics I	3	3	4	6.5
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
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 124	Soyut Matematik II / Abstract Mathematics II	4	0	4	6.5
MBG 110	Modern Biyolojiye Giriş / Introduction to Modern Biology	3	0	3	5
PHYS 102	Genel Fizik II / General Physics II	3	3	4	6.5
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 115	Python ile Programlamaya Giriş / Introduction to Programming in Python	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
MATH 213	İleri Matematik I / Advanced Calculus I	4	0	4	6.5
MATH 223	Doğrusal Cebir I / Linear Algebra I	3	0	3	5
MATH 240	Türevsel Denklemler / Differential Equations	3	0	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
GE 251	Üniversite Etkinlik Programı II / Collegiate Activities Program II	0	0	1	2
MATH 210	Sonlu ve Aynk Matematik / Finite and Discrete Mathematics	3	0	3	5
MATH 214	İleri Matematik II / Advanced Calculus II	4	0	4	6.5
MATH 224	Doğrusal Cebir II / Linear Algebra II	3	0	3	5
	Seçmeli Ders (2) / Elective (2)			6	

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
HUM 111	Kültürler, Medeniyetler ve Düşünceler I / <i>Cultures Civilizations and Ideas I</i>	3	0	3	5
MATH 202	Karmaşık Analiz / <i>Complex Analysis</i>	3	0	3	5
MATH 323	Cebir I / <i>Algebra I</i>	3	0	3	5
	Seçmeli Ders (2) / <i>Elective (2)</i>			6	
	Matematik Seçmeli Dersi / <i>MATH 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
COMD 358	Profesyonel İletişim / <i>Professional Communication</i>	3	0	3	5
HUM 112	Kültürler, Medeniyetler ve Düşünceler II / <i>Cultures Civilizations and Ideas II</i>	3	0	3	5
MATH 253	Sayılar Teorisine Giriş / <i>Introduction to Number Theory</i>	3	0	3	5
	Seçmeli Ders (2) / <i>Elective (2)</i>			6	
	Matematik Seçmeli Dersi / <i>MATH 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
MATH 399	Yaz Stajı / <i>Summer Practice</i>	0	0	0	8
	Seçmeli Ders (2) / <i>Elective (2)</i>			6	
	Matematik Seçmeli Dersi / <i>MATH Elective</i>			3	
	Matematik Proje Seçmeli Dersi / <i>Project Elective</i>			3	
	Temel Sosyal Bilimler Seçmeli Ders / <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
	Temel Sanat Seçmeli Dersi / <i>Arts Core Elective</i>			3	
	Seçmeli Ders (3) / <i>Elective (3)</i>			9	
	Matematik Seçmeli Dersi / <i>MATH Elective</i>			3	

1.2.2. DERSLERİN DAĞILIMI / DISTRIBUTION COURSES



Grafik.1.2.2. Matematik Lisans Programı Müfredatındaki Derslerin Dağılımı / *Graphic.1.2.2. Distribution of Courses in the Mathematics Undergraduate Program Curriculum*

1.3. ÖĞRENCİLER / STUDENTS

1.3.1. ÖĞRENCİ SAYILARI / NUMBER OF STUDENTS

Öğrenci Sayıları / Number of Students	
Hazırlık / Prep	23
1. Sınıf / 1. Class	40
2. Sınıf / 2. Class	30
3. Sınıf / 3. Class	30
4. Sınıf / 4. Class	34
Toplam Öğrenci Sayısı / Total Number of Students	157

Tablo.1.3.1. 2023-2024 Akademik Yılı Matematik Lisans Programı Öğrenci Sayıları / *Table.1.3.1. Number of Students in Mathematics Undergraduate Program for the 2023-2024 Academic Year*

1.3.2. YABANCI ÖĞRENCİ SAYILARI

Yabancı Öğrenci Sayıları / Number of Foreign Students	
Hazırlık / Prep	1
1. Sınıf / 1. Class	1
2. Sınıf / 2. Class	1
3. Sınıf / 3. Class	1
4. Sınıf / 4. Class	2
Toplam Yabancı Öğrenci Sayısı / Total Number of Foreign Students	5

Tablo.1.3.2. 2023-2024 Akademik Yılı Matematik Lisans Programı Yabancı Öğrenci Sayıları / **Table.1.3.2.** Number of Foreign Students in Mathematics Undergraduate Program for the 2023-2024 Academic Year

1.4. ÖĞRETİM ELEMANLARI / FACULTY MEMBERS

1.4.1. ÖĞRETİM ELEMANI SAYILARI / NUMBER OF FACULTY MEMBERS

Öğretim Elemanı Sayıları / Number of Faculty Members	
Profesör Doktor / Professor Doctor	9
Doçent Doktor / Associate Professor	5
Doktor Öğretim Üyesi / Assistant Professor	10
Öğretim Görevlisi / Instructor	7
Toplam Öğretim Elemanı Sayısı / Total Number of Faculty Members	31

Tablo.1.4.1. 2023-2024 Akademik Yılında Matematik Lisans Programı Kadrolu ve Yarı Zamanlı Öğretim Elemanı Sayıları / **Table.1.4.1.** Number of Full-Time and Part-Time Faculty Members in the Mathematics Undergraduate Program in the 2023-2024 Academic Year

1.4.2. ÖĞRETİM ELEMANLARININ LİSTESİ / LIST OF FACULTY MEMBERS

Öğretim Elemanının Unvanı / Title of Faculty Member	Öğretim Elemanının Çalışma Şekli / Work-mode of Faculty Member	Öğretim Elemanının Adı - Soyadı / Name-Surname of Faculty Member	Öğretim Elemanının Unvanı / Title of Faculty Member	Öğretim Elemanının Çalışma Şekli / Work-mode of Faculty Member	Öğretim Elemanının Adı - Soyadı / Name-Surname of Faculty Member
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Alexander Goncharov	Öğretim Görevlisi / Instructor	Tam Zamanlı / Full Time	Dilek Köksal
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Laurence John Barker	Öğretim Görevlisi / Instructor	Tam Zamanlı / Full Time	İnci Apaydın
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Bülent Ünal	Öğretim Görevlisi / Instructor	Tam Zamanlı / Full Time	Tomos Parry
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Hamza Yeşilyurt	Öğretim Görevlisi / Instructor	Yarı Zamanlı / Part Time	Hatice Özcan
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Ahmet Muhtar Güloğlu	Öğretim Görevlisi / Instructor	Yarı Zamanlı / Part Time	Semra Bayat Özdemir
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Özgün Ünlü	Öğretim Görevlisi / Instructor	Tam Zamanlı / Full Time	Mehmet Okan Tekman
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Gökhan Yıldırım	Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Ali Sinan Sertöz
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Yaghoub Heydarzade	Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Azer Kerimov
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Türker Özşarı	Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Aleksander Degtyarev
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Cihan Okay	Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Metin Gürses
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Naci Saldı	Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Ergün Yalçın
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Deniz Yılmaz	Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Aurelian Bebe Nicu Gheondea Eladi
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Çisil Karagüzel	Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Hakkı Turgay Kaptanoğlu
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Cihan Bahran	Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Müfit Sezer
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Kadri İlker Berktaş	Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Mehmet Fatihcan Atay
Öğretim Görevlisi / Instructor	Tam Zamanlı / Full Time	Natalya Zheltukhina			

Tablo.1.4.2. 2023-2024 Akademik Yılında Matematik Lisans Programı Kadrolu ve Yarı Zamanlı Öğretim Elemanı Listesi / *Table.1.4.2. List of Full-Time and Part-Time Faculty Members in the Mathematics Undergraduate Program in the 2023-2024 Academic Year*

1.5. EĞİTİMDE KALİTE KOMİTESİ / COMMITTEE OF QUALITY IN EDUCATION

❖ Mehmet Okan Tekman

2. TÜRKİYE YÜKSEKÖĞRETİM YETERLİLİKLER ÇERÇEVESİ - ULUSAL YETERLİLİKLER / TURKISH HIGHER EDUCATION QUALIFICATIONS FRAMEWORK - NATIONAL QUALIFICATIONS

Mathematics and Statistics Basic Field Qualifications (Academic Weighted) - 6th Level - Bachelor's						
LEVEL OF THEQF	KNOWLEDGE SKILLS -Theoretical -Factual	SKILLS -Cognitive -Practical	COMPETENCIES			
			Ability to Work Independently and Take Responsibility	Learning Competence	Communication and Social Competence	Field-Specific Competence
6th Level Bachelor's	K1. Having advanced theoretical and practical knowledge that emphasizes scientific approach supported by course books, practice tools and other resources containing current information in the field.	S1. Adapting and transferring the field knowledge to secondary education. S2. Using advanced theoretical and practical knowledge in the field. S3. Renewing the knowledge depending on the actual circumstances. S4. Commenting on and assessing data using the advanced knowledge and skills acquired in the field; defining, analyzing and bring solutions to the problems parallel to the actual technologic developments based on evidence. S5. Having the skills to conceptualize the events and facts in the field; examining them with scientific methods and technics. S6. Designing and realizing experiments, gathering data, analyzing and commenting on the	W1. Running an upper level study independently in the field. W2. Taking responsibility individually and as a group member to solve unpredicted complicated problems occurring in field practices. W3. Planning and managing the activities for the improvement of the workers under one's responsibility within a project framework. W4. Taking part in decision making processes for problems in different discipline areas. W5. Using time effectively in achieving results	L1. Critically evaluating the advanced knowledge and skills acquired in the field. L2. Determining learning needs and redirecting education. L3. Developing positive attitude towards lifelong learning. L4. Having the awareness for the necessity of lifelong learning and constantly developing professional	C1. Informing the related persons and organizations in subjects regarding the field and expressing opinions and proposals for solutions to the problems orally and in a written way. C2. Sharing the opinions and solutions to problems supported by quantitative and qualitative data on subjects related to the field with experts and others. C3. Arranging and implementing projects and activities for the society with respect to social responsibility awareness. C4. Keeping track of the developments in the field and communicating with colleagues by speaking a foreign language at least on European Language Portfolio B1 general level. C5. Using informatics and communication technologies together with computer software required by the field at least at European Computer Driving License advanced level.	F1. Following social, scientific, cultural and ethical values in gathering, commenting on and applying data in the field and announcing the results. F2. Having sufficient awareness on universality of social rights, social justice, complying with and participating in quality management and processes (instead of quality culture), protecting cultural values and environment, occupational health and security.

		results for the investigation of problems.	through analytic thinking skills.	knowledge and skills.	C6. Using the field knowledge on human health and environmental awareness for the benefit of the society.	
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3. PROGRAM ÇIKTILARI / PROGRAM OUTCOMES

3.1. PROGRAM ÇIKTILARININ LİSTESİ / LIST OF PROGRAM OUTCOMES

- a. Sahip olduğu matematik bilgisini uygular. / *Able to apply knowledge of mathematics.*
- b. Bir problem için önerilen çözümleri eleştirel olarak değerlendirebilir. / *Able to critically assess proposed solutions to a problem.*
- c. Hipotezleri test edebilir ve alternatifleri formüle edebilir. / *Able to test hypotheses and formulate alternatives.*
- d. Küresel sorunlara yaratıcı çözümler geliştirmek için bilimsel düşüncenin modern yöntem ve araçlarını kullanabilir. / *Able to use modern methods and tools of scientific thought in developing creative solutions for global challenges.*
- e. Bir uygulama alanında koşulları yorumlar ve formüle eder. / *Able to interpret and formulate conditions in a domain of application.*
- f. Çalışma organize eder ve projeleri planlar. / *Able to interpret and formulate conditions in a domain of application.*
- g. Problem çözme diyaloguna ve takım çalışmasına etkin bir şekilde katkıda bulunur. / *Able to contribute effectively in problem-solving dialogue and teamwork*
- h. Yaşam boyu öğrenmeye katılabilir, buna duyulan ihtiyacı tanır. / *Able to engage in life-long learning, recognizing the need for it.*
- i. İlgili kaynaklardan gelen bilgileri yorumlayabilir, değerlendirebilir ve eleştirebilir. / *Able to interpret, review, assess information from relevant sources.*
- j. Fikirleri, düşünceleri etkili bir şekilde organize edebilir ve bunları çeşitli izleyicilere iletmek için gerekli yazma ve iletişim becerilerini geliştirebilir. / *Able to develop writing and communication skills necessary to effectively organizing ideas and conveying them to various audiences.*
- k. Öğrenciler, derslerin yanı sıra çeşitli ve yaratıcı, sanatsal, kültürel, sportif ve entelektüel faaliyetlere katılarak kampüs hayatından daha fazla faydalanabilir. / *Able to take part in artistic, cultural, sportive, and intellectual activities on the campus outside the coursework, which promote diversity, creativity, and commitment.*

3.2. ULUSAL YETERLİLİKLER İLE PROGRAM ÇIKTILARI BAĞLANTI TABLOSU / NATIONAL QUALIFICATIONS AND PROGRAM OUTCOMES CONNECTION TABLE

Ulusal Yeterlilikler / National Competencies	Program Çıktıları / Program Outcomes										
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
K1	✓	✓									
S1		✓									
S2			✓	✓	✓						
S3			✓								
S4				✓	✓						
S5				✓	✓						
S6			✓								
W1						✓					
W2						✓					
W3							✓				
W4							✓				
W5						✓					
L1									✓		
L2						✓					
L3								✓			
L4								✓			
C1							✓				
C2									✓		
C3									✓		
C4										✓	
C5										✓	
C6									✓		✓
F1											✓
F2											✓

Tablo.3.2. Ulusal Yeterlilikler ile Matematik Lisans Programı Program Çıktıları Bağlantı Tablosu / **Table.3.2.** National Qualifications and Mathematics Undergraduate Program Program Outcomes Link Table

4. DERSLER / COURSES

4.1. PROGRAM ÇIKTILARI - DERSLER TABLOSU / PROGRAM OUTCOMES - COURSES TABLE

Dersler / Courses	Program Çıktıları / Program Outcomes										
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
COMD 358									✓	✓	✓
CS 115		✓	✓	✓	✓			✓			
ENG 101									✓	✓	✓
ENG 102									✓	✓	✓
GE 100								✓		✓	✓
GE 250								✓			✓
GE 251								✓			✓
HIST 200							✓		✓		
HUM 111									✓	✓	
HUM 112									✓	✓	
MATH 101	✓	✓					✓			✓	
MATH 102	✓	✓					✓			✓	
MATH 123	✓	✓	✓			✓			✓	✓	
MATH 124	✓		✓	✓		✓			✓	✓	
MATH 202	✓	✓	✓	✓				✓		✓	
MATH 210	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MATH 213	✓		✓	✓		✓			✓	✓	
MATH 214	✓		✓	✓		✓			✓	✓	
MATH 223	✓			✓						✓	
MATH 224	✓			✓						✓	
MATH 240	✓	✓		✓							
MATH 253	✓	✓	✓	✓					✓	✓	
MATH 323	✓										
MBG 110								✓			
PHYS 101	✓		✓	✓				✓		✓	
PHYS 102	✓		✓	✓				✓		✓	
TURK 101										✓	
TURK 102										✓	

Tablo.4.1. Matematik Lisans Programı Program Çıktılarının Müfredat Dersleri ile Eşleşme Tablosu / **Table.4.1.** Mathematics Undergraduate Program - Program Outcomes and Courses Table

4.2. PERFORMANS ÖLÇÜMÜNDE KULLANILAN METRİKLER / METRICS TO BE USED IN PERFORMANCE MEASUREMENT

4.2.1. PERFORMANS ÖLÇÜMLERİNDE KULLANILAN DEĞERLENDİRME METOTLARI // EVALUATION METHODS USED IN PERFORMANCE MEASUREMENTS

4.2.1.1. 2023-2024 Akademik Yılı Güz Dönemi için / For 2023-2024 Academic Year Fall Semester;

Course Code	Program Outputs	Lab exam	Midterm:Essay/written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
CS 115	b	20	40	40	100	M1	40	75				
	Program Outputs	Lab exam	Midterm:Essay/written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	c	20	40	40	100	M1	40	75				
	Program Outputs	Lab exam	Midterm:Essay/written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	d	20	40	40	100	M1	40	75				
	Program Outputs	Lab exam	Midterm:Essay/written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	e	20	40	40	100	M1	40	75				
	Program Outputs	Lab exam	Midterm:Essay/written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
h	20	40	40	100	M1	40	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	i	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 (%)
	j	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 (%)
	k	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	i	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 (%)
	j	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 (%)
k	5	20	20	10	30	15	100	M1	70	70	
Course Code	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
GE 100	h	100	100	M1	12	80					
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	j	100	100	M1	12	80					
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
k	100	100	M1	12	80						
Course Code	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
GE 251	h	100	100	M1	70	70					
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	k	100	100	M1	70	70					
Course Code	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
HIST 200	g	10	60	30	100	M1	70	75			
	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	i	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	i	30	30	10	30	100	M1	50	50		
	Program Outputs	Quizzes	Course Project	In-class participation	Final Examination	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	j	30	30	10	30	100	M1	50	50		
Course Code	Program Outputs	Quizzes	In-class participation	Final:Essay/written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
HUM 112	i	30	10	30	30	100	M1	50	50		
	Program Outputs	Quizzes	In-class participation	Final:Essay/written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	j	30	10	30	30	100	M1	50	50		
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 (%)	
	b	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 (%)	
	g	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 (%)	
j	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 (%)			
	b	30	30	40	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	g	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 (%)					
	j	30	30	40	100	M1	40	50					
Course Code	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	
MATH 123	a	26	26	26	1	1	1	1	1	1	1	1	
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	
		1	1	1	1	1	1	1	1	1	1	1	
		Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
		1	1	1	100	M1	30	40					
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	
	b	26	26	26	1	1	1	1	1	1	1	1	
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	
		1	1	1	1	1	1	1	1	1	1	1	
		Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
		1	1	1	100	M1	30	40					
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	
	c	26	26	26	1	1	1	1	1	1	1	1	
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	
		1	1	1	1	1	1	1	1	1	1	1	
		Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
		1	1	1	100	M1	30	40					
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	
	f	26	26	26	1	1	1	1	1	1	1	1	
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	
1		1	1	1	1	1	1	1	1	1	1		
Homework		Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
1		1	1	100	M1	30	40						

Course Code	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	
MATH 123	i	26	26	26	1	1	1	1	1	1	1	1	
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	
		1	1	1	1	1	1	1	1	1	1	1	
		Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
		1	1	1	100	M1	30	40					
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	
	j	26	26	26	1	1	1	1	1	1	1	1	
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	
		1	1	1	1	1	1	1	1	1	1	1	
		Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
1		1	1	100	M1	30	40						

Course Code	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 213	a	30	30	40	100	M1	30	40
	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	30	40
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	d	30	30	40	100	M1	30	40
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	f	30	30	40	100	M1	30	40
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	i	30	30	40	100	M1	30	40
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
j	30	30	40	100	M1	30	40	

Course Code	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
MATH 223	a	30	30	40	100	M1	30	30					
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	d	30	30	40	100	M1	30	30					
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
j	30	30	40	100	M1	30	30						
Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/writ ten	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	
MATH 240	a	40	48	2	2	2	2	2	2	100	M1	30	
		Qualification Threshold (%)											
	75												
	Program Outputs	Midterm:Essay/ written	Final:Essay/writ ten	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
	b	40	48	2	2	2	2	2	2	2	100	M1	30
		Qualification Threshold (%)											
	75												
	Program Outputs	Midterm:Essay/ written	Final:Essay/writ ten	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
d	40	48	2	2	2	2	2	2	2	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	h	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 (%)		
	c	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 101	d	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 (%)
	h	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 (%)
	j	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 (%)
	c	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 (%)
	d	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 (%)
	h	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 (%)
	j	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	j	70	30	100	M1	70	60				
Course Code	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
TURK 102	j	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 dönem toplamlarının en az G olması / M1: T% of the students to have a semester total of at least G
- M2: Öğrencilerin %T'sinin dönem toplamlarının en az bölümdeki dönem toplamlarının ortalaması kadar olması / M2: T% of the students of the department to have a semester total of at least that of the department average
- M3: Öğrencilerin dönem toplamlarının ortalamasının en az G olması / M3: Average semester total of students of the department to be at least G
- M4: Öğrencilerin %T'sinin dönem toplamlarının en az tüm bölümlerdeki tüm öğrencilerin dönem toplamlarının ortalaması kadar olması / M4: T% of the students of the department to have a semester total of at least average semester total of all students from all departments

4.2.1.2. 2023-2024 Akademik Yılı Bahar Dönemi için / For 2023-2024 Academic Year Spring Semester;

Course Code	Program Outputs	Homework	Homework	Homework	Homework	Midterm	Project	Term project	Presentations	In-class participation	Total Contribution	Qualification Calculation Method	
COMD 358	i	5	5	5	5	25	30	10	10	5	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		60	70										
	Program Outputs	Homework	Homework	Homework	Homework	Midterm	Project	Term project	Presentations	In-class participation	Total Contribution	Qualification Calculation Method	
	j	5	5	5	5	25	30	10	10	5	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		60	70										
	Program Outputs	Homework	Homework	Homework	Homework	Midterm	Project	Term project	Presentations	In-class participation	Total Contribution	Qualification Calculation Method	
	k	5	5	5	5	25	30	10	10	5	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		60	70										
	Course Code	Program Outputs	Lab exam	Midterm:Essay/written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
CS 115	b	20	40	40	100	M1	40	75					
	Program Outputs	Lab exam	Midterm:Essay/written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	c	20	40	40	100	M1	40	75					

Course Code	Program Outputs	Lab exam	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
CS 115	d	20	40	40	100	M1	40	75				
	Program Outputs	Lab exam	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	e	20	40	40	100	M1	40	75				
	Program Outputs	Lab exam	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	h	20	40	40	100	M1	40	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	i	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 (%)
	j	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 (%)
	k	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	i	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 (%)	
	j	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 (%)	
	k	5	20	20	10	30	15	100	M1	70	70	

Course Code	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
GE 100	h	100	100	M1	12	80						
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
	j	100	100	M1	12	80						
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
	k	100	100	M1	12	80						
Course Code	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
GE 251	h	100	100	M1	70	70						
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
	k	100	100	M1	70	70						
Course Code	Program Outputs	Homework	Quiz	Paper Proposal	Papers(s)/ Reports	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
HIST 200	g	2	2	2	2	2	60	30	100	M1	70	75
	Program Outputs	Homework	Quiz	Paper Proposal	Papers(s)/ Reports	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	i	2	2	2	2	2	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	i	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 (%)			
	j	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	i	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 (%)		
	j	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 (%)	
	b	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 (%)	
	g	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 (%)	
j	25	25	30	10	10	100	M1	40	50		
Course Code	Program Outputs	Midterm:Essay/written	Midterm:Essay/written	Final:Essay/written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MATH 102	a	25	25	30	10	10	100	M1	40	50	
	Program Outputs	Midterm:Essay/written	Midterm:Essay/written	Final:Essay/written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	b	25	25	30	10	10	100	M1	40	50	
	Program Outputs	Midterm:Essay/written	Midterm:Essay/written	Final:Essay/written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	25	25	30	10	10	100	M1	40	50	
	Program Outputs	Midterm:Essay/written	Midterm:Essay/written	Final:Essay/written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
j	25	25	30	10	10	100	M1	40	50		

Course Code	Program Outputs	Midterm	Midterm	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	
MATH 124	a	25	25	26	1	1	1	1	1	1	1	1	
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution
		1	1	1	1	2	2	2	2	2	2	2	100
		Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)									
		M1	30	50									
	Program Outputs	Midterm	Midterm	Final:Essay/wri tten	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz
	c	25	25	26	1	1	1	1	1	1	1	1	1
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution
		1	1	1	1	2	2	2	2	2	2	2	100
		Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)									
		M1	30	50									
	Program Outputs	Midterm	Midterm	Final:Essay/wri tten	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz
	d	25	25	26	1	1	1	1	1	1	1	1	1
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution
		1	1	1	1	2	2	2	2	2	2	2	100
		Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)									
		M1	30	50									
	Program Outputs	Midterm	Midterm	Final:Essay/wri tten	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz
	f	25	25	26	1	1	1	1	1	1	1	1	1
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution
		1	1	1	1	2	2	2	2	2	2	2	100
		Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)									
		M1	30	50									

Course Code	Program Outputs	Midterm	Midterm	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	
MATH 124	i	25	25	26	1	1	1	1	1	1	1	1	
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution
		1	1	1	1	2	2	2	2	2	2	2	100
		Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)									
		M1	30	50									
	Program Outputs	Midterm	Midterm	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz
	j	25	25	26	1	1	1	1	1	1	1	1	1
		Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution
		1	1	1	1	2	2	2	2	2	2	2	100
		Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)									
M1		30	50										

Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 210	a	25	30	5	5	5	5	25	100	M1	30	50
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	b	25	30	5	5	5	5	25	100	M1	30	50
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	c	25	30	5	5	5	5	25	100	M1	30	50
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	d	25	30	5	5	5	5	25	100	M1	30	50
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	25	30	5	5	5	5	25	100	M1	30	50
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
f	25	30	5	5	5	5	25	100	M1	30	50	

Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MATH 210	g	25	30	5	5	5	5	25	100	M1	30	50	
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	h	25	30	5	5	5	5	25	100	M1	30	50	
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	i	25	30	5	5	5	5	25	100	M1	30	50	
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	j	25	30	5	5	5	5	25	100	M1	30	50	
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
k	25	30	5	5	5	5	25	100	M1	30	50		
Course Code	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	
MATH 214	a	23	23	24	3	3	3	3	3	3	3	3	
		Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
		3	3	100	M1	30	50						
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	
	c	23	23	24	3	3	3	3	3	3	3	3	
		Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
		3	3	100	M1	30	50						
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	
	d	23	23	24	3	3	3	3	3	3	3	3	
		Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
3		3	100	M1	30	50							

Course Code	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework	
MATH 214	f	23	23	24	3	3	3	3	3	3	3	3	
		Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
		3	3	100	M1	30	50						
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/wri tten	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework
	i	23	23	24	3	3	3	3	3	3	3	3	3
		Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
		3	3	100	M1	30	50						
	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/wri tten	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Homework	Homework	Homework
	j	23	23	24	3	3	3	3	3	3	3	3	3
		Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
		3	3	100	M1	30	50						
	Course Code	Program Outputs	Final:Essay/ written	Midterm:Essay/ written	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 224	a	35	35	6	6	6	6	6	100	M1	30	50	
	Program Outputs	Final:Essay/ written	Midterm:Essay/ written	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	d	35	35	6	6	6	6	6	100	M1	30	50	
	Program Outputs	Final:Essay/ written	Midterm:Essay/ written	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
j	35	35	6	6	6	6	6	100	M1	30	50		
Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	
MATH 240	a	40	46	2	2	2	2	2	2	2	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		30	75										

Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	
MATH 240	b	40	46	2	2	2	2	2	2	2	2	100	M1
		(Average) Qualification Grade	Qualification Threshold (%)										
		30	75										
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method
	d	40	46	2	2	2	2	2	2	2	2	100	M1
		(Average) Qualification Grade	Qualification Threshold (%)										
		30	75										
Course Code	Program Outputs	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	
MATH 253	a	2	2	2	2	2	2	29	29	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		30	50										
	Program Outputs	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	
	b	2	2	2	2	2	2	29	29	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
			30	50									
	Program Outputs	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	
c	2	2	2	2	2	2	29	29	30	100	M1		
	(Average) Qualification Grade	Qualification Threshold (%)											
		30	50										

Course Code	Program Outputs	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	
MATH 253	d	2	2	2	2	2	2	29	29	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		30	50										
	Program Outputs	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	
	i	2	2	2	2	2	2	29	29	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		30	50										
	Program Outputs	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	
	j	2	2	2	2	2	2	29	29	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		30	50										
	<hr/>												
Course Code	Program Outputs	Homework	Quiz	Quiz	Quiz	Midterm	Midterm	Final	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	
MBG 110	h	5	5	5	5	20	20	20	20	100	M1	50	
		Qualification Threshold (%)											
		50											
<hr/>													
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 (%)		
	c	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 101	d	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 (%)
	h	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 (%)
	j	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 (%)
	c	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 (%)
	d	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 (%)
	h	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 (%)
	j	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	j	70	30	100	M1	70	60

Course Code	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
TURK102	j	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 dönem toplamlarının en az G olması / M1: T% of the students to have a semester total of at least G
- M2: Öğrencilerin %T'sinin dönem toplamlarının en az bölümdeki dönem toplamlarının ortalaması kadar olması/ M2: T% of the students of the department to have a semester total of at least that of the department average
- M3: Öğrencilerin dönem toplamlarının ortalamasının en az G olması / M3: Average semester total of students of the department to be at least G
- M4: Öğrencilerin %T'sinin dönem toplamlarının en az tüm bölümlerdeki tüm öğrencilerin dönem toplamlarının ortalaması kadar olması / M4: T% of the students of the department to have a semester total of at least average semester total of all students from all departments

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

4.2.2.1. 2023-2024 Akademik Yılı Güz Dönemi için / For 2023-2024 Academic Year Fall Semester;

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													
b	M1	40	75	351	11	69.76	70.94	346	11	98.58	100.00	Yeterli ✓ / Sufficient ✓	100.00
c	M1	40	75	351	11	69.76	70.94	346	11	98.58	100.00	Yeterli ✓ / Sufficient ✓	100.00
d	M1	40	75	351	11	69.76	70.94	346	11	98.58	100.00	Yeterli ✓ / Sufficient ✓	100.00
e	M1	40	75	351	11	69.76	70.94	346	11	98.58	100.00	Yeterli ✓ / Sufficient ✓	100.00
h	M1	40	75	351	11	69.76	70.94	346	11	98.58	100.00	Yeterli ✓ / Sufficient ✓	100.00
ENG 101 - İngilizce ve Kompozisyon I / ENG 101 - English and Composition I													
i	M1	70	75	1698	26	82.20	83.89	1560	25	91.87	96.15	Yeterli ✓ / Sufficient ✓	96.15
j	M1	70	75	1698	26	82.20	83.89	1560	25	91.87	96.15	Yeterli ✓ / Sufficient ✓	96.15
k	M1	70	75	1698	26	82.20	83.89	1560	25	91.87	96.15	Yeterli ✓ / Sufficient ✓	96.15
ENG 102 - İngilizce ve Kompozisyon II / ENG 102 - English and Composition II													
i	M1	70	70	543	7	85.44	89.39	526	7	96.87	100.00	Yeterli ✓ / Sufficient ✓	100.00
j	M1	70	70	543	7	85.44	89.39	526	7	96.87	100.00	Yeterli ✓ / Sufficient ✓	100.00
k	M1	70	70	543	7	85.44	89.39	526	7	96.87	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 100 - Üniversite Hayatına Giriş / GE 100 - Orientation													
h	M1	12	80	1681	26	97.14	98.85	1681	26	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
j	M1	12	80	1681	26	97.14	98.85	1681	26	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
k	M1	12	80	1681	26	97.14	98.85	1681	26	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
GE 251 - Üniversite Etkinlik Programı II / GE 251 - Collegiate Activities Program II													
h	M1	70	70	838	17	93.01	96.76	776	17	92.60	100.00	Yeterli ✓ / Sufficient ✓	100.00
k	M1	70	70	838	17	93.01	96.76	776	17	92.60	100.00	Yeterli ✓ / Sufficient ✓	100.00
HIST 200 - Türkiye Tarihi / HIST 200 - History of Turkey													
g	M1	70	75	1055	18	93.35	94.04	1044	18	98.96	100.00	Yeterli ✓ / Sufficient ✓	100.00
i	M1	70	75	1055	18	93.35	94.04	1044	18	98.96	100.00	Yeterli ✓ / Sufficient ✓	100.00
HUM 111 - Kültürler, Medeniyetler ve Düşünceler I / HUM 111 - Cultures Civilizations and Ideas I													
i	M1	50	50	1110	19	83.62	88.36	1110	19	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
j	M1	50	50	1110	19	83.62	88.36	1110	19	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
HUM 112 - Kültürler, Medeniyetler ve Düşünceler II / HUM 112 - Cultures Civilizations and Ideas II													
i	M1	50	50	238	10	83.67	92.33	238	10	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
j	M1	50	50	238	10	83.67	92.33	238	10	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
MATH 101 - Matematik I / MATH 101 - Calculus I													
a	M1	40	50	741	34	65.46	65.97	686	34	92.58	100.00	Yeterli ✓ / Sufficient ✓	100.00
b	M1	40	50	741	34	65.46	65.97	686	34	92.58	100.00	Yeterli ✓ / Sufficient ✓	100.00
g	M1	40	50	741	34	65.46	65.97	686	34	92.58	100.00	Yeterli ✓ / Sufficient ✓	100.00
j	M1	40	50	741	34	65.46	65.97	686	34	92.58	100.00	Yeterli ✓ / Sufficient ✓	100.00

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
MATH 102 - Matematik II / MATH 102 - Calculus II													
a	M1	40	50	215	5	54.07	66.22	156	5	72.56	100.00	Yeterli ✓ / Sufficient ✓	100.00
b	M1	40	50	215	5	54.07	66.22	156	5	72.56	100.00	Yeterli ✓ / Sufficient ✓	100.00
g	M1	40	50	215	5	54.07	66.22	156	5	72.56	100.00	Yeterli ✓ / Sufficient ✓	100.00
j	M1	40	50	215	5	54.07	66.22	156	5	72.56	100.00	Yeterli ✓ / Sufficient ✓	100.00
MATH 123 - Soyut Matematik I / MATH 123 - Abstract Mathematics I													
a	M1	30	40	55	41	66.05	64.06	55	41	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
b	M1	30	40	55	41	66.05	64.06	55	41	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
c	M1	30	40	55	41	66.05	64.06	55	41	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
f	M1	30	40	55	41	66.05	64.06	55	41	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
i	M1	30	40	55	41	66.05	64.06	55	41	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
j	M1	30	40	55	41	66.05	64.06	55	41	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
MATH 213 - İleri Matematik I / MATH 213 - Advanced Calculus I													
a	M1	30	40	40	34	40.48	38.09	27	21	67.50	61.76	Yeterli ✓ / Sufficient ✓	61.76
c	M1	30	40	40	34	40.48	38.09	27	21	67.50	61.76	Yeterli ✓ / Sufficient ✓	61.76
d	M1	30	40	40	34	40.48	38.09	27	21	67.50	61.76	Yeterli ✓ / Sufficient ✓	61.76
f	M1	30	40	40	34	40.48	38.09	27	21	67.50	61.76	Yeterli ✓ / Sufficient ✓	61.76
i	M1	30	40	40	34	40.48	38.09	27	21	67.50	61.76	Yeterli ✓ / Sufficient ✓	61.76
j	M1	30	40	40	34	40.48	38.09	27	21	67.50	61.76	Yeterli ✓ / Sufficient ✓	61.76

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
MATH 223 - Doğrusal Cebir I / MATH 223 - Linear Algebra I													
a	M1	30	30	19	15	56.33	55.35	19	15	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
d	M1	30	30	19	15	56.33	55.35	19	15	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
j	M1	30	30	19	15	56.33	55.35	19	15	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
MATH 240 - Türevsel Denklemler / MATH 240 - Differential Equations													
a	M1	30	75	34	18	71.85	69.70	34	18	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
b	M1	30	75	34	18	71.85	69.70	34	18	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
d	M1	30	75	34	18	71.85	69.70	34	18	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
MBG 110 - Modern Biyolojiye Giriş / MBG 110 - Introduction to Modern Biology													
h	M1	50	50	450	10	64.65	62.83	345	9	76.67	90.00	Yeterli ✓ / Sufficient ✓	90.00
PHYS 101 - Genel Fizik I / PHYS 101 - General Physics I													
a	M1	50	50	663	24	68.54	64.60	598	22	90.20	91.67	Yeterli ✓ / Sufficient ✓	91.67
c	M1	50	50	663	24	68.54	64.60	598	22	90.20	91.67	Yeterli ✓ / Sufficient ✓	91.67
d	M1	50	50	663	24	68.54	64.60	598	22	90.20	91.67	Yeterli ✓ / Sufficient ✓	91.67
h	M1	50	50	663	24	68.54	64.60	598	22	90.20	91.67	Yeterli ✓ / Sufficient ✓	91.67
j	M1	50	50	663	24	68.54	64.60	598	22	90.20	91.67	Yeterli ✓ / Sufficient ✓	91.67
PHYS 102 - Genel Fizik II / PHYS 102 - General Physics II													
a	M1	50	50	135	3	63.16	67.14	107	3	79.26	100.00	Yeterli ✓ / Sufficient ✓	100.00
c	M1	50	50	135	3	63.16	67.14	107	3	79.26	100.00	Yeterli ✓ / Sufficient ✓	100.00
d	M1	50	50	135	3	63.16	67.14	107	3	79.26	100.00	Yeterli ✓ / Sufficient ✓	100.00

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
PHYS 102 - Genel Fizik II / PHYS 102 - General Physics II													
h	M1	50	50	135	3	63.16	67.14	107	3	79.26	100.00	Yeterli ✓ / Sufficient ✓	100.00
j	M1	50	50	135	3	63.16	67.14	107	3	79.26	100.00	Yeterli ✓ / Sufficient ✓	100.00
TURK 101 - Türkçe I / TURK 101 - Turkish I													
j	M1	70	60	1516	26	87.68	87.41	1493	26	98.48	100.00	Yeterli ✓ / Sufficient ✓	100.00
TURK 102 - Türkçe II / TURK 102 - Turkish II													
j	M1	70	60	492	6	90.84	91.09	487	6	98.98	100.00	Yeterli ✓ / Sufficient ✓	100.00

4.2.2.2. 2023-2024 Akademik Yılı Bahar Dönemi için / For 2023-2024 Academic Year Spring Semester;

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
COMD 358 - Profesyonel İletişim / COMD 358 - Professional Communication													
i	M1	60	70	362	6	84.12	86.4	357	6	98.62	100	Yeterli ✓ / Sufficient ✓	100
j	M1	60	70	362	6	84.12	86.4	357	6	98.62	100	Yeterli ✓ / Sufficient ✓	100
k	M1	60	70	362	6	84.12	86.4	357	6	98.62	100	Yeterli ✓ / Sufficient ✓	100
CS 115 - Python ile Programlamaya Giriş / CS 115 - Introduction to Programming in Python													
b	M1	40	75	245	17	67.23	69.09	236	17	96.33	100	Yeterli ✓ / Sufficient ✓	100
c	M1	40	75	245	17	67.23	69.09	236	17	96.33	100	Yeterli ✓ / Sufficient ✓	100
d	M1	40	75	245	17	67.23	69.09	236	17	96.33	100	Yeterli ✓ / Sufficient ✓	100
e	M1	40	75	245	17	67.23	69.09	236	17	96.33	100	Yeterli ✓ / Sufficient ✓	100
h	M1	40	75	245	17	67.23	69.09	236	17	96.33	100	Yeterli ✓ / Sufficient ✓	100
ENG 101 - İngilizce ve Kompozisyon I / ENG 101 - English and Composition I													
i	M1	70	75	740	11	81.27	84.56	662	11	89.46	100	Yeterli ✓ / Sufficient ✓	100
j	M1	70	75	740	11	81.27	84.56	662	11	89.46	100	Yeterli ✓ / Sufficient ✓	100
k	M1	70	75	740	11	81.27	84.56	662	11	89.46	100	Yeterli ✓ / Sufficient ✓	100
ENG 102 - İngilizce ve Kompozisyon II / ENG 102 - English and Composition II													
i	M1	70	70	1495	20	84.92	87.01	1428	20	95.52	100	Yeterli ✓ / Sufficient ✓	100
j	M1	70	70	1495	20	84.92	87.01	1428	20	95.52	100	Yeterli ✓ / Sufficient ✓	100
k	M1	70	70	1495	20	84.92	87.01	1428	20	95.52	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
GE 100 - Üniversite Hayatına Giriş / GE 100 - Orientation													
h	M1	12	80	587	8	96.22	98.75	587	8	100	100	Yeterli ✓ / Sufficient ✓	100
j	M1	12	80	587	8	96.22	98.75	587	8	100	100	Yeterli ✓ / Sufficient ✓	100
k	M1	12	80	587	8	96.22	98.75	587	8	100	100	Yeterli ✓ / Sufficient ✓	100
GE 251 - Üniversite Etkinlik Programı II / GE 251 - Collegiate Activities Program II													
h	M1	70	70	1375	11	93.49	93.18	1287	10	93.6	90.91	Yeterli ✓ / Sufficient ✓	90.91
k	M1	70	70	1375	11	93.49	93.18	1287	10	93.6	90.91	Yeterli ✓ / Sufficient ✓	90.91
HIST 200 - Türkiye Tarihi / HIST 200 - History of Turkey													
g	M1	70	75	968	7	91.5	93.71	932	7	96.28	100	Yeterli ✓ / Sufficient ✓	100
i	M1	70	75	968	7	91.5	93.71	932	7	96.28	100	Yeterli ✓ / Sufficient ✓	100
HUM 111 - Kültürler, Medeniyetler ve Düşünceler I / HUM 111 - Cultures Civilizations and Ideas I													
i	M1	60	75	465	5	80.91	86.25	457	5	98.28	100	Yeterli ✓ / Sufficient ✓	100
j	M1	60	75	465	5	80.91	86.25	457	5	98.28	100	Yeterli ✓ / Sufficient ✓	100
HUM 112 - Kültürler, Medeniyetler ve Düşünceler II / HUM 112 - Cultures Civilizations and Ideas II													
i	M1	60	75	937	16	85.62	85.51	930	16	99.25	100	Yeterli ✓ / Sufficient ✓	100
j	M1	60	75	937	16	85.62	85.51	930	16	99.25	100	Yeterli ✓ / Sufficient ✓	100
MATH 101 - Matematik I / MATH 101 - Calculus I													
a	M1	40	50	263	9	58.04	64.01	217	9	82.51	100	Yeterli ✓ / Sufficient ✓	100
b	M1	40	50	263	9	58.04	64.01	217	9	82.51	100	Yeterli ✓ / Sufficient ✓	100

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 101 - Matematik I / MATH 101 - Calculus I													
g	M1	40	50	263	9	58.04	64.01	217	9	82.51	100	Yeterli ✓ / Sufficient ✓	100
j	M1	40	50	263	9	58.04	64.01	217	9	82.51	100	Yeterli ✓ / Sufficient ✓	100
MATH 102 - Matematik II / MATH 102 - Calculus II													
a	M1	40	50	694	27	58.34	57.93	566	22	81.56	81.48	Yeterli ✓ / Sufficient ✓	81.48
b	M1	40	50	694	27	58.34	57.93	566	22	81.56	81.48	Yeterli ✓ / Sufficient ✓	81.48
g	M1	40	50	694	27	58.34	57.93	566	22	81.56	81.48	Yeterli ✓ / Sufficient ✓	81.48
j	M1	40	50	694	27	58.34	57.93	566	22	81.56	81.48	Yeterli ✓ / Sufficient ✓	81.48
MATH 124 - Soyut Matematik II / MATH 124 - Abstract Mathematics II													
a	M1	30	50	42	41	61.95	62.42	41	40	97.62	97.56	Yeterli ✓ / Sufficient ✓	97.56
c	M1	30	50	42	41	61.95	62.42	41	40	97.62	97.56	Yeterli ✓ / Sufficient ✓	97.56
d	M1	30	50	42	41	61.95	62.42	41	40	97.62	97.56	Yeterli ✓ / Sufficient ✓	97.56
f	M1	30	50	42	41	61.95	62.42	41	40	97.62	97.56	Yeterli ✓ / Sufficient ✓	97.56
i	M1	30	50	42	41	61.95	62.42	41	40	97.62	97.56	Yeterli ✓ / Sufficient ✓	97.56
j	M1	30	50	42	41	61.95	62.42	41	40	97.62	97.56	Yeterli ✓ / Sufficient ✓	97.56

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 210 - Sonlu ve Ayrık Matematik / MATH 210 - Finite and Discrete Mathematics													
a	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
b	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
c	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
d	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
e	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
f	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
g	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
h	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
i	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
j	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
k	M1	30	50	28	24	59.97	58.12	27	24	96.43	100	Yeterli ✓ / Sufficient ✓	100
MATH 214 - İleri Matematik II / MATH 214 - Advanced Calculus II													
a	M1	30	50	30	30	43.53	43.53	20	20	66.67	66.67	Yeterli ✓ / Sufficient ✓	66.67
c	M1	30	50	30	30	43.53	43.53	20	20	66.67	66.67	Yeterli ✓ / Sufficient ✓	66.67
d	M1	30	50	30	30	43.53	43.53	20	20	66.67	66.67	Yeterli ✓ / Sufficient ✓	66.67

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 214 - İleri Matematik II / MATH 214 - Advanced Calculus II													
f	M1	30	50	30	30	43.53	43.53	20	20	66.67	66.67	Yeterli ✓ / Sufficient ✓	66.67
i	M1	30	50	30	30	43.53	43.53	20	20	66.67	66.67	Yeterli ✓ / Sufficient ✓	66.67
j	M1	30	50	30	30	43.53	43.53	20	20	66.67	66.67	Yeterli ✓ / Sufficient ✓	66.67
MATH 224 - Doğrusal Cebir II / MATH 224 - Linear Algebra II													
a	M1	30	50	21	18	41.71	40.15	17	14	80.95	77.78	Yeterli ✓ / Sufficient ✓	77.78
d	M1	30	50	21	18	41.71	40.15	17	14	80.95	77.78	Yeterli ✓ / Sufficient ✓	77.78
j	M1	30	50	21	18	41.71	40.15	17	14	80.95	77.78	Yeterli ✓ / Sufficient ✓	77.78
MATH 240 - Türevsel Denklemler / MATH 240 - Differential Equations													
a	M1	30	75	76	9	64.93	75.36	75	9	98.68	100	Yeterli ✓ / Sufficient ✓	100
b	M1	30	75	76	9	64.93	75.36	75	9	98.68	100	Yeterli ✓ / Sufficient ✓	100
d	M1	30	75	76	9	64.93	75.36	75	9	98.68	100	Yeterli ✓ / Sufficient ✓	100
MATH 253 - Sayılar Teorisine Giriş / MATH 253 - Introduction to Number Theory													
a	M1	30	50	39	34	38.24	36.82	26	22	66.67	64.71	Yeterli ✓ / Sufficient ✓	64.71
b	M1	30	50	39	34	38.24	36.82	26	22	66.67	64.71	Yeterli ✓ / Sufficient ✓	64.71
c	M1	30	50	39	34	38.24	36.82	26	22	66.67	64.71	Yeterli ✓ / Sufficient ✓	64.71
d	M1	30	50	39	34	38.24	36.82	26	22	66.67	64.71	Yeterli ✓ / Sufficient ✓	64.71
i	M1	30	50	39	34	38.24	36.82	26	22	66.67	64.71	Yeterli ✓ / Sufficient ✓	64.71
j	M1	30	50	39	34	38.24	36.82	26	22	66.67	64.71	Yeterli ✓ / Sufficient ✓	64.71

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
MBG 110 - Modern Biyolojiye Giriş / MBG 110 - Introduction to Modern Biology													
h	M1	50	50	446	14	71.95	76.89	417	14	93.5	100	Yeterli ✓ / Sufficient ✓	100
PHYS 101 - Genel Fizik I / PHYS 101 - General Physics I													
a	M1	50	50	274	10	65.93	69.46	223	10	81.39	100	Yeterli ✓ / Sufficient ✓	100
c	M1	50	50	274	10	65.93	69.46	223	10	81.39	100	Yeterli ✓ / Sufficient ✓	100
d	M1	50	50	274	10	65.93	69.46	223	10	81.39	100	Yeterli ✓ / Sufficient ✓	100
h	M1	50	50	274	10	65.93	69.46	223	10	81.39	100	Yeterli ✓ / Sufficient ✓	100
j	M1	50	50	274	10	65.93	69.46	223	10	81.39	100	Yeterli ✓ / Sufficient ✓	100
PHYS 102 - Genel Fizik II / PHYS 102 - General Physics II													
a	M1	50	50	647	20	64.72	66.63	549	17	84.85	85	Yeterli ✓ / Sufficient ✓	85
c	M1	50	50	647	20	64.72	66.63	549	17	84.85	85	Yeterli ✓ / Sufficient ✓	85
d	M1	50	50	647	20	64.72	66.63	549	17	84.85	85	Yeterli ✓ / Sufficient ✓	85
h	M1	50	50	647	20	64.72	66.63	549	17	84.85	85	Yeterli ✓ / Sufficient ✓	85
j	M1	50	50	647	20	64.72	66.63	549	17	84.85	85	Yeterli ✓ / Sufficient ✓	85
TURK 101 - Türkçe I / TURK 101 - Turkish I													
j	M1	70	60	612	10	86.39	87.84	605	10	98.86	100	Yeterli ✓ / Sufficient ✓	100
TURK 102 - Türkçe II / TURK 102 - Turkish II													
j	M1	70	60	1438	22	88.83	89.32	1425	22	99.1	100	Yeterli ✓ / Sufficient ✓	100

4.3. PERFORMANS ÖLÇÜM SONUÇLARI / PERFORMANCE MEASUREMENT RESULTS

4.3.1. PROGRAM ÇIKTILARI PERFORMANS TABLOSU / PROGRAM OUTCOMES PERFORMANCE TABLE

4.3.1.1. 2023-2024 Akademik Yılı Güz Dönemi için / For 2023-2024 Academic Year Fall Semester;

Dersler / Courses	Program Çıktıları / Program Outcomes										
	a	b	c	d	e	f	g	h	i	j	k
CS 115		✓	✓	✓	✓			✓			
ENG 101									✓	✓	✓
ENG 102									✓	✓	✓
GE 100								✓		✓	✓
GE 251								✓			✓
HIST 200							✓		✓		
HUM 111									✓	✓	
HUM 112									✓	✓	
MATH 101	✓	✓					✓			✓	
MATH 102	✓	✓					✓			✓	
MATH 123	✓	✓	✓			✓			✓	✓	
MATH 213	✓		✓	✓		✓			✓	✓	
MATH 223	✓			✓						✓	
MATH 240	✓	✓		✓							
MBG 110								✓			
PHYS 101	✓		✓	✓				✓		✓	
PHYS 102	✓		✓	✓				✓		✓	
TURK 101										✓	
TURK 102										✓	

Tablo.4.3.1.1. 2022-2023 Akademik Yılı Güz Dönemi Matematik Lisans Programı Program Çıktıları Performans Tablosu/ *Table.4.3.1.1. 2023-2024 Academic Year Fall Semester Mathematics Undergraduate Program - Program Outcomes Performance Table*

4.3.1.2. 2023-2024 Akademik Yılı Bahar Dönemi için / For 2023-2024 Academic Year Spring Semester;

Dersler / Courses	Program Çıktıları / Program Outcomes										
	a	b	c	d	e	f	g	h	i	j	k
COMD 358									✓	✓	✓
CS 115		✓	✓	✓	✓			✓			
ENG 101									✓	✓	✓
ENG 102									✓	✓	✓
GE 100								✓		✓	✓
GE 251								✓			✓
HIST 200							✓		✓		
HUM 111									✓	✓	
HUM 112									✓	✓	
MATH 101	✓	✓					✓			✓	
MATH 102	✓	✓					✓			✓	
MATH 124	✓		✓	✓		✓			✓	✓	
MATH 210	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MATH 214	✓		✓	✓		✓			✓	✓	
MATH 224	✓			✓						✓	
MATH 240	✓	✓		✓							
MATH 253	✓	✓	✓	✓					✓	✓	
MBG 110								✓			
PHYS 101	✓		✓	✓				✓		✓	
PHYS 102	✓		✓	✓				✓		✓	
TURK 101										✓	
TURK 102										✓	

Tablo.4.3.1.2. 2023-2024 Akademik Yılı Bahar Dönemi Matematik Lisans Programı Program Çıktıları Performans Tablosu / **Table.4.3.1.2.** 2023-2024 Academic Year Spring Semester Mathematics Undergraduate Program - Program Outcomes Performance Table

4.3.2. PROGRAM ÇIKTILARI PERFORMANS ORANLARI / PROGRAM OUTCOMES PERFORMANCE RATES

4.3.2.1. 2023-2024 Akademik Yılı Güz Dönemi için / For 2023-2024 Academic Year Fall Semester;

Dersler / Courses	Program Çıktıları / Program Outcomes										
	a	b	c	d	e	f	g	h	i	j	k
CS 115		100.00	100.00	100.00	100.00			100.00			
ENG 101									96.15	96.15	96.15
ENG 102									100.00	100.00	100.00
GE 100								100.00		100.00	100.00
GE 251								100.00			100.00
HIST 200							100.00		100.00		
HUM 111									100.00	100.00	
HUM 112									100.00	100.00	
MATH 101	100.00	100.00					100.00			100.00	
MATH 102	100.00	100.00					100.00			100.00	
MATH 123	100.00	100.00	100.00			100.00			100.00	100.00	
MATH 213	61.76		61.76	61.76		61.76			61.76	61.76	
MATH 223	100.00			100.00						100.00	
MATH 240	100.00	100.00		100.00							
MBG 110								90.00			
PHYS 101	91.67		91.67	91.67				91.67		91.67	
PHYS 102	100.00		100.00	100.00				100.00		100.00	
TURK 101										100.00	
TURK 102										100.00	

Tablo.4.3.2.1. 2023-2024 Akademik Yılı Güz Dönemi Matematik Lisans Programı Program Çıktıları Performans Oranları Tablosu / Table.4.3.2.1. 2023-2024 Academic Year Fall Semester Mathematics Undergraduate Program - Program Outcomes Performance Rates Table

4.3.2.2. 2023-2024 Akademik Yılı Bahar Dönemi için / For 2023-2024 Academic Year Spring Semester;

Dersler / Courses	Program Çıktıları / Program Outcomes										
	a	b	c	d	e	f	g	h	i	j	k
COMD 358									100	100	100
CS 115		100	100	100	100			100			
ENG 101									100	100	100
ENG 102									100	100	100
GE 100								100		100	100
GE 251								90.91			90.91
HIST 200							100		100		
HUM 111									100	100	
HUM 112									100	100	
MATH 101	100	100					100			100	
MATH 102	81.48	81.48					81.48			81.48	
MATH 124	97.56		97.56	97.56		97.56			97.56	97.56	
MATH 210	100	100	100	100	100	100	100	100	100	100	100
MATH 214	66.67		66.67	66.67		66.67			66.67	66.67	
MATH 224	77.78			77.78						77.78	
MATH 240	100	100		100							
MATH 253	64.71	64.71	64.71	64.71					64.71	64.71	
MBG 110								100			
PHYS 101	100		100	100				100		100	
PHYS 102	85		85	85				85		85	
TURK 101										100	
TURK 102										100	

Tablo.4.3.2.2. 2023-2024 Akademik Yılı Bahar Dönemi Matematik Lisans Programı Program Çıktıları Performans Oranları Tablosu / **Table.4.3.2.2.** 2023-2024 Academic Year Spring Semester Mathematics Undergraduate Program - Program Outcomes Performance Rates Table

5. DEĞERLENDİRME / EVALUATION

5.1. PROGRAM ÇIKTILARI ÖLÇÜM SONUÇLARININ DEĞERLENDİRİLMESİ / EVALUATION OF PROGRAM OUTCOMES MEASUREMENT RESULTS

The assessments of the 11 program outcomes of the Department of Mathematics for the 2023-2024 academic year were made based on 20 courses for the Fall semester, and based on 22 courses for the Spring semester.

As a result of these assessments, it was determined that sufficient performance levels were realized in all of these courses, and the planned goals have been achieved for both semesters of the 2023-2024 academic year.

5.2. EĞİTİM AMAÇLARININ DEĞERLENDİRİLMESİ / EVALUATION OF EDUCATIONAL OBJECTIVES

The Advisory Board of the Department of Mathematics met on June 13, 2024 under the chairpersonship of Dr. Okan Tekman with the following members present:

- Dr. Öğr. Üyesi Çisem Güneş Aktaş (Abdullah Gül University)
- Prof. Dr. Burak Gürel (Bogazici University)
- Dr. Semra Bayat Özdemir
- Dr. Yasemin Şengül Tezel (Cardiff University)
- Doç. Dr. Burcu Silindir Yantır (Dokuz Eylül University)
- Prof. Dr. Aslı Pekcan Yıldız (Hacettepe University)

The Board reviewed the changes in the curriculum and the progress in view of the advice offered in the previous meetings, and offered new advice for the possible directions of development looking forward.

- The Board was pleased that a graduation project is now mandatory for all students, and that different options are offered in terms of the type and the level of the project to suit the needs and the future plans of the students.
- The Board was pleased that more elective courses –like *Math 421 Introduction to Quantum Computation*, *Math 422 Topics in Quantum Information Theory*, and *Math 465 Mathematical Foundations of Data Science*– covering the applied areas which are currently in demand were added to the curriculum.
- The Board suggested the establishment of a first year orientational course which will inform the students in terms of various areas of Mathematics and possible future career choices both in and outside academia, and therefore help them to plan their next four years. *KPD 1001 Kariyer Planlama* course of Dokuz Eylül University and *BA 100 Career Planning* course of Middle East Technical University, as well as *Phys 120 Orientation for Physics Majors* course of Bilkent University, were offered as possible models.
- The Board suggested the organization of regular in-person or Zoom meetings of undergraduate students, especially the freshmen, both with the current faculty

members and the alumni to inform them about possible future career choices both in and outside academia, possibly as part of a first year orientational course.

- The Board suggested that more effort should be made for better informing the students about future career opportunities in the areas of data science and artificial intelligence. Both offering more elective courses in these areas and also making students aware of the prerequisites of these areas and such courses early on, possibly as part of a first year orientational course, were mentioned.