2023-2024 AKADEMİK YILI /
Academic Year

EĞİTİMDE KALİTE GÜVENCESİ YILLIK RAPORU

QUALITY ASSURANCE IN EDUCATION ANNUAL REPORT

FEN FAKÜLTESİ

FACULTY OF SCIENCES

MOLEKÜLER BİYOLOJİ VE GENETİK LİSANS PROGRAMI (MBG)

MOLECULAR BIOLOGY AND GENETICS UNDERGRADUATE PROGRAM (MBG)

İÇİNDEKİLER / CONTENTS

FEN FAKÜLTESİ / *FACULTY OF SCIENCES*

MOLEKÜLER BİYOLOJİ VE GENETİK LİSANS PROGRAMI – MBG / *MOLECULAR BIOLOGY AND GENETICS UNDERGRADUATE PROGRAM - MBG*

1. BÖLÜM HAKKINDA / *ABOUT THE DEPARTMENT*

1.1. EĞİTİM AMAÇLARI / *EDUCATIONAL OBJECTIVES*

Bilkent Üniversitesi Moleküler Biyoloji ve Genetik Bölümü, alanında, Türkiye'nin ve dünyanın önde gelen eğitim ve araştırma bölümlerinden biri olup bilgi-tabanlı eğitimi, ileri araştırma teknolojik ortamıyla birleştirmeyi amaçlar. Spesifik amaçlar aşağıda sıralanmıştır. / *Department of Molecular Biology and Genetics at Bilkent University aims to be a leading education and research department in the Molecular Biology and Genetics fields, providing knowledge-based teaching in a cutting-edge research environment. Specific aims are listed below:*

- Hedef 1: Endüstri ve biyotıp bilimsel çevreleri ile yakın işbirlikleri içinde olmak. / *Objective 1: to develop collaborations with industry and the biomedical scientific community.*
- Hedef 2: İnsan sağlığını tehdit eden hastalıkları, anlamak, tanımlamak, tedavi etmek ve önlemek amacı ile moleküler, hücresel, ve model organizma seviyesinde temel ve uygulamalı araştırmalar yürütmek. / *Objective 2: to conduct basic and applied research at molecular, cellular and model organism level to better understand, treat, and ultimately prevent human diseases.*
- Hedef 3: Kanser, enfeksiyon hastalıkları ve immünoloji, metabolik hastalıklar ve insan genetiğini sistem biyolojisi ile harmanlayarak geniş ve nitelikli bilgi birikimini sağlamak. / *Objective 3: to maintain a breadth and depth of knowledge in areas such as cancer, infections and immunology, metabolic diseases, and human genetics coupled to systems biology.*
- Hedef 4: Öğrencilere, etkin ve yılmaz bir akademik çalışma ile bilimsel keşif olanaklarının birlikte sağlandığı bir eğitim ortamı sağlamak. / *Objective 4: to provide students with an education that combines rigorous academic study and the excitement of scientific discovery.*

1.1.1. DANIŞMA KURULU

- Prof. Dr. Hilal Özdağ, Öğretim Üyesi, Ankara Üniversitesi / *Prof. Dr. Hilal Özdağ, Faculty Member, Ankara University*
- Dr. Öğr. Üyesi, Seçkin Eroğlu, Öğretim Üyesi, Orta Doğu Teknik Üniversitesi / *Assis. Prof. Seçkin Eroğlu, Faculty Member, Middle East Technical University*
- Prof. Dr. Nazlı Başak, Öğretim Üyesi / Direktör, Koç Üniversitesi Tıp Fakültesi / Suna ve İnan Kıraç Vakfı Nörodejenerasyon Araştırma Laboratuvarı / *Prof. Dr. Nazlı Başak, Director, Koç University Faculty of Medicine / Suna and İnan Kıraç Foundation Neurodegeneration Research Laboratory*
- Prof. Dr. Ali Güre, Öğretim Üyesi / Anabilim Dalı Başkanı, Acıbadem Üniversitesi Tıp Fakültesi / Tıbbi Biyoloji / *Prof. Dr. Ali Güre, Head of Department, Acıbadem University Faculty of Medicine / Medical Biology*

1.2. LİSANS PROGRAMI / *UNDERGRADUATE PROGRAM*

1.2.1. MÜFREDAT / *CURRICULUM*

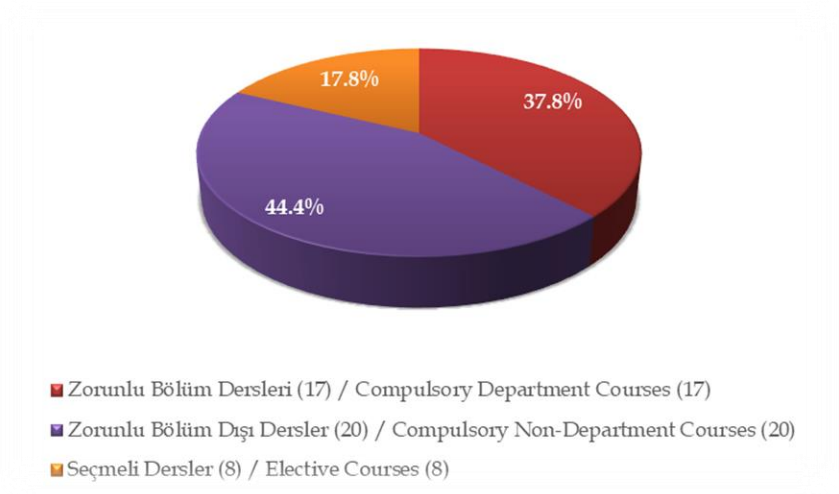
Birinci Yıl / *First Year*					
Güz Dönemi / *Fall Semester*					
Ders Kod / *Course Code*	Ders Adı / *Course Name*	Saatler / *Hours*		Kredi / *Credits*	
		Ders / *Lecture*	Lab / Stüdyo / Diğer / *Lab / Studio / Others*	Bilkent	ECTS
CHEM 101	Kimyanın Temelleri I / *Principles of Chemistry I*	3	4	4	6.5
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 101	Biyoloji I / *Biology I*	3	4	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
CHEM 102	Kimyanın Temelleri II / *Principles of Chemistry II*	3	4	4	6.5
ENG 102	İngilizce ve Kompozisyon II / *Principles of Chemistry II*	5	0	3	5
MATH 102	Matematik II / *Calculus II*	4	0	4	6.5
MBG 102	Biyoloji II / *Biology II*	3	4	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
CHEM 233	Organik Kimyanın Temelleri I / *Principles of Organic Chemistry I*	3	0	3	5
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
MBG 210	Genetik / *Genetics*	3	4	4	6.5
PHYS 101	Genel Fizik I / *General Physics 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
GE 251	Üniversite Etkinlik Programı II / *Collegiate Activities Program II*	0	0	1	2
MATH 262	İstatistik Yöntemleri / *Statistical Methodology*	3	0	3	5
MBG 223	Moleküler Genetik / *Molecular Genetics*	3	4	4	6.5
MBG 230	Moleküler ve Hücre Biyolojisinde Deneysel Yaklaşımlar / *Experimental Approaches in Molecular and Cellular Biology*	3	0	3	5
PHYS 102	Genel Fizik II / *General Physics II*	3	3	4	6.5
	Temel Sanat Seçmeli Dersi / *Arts Core Elective*			3	

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**
COMD 358	Profesyonel İletişim / Professional Communication	3	0	3	5
HUM 111	Kültürler, Medeniyetler ve Düşünceler I / *Cultures Civilizations and Ideas I*	3	0	3	5
MBG 291	Yaz Stajı I / *Summer Practice I*	0	0	0	6
MBG 301	Moleküler Hücre Biyolojisi I / *Molecular Biology of the Cell I*	3	0	3	5
MBG 311	Biyokimya I / *Biochemistry I*	3	4	4	6.5
MBG 324	Gen Moleküler Biyolojisi / *Molecular Biology of the Gene*	3	4	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**
HUM 112	Kültürler, Medeniyetler ve Düşünceler II / *Cultures Civilizations and Ideas II*	3	0	3	5
MBG 302	Moleküler Hücre Biyolojisi II / *Molecular Biology of the Cell II*	3	4	4	6.5
MBG 312	Biyokimya II / *Biochemistry II*	3	0	3	5
MBG 316	Fizyoloji / *Physiology*	3	0	3	5
MBG 338	Mikrobiyoloji / *Microbiology*	3	4	4	6.5

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**
MBG 391	Yaz Stajı II / *Summer Practice II*	0	0	0	6.5
MBG 416	Bilim ve Etik / *Science and Ethics*	3	0	3	5
MBG 491	Mezuniyet Projesi I / *Senior Project I*	0	6	3	5
	Sınırlı Seçmeli Ders / *Restricted 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**
MBG 418	Genomik / *Genomics*	3	4	4	6.5
	Teknik Olmayan Seçmeli Ders / *Non-Technical Elective*			3	
	Sınırlı Seçmeli Ders / *Restricted Elective*			3	
	Temel Sosyal Bilimler Seçmeli Ders / *Social Science Core Elective*			3	
	Teknik Seçmeli Ders / *Technical Elective*			3	

1.2.2. DERSLERİN DAĞILIMI / *DISTRIBUTION COURSES*



Grafik.1.2.2. Moleküler Biyoloji ve Genetik Lisans Programı Müfredatındaki Derslerin Dağılımı / ***Graphic.1.2.2.*** *Distribution of Courses in the Molecular Biology and Genetics Undergraduate Program Curriculum*

1.3. ÖĞRENCİLER / *STUDENTS*

1.3.1. ÖĞRENCİ SAYILARI / *NUMBER OF STUDENTS*

	Öğrenci Sayıları / *Number of Students*
Hazırlık / *Prep*	24
1. Sınıf / *1. Class*	70
2. Sınıf / *2. Class*	72
3. Sınıf / *3. Class*	63
4. Sınıf / *4. Class*	64
Toplam Öğrenci Sayısı / *Total Number of Students*	**293**

Tablo.1.3.1. 2023-2024 Akademik Yılı Moleküler Biyoloji ve Genetik Lisans Programı Öğrenci Sayıları / ***Table.1.3.1.*** *Number of Students in Molecular Biology and Genetics Undergraduate Program for the 2023-2024 Academic Year*

1.3.2. YABANCI ÖĞRENCİ SAYILARI / *NUMBER OF FOREIGN STUDENTS*

	Yabancı Öğrenci Sayıları / *Number of Foreign Students*
Hazırlık / *Prep*	5
1. Sınıf / *1. Class*	3
2. Sınıf / *2. Class*	4
3. Sınıf / *3. Class*	6
Toplam Yabancı Öğrenci Sayısı / *Total Number of Foreign Students*	**18**

Tablo.1.3.2. 2023-2024 Akademik Yılı Moleküler Biyoloji ve Genetik Lisans Programı Yabancı Öğrenci Sayıları / ***Table.1.3.2.*** *Number of Foreign Students in Molecular Biology and Genetics 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*	1
Doçent Doktor / *Associate Professor*	2
Doktor Öğretim Üyesi / *Asisstant Professor*	7
Öğretim Görevlisi / *Instructor*	1
Toplam Öğretim Elemanı Sayısı / *Total Number of Faculty Members*	**11**

Tablo.1.4.1. 2023-2024 Akademik Yılında Moleküler Biyoloji ve Genetik Lisans Programı Kadrolu ve Yarı Zamanlı Öğretim Elemanı Sayıları / ***Table.1.4.1.*** *Number of Full-Time and Part-Time Faculty Members in the Molecular Biology and Genetics 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*
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Işık Yuluğ
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Özlen Konu Karakayalı
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Serkan İsmail Göktuna
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Onur Çizmecioğlu
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Bahar Değirmenci Uzun
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Serkan Belkaya
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Pınar Önal
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	İlyas Chachoua
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Volkan Yazar
Öğretim Görevlisi / Instructor	Tam Zamanlı / Full Time	Özhan Öçal
Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Hasan Tayfun Özçelik

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

1.5. EĞİTİMDE KALİTE KOMİTESİ / *COMMITTEE OF QUALITY IN EDUCATION*

- Işık Yuluğ
- Pınar Önal
- Özhan Öçal

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

Life Sciences 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 EQF-LLL: 6th Level QF-EHEA: 1st Cycle	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 results for the investigation of problems.	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 through analytic thinking skills.	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 knowledge and skills.	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 B1general level. C5. Using informatics and communication technologies together with computer software required by the field at least at European Computer Driving License advanced level. C6. Using the field knowledge on human health and environmental awareness for the benefit of the society.	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.

3. PROGRAM ÇIKTILARI / *PROGRAM OUTCOMES*

3.1. PROGRAM ÇIKTILARININ LİSTESİ / *LIST OF PROGRAM OUTCOMES*

a. Yaşam bilimlerindeki küresel problemlere yaratıcı çözümler bulmak için modern bilgi, düşünme şekli ve araçları kullanır. / *Introduce modern knowledge, thought process, and tools to develop creative solutions for global challenges in life sciences.*

b. Biyolojik deneyler yapabilir, analiz edebilir ve sonuçlarını yorumlayabilir. / *Able to conduct, analyze, interpret results of biological experiments.*

c. Bir projede uzman ve disiplinler arası takımların takım üyesi olarak çalışabilir. / *Able to function as a team member of specialized and interdisciplinary teams in a project.*

d. Yaşam bilimleri araştırmalarında etik ilkeleri uygulayabilir. / *Able to apply ethical principles in life science research.*

e. Bilimsel, küresel, ekonomik, çevresel ve toplumsal ihtiyaçlar bağlamında araştırma sonuçlarını hem yazılı hem de sözlü formatta çeşitli gruplara aktarabilmek için iletişim becerilerini geliştirir. / *Develop skills to communicate research output in both written and oral formats in the context of scientific, global, economic, environmental, and society needs in order to effectively organize ideas and convey them to various audiences.*

f. Bilimsel literatürü eleştirel bir şekilde analiz edebilir ve yaşam boyu öğrenmeyi sürdürebilir. / *Able to critically analyze scientific literature and to engage in lifelong learning.*

g. İlgili hesaplamalı ve biyoinformatik araçlarıyla araştırma yapar. / *Conduct research with relevant computational and bioinformatics tools.*

h. Derslerin yanı sıra çeşitli ve yaratıcı, sanatsal, kültürel, sportif ve entelektüel faaliyetlere katılarak kampüs hayatından yararlanır. / *Take advantage of the campus life in a diverse and creative manner through artistic, cultural, sportive and intellectual activities outside of coursework.*

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)
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 Moleküler Biyoloji ve Genetik Lisans Programı Program Çıktıları Bağlantı Tablosu / ***Table.3.2.*** *National Qualifications and Molecular Biology and Genetics 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
CHEM 101	✔	✔						
CHEM 102	✔	✔	✔					
CHEM 233	✔							
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 262	✔							
MBG 101	✔	✔	✔	✔	✔	✔	✔	
MBG 102	✔	✔	✔	✔	✔	✔		
MBG 210	✔	✔	✔	✔				

Dersler / *Courses*	Program Çıktıları / *Program Outcomes*							
	a	b	c	d	e	f	g	h
MBG 223	✔	✔	✔					
MBG 230	✔	✔		✔		✔		
MBG 291		✔	✔	✔	✔	✔		
MBG 301	✔			✔	✔	✔		
MBG 302	✔	✔		✔	✔	✔		
MBG 311	✔	✔						
MBG 312	✔							
MBG 316	✔		✔		✔			
MBG 324	✔	✔	✔	✔	✔	✔	✔	
MBG 338	✔	✔	✔		✔			
MBG 391		✔	✔	✔	✔	✔		
MBG 416				✔	✔			
MBG 418	✔	✔	✔		✔	✔	✔	
MBG 491	✔		✔	✔	✔			
PHYS 101	✔				✔			
PHYS 102	✔				✔			
TURK 101					✔			
TURK 102					✔			

Tablo.4.1. Moleküler Biyoloji ve Genetik Lisans Programı Program Çıktılarının Müfredat Dersleri ile Eşleşme Tablosu / ***Table.4.1.*** *Molecular Biology and Genetics 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 / / *EVAULATION 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 work	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
CHEM 101	a	50	50	100	M3	50
	Program Outputs	**Lab work**	**Final:Essay/ written**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**
	b	50	50	100	M3	50

Course Code	Program Outputs	Final:Essay/ written	Midterm: Essay/written	Midterm: Essay/written	Quiz	Quiz	Quiz	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
CHEM 233	a	40	25	25	2,5	2,5	2,5	2,5	100	M1	20	75

Course Code	Program Outputs	Homeworks	Homeworks	Homeworks	Homeworks	Homeworks	In-class assignments	In-class assignments	In-class assignments	In-class assignments	In-class assignments	Exam
COMD 358	c	5	5	5	5	5	5	5	5	5	5	25
		Project & Presentations	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**						
		25	100	M1	60	70						
	Program Outputs	**Homeworks**	**Homeworks**	**Homeworks**	**Homeworks**	**Homeworks**	**In-class assignments**	**In-class assignments**	**In-class assignments**	**In-class assignments**	**In-class assignments**	**Exam**
	e	5	5	5	5	5	5	5	5	5	5	25
		Project & Presentations	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**						
		25	100	M1	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	a	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 (%)**	
	g	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	e	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	e	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	f	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	f	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	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

Course Code	Program Outputs	Quizzes	Course Project	In-class participation	Final Examination	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
HUM 111	e	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 (%)**
	f	30	30	10	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 (%)**
	c	25	25	30	10	10	100	M1	40	50

Course Code	Program Outputs	Midterm: Essay/written	Midterm: Essay/written	Quiz	Quiz	Final:Open-book	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MBG 101	a	20	20	5	5	30	20	100	M1	50	50
	Program Outputs	**Midterm: Essay/written**	**Midterm: Essay/written**	**Quiz**	**Quiz**	**Final:Open-book**	**Lab work**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	b	20	20	5	5	30	20	100	M1	50	50

Course Code	Program Outputs	Midterm: Essay/written	Midterm: Essay/written	Quiz	Quiz	Final:Open-book	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 101	c	20	20	5	5	30	20	100	M1	50	50	
	Program Outputs	Midterm: Essay/written	Midterm: Essay/written	Quiz	Quiz	Final:Open-book	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	d	20	20	5	5	30	20	100	M1	50	50	
	Program Outputs	Midterm: Essay/written	Midterm: Essay/written	Quiz	Quiz	Final:Open-book	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	e	20	20	5	5	30	20	100	M1	50	50	
	Program Outputs	Midterm: Essay/written	Midterm: Essay/written	Quiz	Quiz	Final:Open-book	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	f	20	20	5	5	30	20	100	M1	50	50	
	Program Outputs	Midterm: Essay/written	Midterm: Essay/written	Quiz	Quiz	Final:Open-book	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	20	20	5	5	30	20	100	M1	50	50	

Course Code	Program Outputs	Final:Essay/ written	Midterm: Essay/written	Midterm: Essay/written	Lab work	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method
MBG 210	a	30	20	20	25	1	1	1	1	1	100	M1
		(Average) Qualification Grade	Qualification Threshold (%)									
		50	50									
	Program Outputs	Final:Essay/ written	Midterm: Essay/written	Midterm: Essay/written	Lab work	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method
	b	30	20	20	25	1	1	1	1	1	100	M1
		(Average) Qualification Grade	Qualification Threshold (%)									
		50	50									

Course Code	Program Outputs	Final:Essay/ written	Midterm: Essay/written	Midterm: Essay/written	Lab work	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method
MBG 210	c	30	20	20	25	1	1	1	1	1	100	M1
		(Average) Qualification Grade	Qualification Threshold (%)									
		50	50									
	Program Outputs	Final:Essay/ written	Midterm: Essay/written	Midterm: Essay/written	Lab work	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method
	d	30	20	20	25	1	1	1	1	1	100	M1
		(Average) Qualification Grade	Qualification Threshold (%)									
		50	50									

Course Code	Program Outputs	Midterm: Open-Book	Midterm: Open-Book	Final:Open-book	Quiz	Quiz	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MBG 301	a	20	20	35	5	5	15	100	M1	50	50
	Program Outputs	Midterm: Open-Book	Midterm: Open-Book	Final:Open-book	Quiz	Quiz	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	d	20	20	35	5	5	15	100	M1	50	50
	Program Outputs	Midterm: Open-Book	Midterm: Open-Book	Final:Open-book	Quiz	Quiz	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	20	20	35	5	5	15	100	M1	50	50
	Program Outputs	Midterm: Open-Book	Midterm: Open-Book	Final:Open-book	Quiz	Quiz	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	f	20	20	35	5	5	15	100	M1	50	50

Course Code	Program Outputs	Case study	Midterm: Essay/written	Midterm: Essay/written	Final:Essay/ written	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MBG 311	a	5	25	25	30	15	100	M1	50	50
	Program Outputs	Case study	Midterm: Essay/written	Midterm: Essay/written	Final:Essay/ written	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	b	5	25	25	30	15	100	M1	50	50

Course Code	Program Outputs	Midterm	Midterm	Final	In-class participation	Lab exam	Lab exam	Lab exam	Lab exam	Lab exam	Lab work	Lab work
MBG 324		23	27	28	2	1	1	1	1	1	2	2
	a	Lab work	Lab work	Lab work	Lab exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
		2	2	2	5	100	M1	50	50			
	Program Outputs	Midterm	Midterm	Final	In-class participation	Lab exam	Lab exam	Lab exam	Lab exam	Lab exam	Lab work	Lab work
		23	27	28	2	1	1	1	1	1	2	2
	b	Lab work	Lab work	Lab work	Lab exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
		2	2	2	5	100	M1	50	50			
	Program Outputs	Midterm	Midterm	Final	In-class participation	Lab exam	Lab exam	Lab exam	Lab exam	Lab exam	Lab work	Lab work
		23	27	28	2	1	1	1	1	1	2	2
	c	Lab work	Lab work	Lab work	Lab exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
		2	2	2	5	100	M1	50	50			
	Program Outputs	Midterm	Midterm	Final	In-class participation	Lab exam	Lab exam	Lab exam	Lab exam	Lab exam	Lab work	Lab work
		23	27	28	2	1	1	1	1	1	2	2
	d	Lab work	Lab work	Lab work	Lab exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
		2	2	2	5	100	M1	50	50			
	Program Outputs	Midterm	Midterm	Final	In-class participation	Lab exam	Lab exam	Lab exam	Lab exam	Lab exam	Lab work	Lab work
		23	27	28	2	1	1	1	1	1	2	2
	e	Lab work	Lab work	Lab work	Lab exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
		2	2	2	5	100	M1	50	50			
	Program Outputs	Midterm	Midterm	Final	In-class participation	Lab exam	Lab exam	Lab exam	Lab exam	Lab exam	Lab work	Lab work
		23	27	28	2	1	1	1	1	1	2	2
	f	Lab work	Lab work	Lab work	Lab exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
		2	2	2	5	100	M1	50	50			
	Program Outputs	Midterm	Midterm	Final	In-class participation	Lab exam	Lab exam	Lab exam	Lab exam	Lab exam	Lab work	Lab work
		23	27	28	2	1	1	1	1	1	2	2
	g	Lab work	Lab work	Lab work	Lab exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
		2	2	2	5	100	M1	50	50			

Course Code	Program Outputs	Quiz	Quiz	Quiz	Midterm: Essay/written	Midterm :Essay/written	Presentations	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MBG 416	d	5	5	5	20	20	25	20	100	M1	50	50
	Program Outputs	**Quiz**	**Quiz**	**Quiz**	**Midterm: Essay/written**	**Midterm :Essay/written**	**Presentations**	**Final:Essay/ written**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	e	5	5	5	20	20	25	20	100	M1	50	50

Course Code	Program Outputs	Final:Essay/ written	Lab work	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MBG 491	a	20	50	30	100	M1	20	50
	Program Outputs	**Final:Essay/ written**	**Lab work**	**Project**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	c	20	50	30	100	M1	20	50
	Program Outputs	**Final:Essay/ written**	**Lab work**	**Project**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	d	20	50	30	100	M1	20	50
	Program Outputs	**Final:Essay/ written**	**Lab work**	**Project**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	e	20	50	30	100	M1	20	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 (%)**
	e	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	e	70	30	100	M1	70	60

Course Code	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
TURK 102	e	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;

ourse Code	Program Outputs	Lab work	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
CHEM 101	a	50	50	100	M3	50
	Program Outputs	**Lab work**	**Final:Essay/ written**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**
	b	50	50	100	M3	50

Course Code	Program Outputs	Final:Essay/ written	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
CHEM 102	a	50	50	100	M3	50
	Program Outputs	**Final:Essay/ written**	**Lab work**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**
	b	50	50	100	M3	50
	Program Outputs	**Final:Essay/ written**	**Lab work**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**
	c	50	50	100	M3	50

Course Code	Program Outputs	Homework	Homework	Homework	Homework	Midterm	Project	Term project	Presentations	In-class participation	Total Contribution	Qualification Calculation Method
COMD 358	c	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**
	e	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	a	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 (%)**
	g	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	e	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	e	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 251	f	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	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

Course Code	Program Outputs	Quizzes	Course Project	In-class participation	Final Examination	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
HUM 111	e	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 (%)**
	f	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	e	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 (%)**
	f	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 (%)**
	c	25	25	30	10	10	100	M1	40	50

Course Code	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 102	a	30	30	40	100	M1	40	50
	Program Outputs	**Midterm:Essay/ written**	**Midterm:Essay/ written**	**Final:Essay/ written**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	b	30	30	40	100	M1	40	50
	Program Outputs	**Midterm:Essay/ written**	**Midterm:Essay/ written**	**Final:Essay/ written**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	c	30	30	40	100	M1	40	50

Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 262	a	45	46	6	3	100	M1	20	75

Course Code	Program Outputs	Midterm:Essay/ written	Homework	Homework	Quiz	Quiz	Lab work	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MBG 102	a	25	5	5	5	5	25	30	100	M1	50	50
	Program Outputs	**Midterm:Essay/ written**	**Homework**	**Homework**	**Quiz**	**Quiz**	**Lab work**	**Final:Essay/written**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	b	25	5	5	5	5	25	30	100	M1	50	50

Course Code	Program Outputs	Midterm	Midterm	Final	In-class participation	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 223	a	20	20	30	10	20	100	M1	50	50	
	Program Outputs	**Midterm**	**Midterm**	**Final**	**In-class participation**	**Lab work**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	b	20	20	30	10	20	100	M1	50	50	
	Program Outputs	**Midterm**	**Midterm**	**Final**	**In-class participation**	**Lab work**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	c	20	20	30	10	20	100	M1	50	50	

Course Code	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 230	a	30	30	30	10	100	M1	50	50	
	Program Outputs	**Midterm:Essay/ written**	**Midterm:Essay/ written**	**Final:Essay/ written**	**Quiz**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	b	30	30	30	10	100	M1	50	50	
	Program Outputs	**Midterm:Essay/ written**	**Midterm:Essay/ written**	**Final:Essay/ written**	**Quiz**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	d	30	30	30	10	100	M1	50	50	
	Program Outputs	**Midterm:Essay/ written**	**Midterm:Essay/ written**	**Final:Essay/ written**	**Quiz**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	f	30	30	30	10	100	M1	50	50	

Course Code	Program Outputs	Midterm	Final	Lab work	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 302	a	30	40	20	10	100	M1	50	50	
	Program Outputs	**Midterm**	**Final**	**Lab work**	**In-class participation**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	b	30	40	20	10	100	M1	50	50	
	Program Outputs	**Midterm**	**Final**	**Lab work**	**In-class participation**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	d	30	40	20	10	100	M1	50	50	

Course Code	Program Outputs	Midterm	Final	Lab work	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 302	e	30	40	20	10	100	M1	50	50	
	Program Outputs	**Midterm**	**Final**	**Lab work**	**In-class participation**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	f	30	40	20	10	100	M1	50	50	

Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 312	a	40	50	10	100	M1	50	50	

Course Code	Program Outputs	Midterm:Essay/ written	Final	In-class participation	Quiz	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 316	a	30	40	10	10	10	100	M1	50	50	
	Program Outputs	**Midterm:Essay/ written**	**Final**	**In-class participation**	**Quiz**	**Quiz**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	c	30	40	10	10	10	100	M1	50	50	
	Program Outputs	**Midterm:Essay/ written**	**Final**	**In-class participation**	**Quiz**	**Quiz**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	e	30	40	10	10	10	100	M1	50	50	

Course Code	Program Outputs	Lab work	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Case study	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 338	a	20	30	5	40	5	100	M1	50	50	
	Program Outputs	**Lab work**	**Midterm:Essay/ written**	**Midterm:Essay/ written**	**Final:Essay/ written**	**Case study**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	b	20	30	5	40	5	100	M1	50	50	
	Program Outputs	**Lab work**	**Midterm:Essay/ written**	**Midterm:Essay/ written**	**Final:Essay/ written**	**Case study**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	c	20	30	5	40	5	100	M1	50	50	
	Program Outputs	**Lab work**	**Midterm:Essay/ written**	**Midterm:Essay/ written**	**Final:Essay/ written**	**Case study**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	e	20	30	5	40	5	100	M1	50	50	

Course Code	Program Outputs	Midterm	Final	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Presentations
MBG 418	a	21	35	3	3	3	3	3	3	3	3	20
		Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)							
		100	M1	50	50							
	Program Outputs	Midterm	Final	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Presentations
	b	21	35	3	3	3	3	3	3	3	3	20
		Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)							
		100	M1	50	50							
	Program Outputs	Midterm	Final	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Presentations
	c	21	35	3	3	3	3	3	3	3	3	20
		Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)							
		100	M1	50	50							
	Program Outputs	Midterm	Final	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Presentations
	e	21	35	3	3	3	3	3	3	3	3	20
		Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)							
		100	M1	50	50							
	Program Outputs	Midterm	Final	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Presentations
	f	21	35	3	3	3	3	3	3	3	3	20
		Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)							
		100	M1	50	50							
	Program Outputs	Midterm	Final	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Lab work	Presentations
	g	21	35	3	3	3	3	3	3	3	3	20
		Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)							
		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 (%)**	
	e	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 (%)**	
	e	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	e	70	30	100	M1	70	60

Course Code	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
TURK 102	e	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 (%) / *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*
CHEM 101 - Kimyanın Temelleri I / *CHEM 101 - Principles of Chemistry I*													
a	M3	50		82	32	74.50	72.42	82	32	100.00	100.00	Yeterli √ / *Sufficient √*	72.42
b	M3	50		82	32	74.50	72.42	82	32	100.00	100.00	Yeterli √ / *Sufficient √*	72.42
CHEM 233 - Organik Kimyanın Temelleri I / *CHEM 233 - Principles of Organic Chemistry I*													
a	M1	20	75	64	64	58.02	58.02	64	64	100.00	100.00	Yeterli √ / *Sufficient √*	100.00
COMD 358 - Profesyonel İletişim / *COMD 358 - Professional Communication*													
c	M1	60	70	400	44	83.62	90.11	398	44	99.50	100.00	Yeterli √ / *Sufficient √*	100.00
e	M1	60	70	400	44	83.62	90.11	398	44	99.50	100.00	Yeterli √ / *Sufficient √*	100.00
CS 115 - Python ile Programlamaya Giriş / *CS 115 - Introduction to Programming in Python*													
a	M1	40	75	351	42	69.76	61.82	346	42	98.58	100.00	Yeterli √ / *Sufficient √*	100.00
g	M1	40	75	351	42	69.76	61.82	346	42	98.58	100.00	Yeterli √ / *Sufficient √*	100.00
ENG 101 - İngilizce ve Kompozisyon I / *ENG 101 - English and Composition I*													
e	M1	70	75	1698	41	82.20	85.51	1560	41	91.87	100.00	Yeterli √ / *Sufficient √*	100.00
ENG 102 - İngilizce ve Kompozisyon II / *ENG 102 - English and Composition II*													
e	M1	70	70	543	13	85.44	87.24	526	13	96.87	100.00	Yeterli √ / *Sufficient √*	100.00
GE 100 - Üniversite Hayatına Giriş / *GE 100 - Orientation*													
f	M1	12	80	1681	41	97.14	97.80	1681	41	100.00	100.00	Yeterli √ / *Sufficient √*	100.00
h	M1	12	80	1681	41	97.14	97.80	1681	41	100.00	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*
GE 251 - Üniversite Etkinlik Programı II / *GE 251 - Collegiate Activities Program II*													
f	M1	70	70	838	34	93.01	98.82	776	33	92.60	97.06	Yeterli √ / *Sufficient* √	97.06
h	M1	70	70	838	34	93.01	98.82	776	33	92.60	97.06	Yeterli √ / *Sufficient* √	97.06
HIST 200 - Türkiye Tarihi / *HIST 200 - History of Turkey*													
c	M1	70	75	1055	50	93.35	93.72	1044	50	98.96	100.00	Yeterli √ / *Sufficient* √	100.00
e	M1	70	75	1055	50	93.35	93.72	1044	50	98.96	100.00	Yeterli √ / *Sufficient* √	100.00
HUM 111 - Kültürler, Medeniyetler ve Düşünceler I / *HUM 111 - Cultures Civilizations and Ideas I*													
e	M1	60	75	1110	44	83.62	85.99	1099	43	99.01	97.73	Yeterli √ / *Sufficient* √	97.73
f	M1	60	75	1110	44	83.62	85.99	1099	43	99.01	97.73	Yeterli √ / *Sufficient* √	97.73
MATH 101 - Matematik I / *MATH 101 - Calculus I*													
a	M1	40	50	741	46	65.46	55.16	686	36	92.58	78.26	Yeterli √ / *Sufficient* √	78.26
b	M1	40	50	741	46	65.46	55.16	686	36	92.58	78.26	Yeterli √ / *Sufficient* √	78.26
c	M1	40	50	741	46	65.46	55.16	686	36	92.58	78.26	Yeterli √ / *Sufficient* √	78.26
MBG 101 - Biyoloji I / *MBG 101 - Biology I*													
a	M1	50	50	53	52	72.22	72.19	48	47	90.57	90.38	Yeterli √ / *Sufficient* √	90.38
b	M1	50	50	53	52	72.22	72.19	48	47	90.57	90.38	Yeterli √ / *Sufficient* √	90.38
c	M1	50	50	53	52	72.22	72.19	48	47	90.57	90.38	Yeterli √ / *Sufficient* √	90.38
d	M1	50	50	53	52	72.22	72.19	48	47	90.57	90.38	Yeterli √ / *Sufficient* √	90.38
e	M1	50	50	53	52	72.22	72.19	48	47	90.57	90.38	Yeterli √ / *Sufficient* √	90.38
f	M1	50	50	53	52	72.22	72.19	48	47	90.57	90.38	Yeterli √ / *Sufficient* √	90.38
g	M1	50	50	53	52	72.22	72.19	48	47	90.57	90.38	Yeterli √ / *Sufficient* √	90.38

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*
MBG 210 - Genetik / *MBG 210 - Genetics*													
a	M1	50	50	65	64	78.01	78.40	65	64	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
b	M1	50	50	65	64	78.01	78.40	65	64	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
c	M1	50	50	65	64	78.01	78.40	65	64	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
d	M1	50	50	65	64	78.01	78.40	65	64	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
MBG 301 - Moleküler Hücre Biyolojisi I / *MBG 301 - Molecular Biology of the Cell I*													
a	M1	50	50	72	65	72.44	72.33	71	64	98.61	98.46	Yeterli √ / *Sufficient* √	98.46
d	M1	50	50	72	65	72.44	72.33	71	64	98.61	98.46	Yeterli √ / *Sufficient* √	98.46
e	M1	50	50	72	65	72.44	72.33	71	64	98.61	98.46	Yeterli √ / *Sufficient* √	98.46
f	M1	50	50	72	65	72.44	72.33	71	64	98.61	98.46	Yeterli √ / *Sufficient* √	98.46
MBG 311 - Biyokimya I / *MBG 311 - Biochemistry I*													
a	M1	50	50	66	66	51.36	51.36	34	34	51.52	51.52	Yeterli √ / *Sufficient* √	51.52
b	M1	50	50	66	66	51.36	51.36	34	34	51.52	51.52	Yeterli √ / *Sufficient* √	51.52
MBG 324 - Gen Moleküler Biyolojisi / *MBG 324 - Molecular Biology of the Gene*													
a	M1	50	50	62	62	80.10	80.10	61	61	98.39	98.39	Yeterli √ / *Sufficient* √	98.39
b	M1	50	50	62	62	80.10	80.10	61	61	98.39	98.39	Yeterli √ / *Sufficient* √	98.39
c	M1	50	50	62	62	80.10	80.10	61	61	98.39	98.39	Yeterli √ / *Sufficient* √	98.39
d	M1	50	50	62	62	80.10	80.10	61	61	98.39	98.39	Yeterli √ / *Sufficient* √	98.39
e	M1	50	50	62	62	80.10	80.10	61	61	98.39	98.39	Yeterli √ / *Sufficient* √	98.39
f	M1	50	50	62	62	80.10	80.10	61	61	98.39	98.39	Yeterli √ / *Sufficient* √	98.39
g	M1	50	50	62	62	80.10	80.10	61	61	98.39	98.39	Yeterli √ / *Sufficient* √	98.39

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*
MBG 416 - Bilim ve Etik / *MBG 416 - Science and Ethics*													
d	M1	50	50	58	52	81.66	81.88	58	52	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
e	M1	50	50	58	52	81.66	81.88	58	52	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
MBG 491 - Mezuniyet Projesi I / *MBG 491 - Senior Project I*													
a	M1	20	50	49	49	34.68	34.68	43	43	87.76	87.76	Yeterli √ / *Sufficient* √	87.76
c	M1	20	50	49	49	34.68	34.68	43	43	87.76	87.76	Yeterli √ / *Sufficient* √	87.76
d	M1	20	50	49	49	34.68	34.68	43	43	87.76	87.76	Yeterli √ / *Sufficient* √	87.76
e	M1	20	50	49	49	34.68	34.68	43	43	87.76	87.76	Yeterli √ / *Sufficient* √	87.76
PHYS 101 - Genel Fizik I / *PHYS 101 - General Physics I*													
a	M1	50	50	663	67	68.54	61.55	598	55	90.20	82.09	Yeterli √ / *Sufficient* √	82.09
e	M1	50	50	663	67	68.54	61.55	598	55	90.20	82.09	Yeterli √ / *Sufficient* √	82.09
TURK 101 - Türkçe I / *TURK 101 - Turkish I*													
e	M1	70	60	1516	36	87.68	88.04	1493	36	98.48	100.00	Yeterli √ / *Sufficient* √	100.00
TURK 102 - Türkçe II / *TURK 102 - Turkish II*													
e	M1	70	60	492	12	90.84	91.50	487	12	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*
CHEM 101 - Kimyanın Temelleri I / *CHEM 101 - Principles of Chemistry I*													
a	M3	50		51	26	68.28	65.91	49	26	96.08	100	Yeterli √ / *Sufficient* √	65.91
b	M3	50		51	26	68.28	65.91	49	26	96.08	100	Yeterli √ / *Sufficient* √	65.91
CHEM 102 - Kimyanın Temelleri II / *CHEM 102 - Principles of Chemistry II*													
a	M3	50		78	46	72.39	72.59	77	46	98.72	100	Yeterli √ / *Sufficient* √	72.59
b	M3	50		78	46	72.39	72.59	77	46	98.72	100	Yeterli √ / *Sufficient* √	72.59
c	M3	50		78	46	72.39	72.59	77	46	98.72	100	Yeterli √ / *Sufficient* √	72.59
COMD 358 - Profesyonel İletişim / *COMD 358 - Professional Communication*													
c	M1	60	70	362	13	84.12	89.66	357	13	98.62	100	Yeterli √ / *Sufficient* √	100
e	M1	60	70	362	13	84.12	89.66	357	13	98.62	100	Yeterli √ / *Sufficient* √	100
CS 115 - Python ile Programlamaya Giriş / *CS 115 - Introduction to Programming in Python*													
a	M1	40	75	245	38	67.23	58.89	236	35	96.33	92.11	Yeterli √ / *Sufficient* √	92.11
g	M1	40	75	245	38	67.23	58.89	236	35	96.33	92.11	Yeterli √ / *Sufficient* √	92.11
ENG 101 - İngilizce ve Kompozisyon I / *ENG 101 - English and Composition I*													
e	M1	70	75	740	20	81.27	85.41	662	19	89.46	95	Yeterli √ / *Sufficient* √	95
ENG 102 - İngilizce ve Kompozisyon II / *ENG 102 - English and Composition II*													
e	M1	70	70	1495	41	84.92	89.22	1428	41	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 251 - Üniversite Etkinlik Programı II / *GE 251 - Collegiate Activities Program II*													
f	M1	70	70	1375	41	93.49	96.22	1287	39	93.6	95.12	Yeterli √ / *Sufficient* √	95.12
h	M1	70	70	1375	41	93.49	96.22	1287	39	93.6	95.12	Yeterli √ / *Sufficient* √	95.12
HIST 200 - Türkiye Tarihi / *HIST 200 - History of Turkey*													
c	M1	70	75	968	19	92.06	83.43	931	16	96.18	84.21	Yeterli √ / *Sufficient* √	84.21
e	M1	70	75	968	19	92.06	83.43	931	16	96.18	84.21	Yeterli √ / *Sufficient* √	84.21
HUM 111 - Kültürler, Medeniyetler ve Düşünceler I / *HUM 111 - Cultures Civilizations and Ideas I*													
e	M1	60	75	465	7	80.91	87.56	457	7	98.28	100	Yeterli √ / *Sufficient* √	100
f	M1	60	75	465	7	80.91	87.56	457	7	98.28	100	Yeterli √ / *Sufficient* √	100
HUM 112 - Kültürler, Medeniyetler ve Düşünceler II / *HUM 112 - Cultures Civilizations and Ideas II*													
e	M1	60	75	937	45	85.62	90.35	930	44	99.25	97.78	Yeterli √ / *Sufficient* √	97.78
f	M1	60	75	937	45	85.62	90.35	930	44	99.25	97.78	Yeterli √ / *Sufficient* √	97.78
MATH 101 - Matematik I / *MATH 101 - Calculus I*													
a	M1	40	50	263	19	58.04	43.86	217	8	82.51	42.11	İyileştirmeye Açık! / *Insufficient!*	42.11
b	M1	40	50	263	19	58.04	43.86	217	8	82.51	42.11	İyileştirmeye Açık! / *Insufficient!*	42.11
c	M1	40	50	263	19	58.04	43.86	217	8	82.51	42.11	İyileştirmeye Açık! / *Insufficient!*	42.11
MATH 102 - Matematik II / *MATH 102 - Calculus II*													
a	M1	40	50	694	45	55.51	45.24	518	25	74.64	55.56	Yeterli √ / *Sufficient* √	55.56
b	M1	40	50	694	45	55.51	45.24	518	25	74.64	55.56	Yeterli √ / *Sufficient* √	55.56
c	M1	40	50	694	45	55.51	45.24	518	25	74.64	55.56	Yeterli √ / *Sufficient* √	55.56

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 262 - İstatistik Yöntemleri / *MATH 262 - Statistical Methodology*													
a	M1	20	75	63	61	59.27	59.19	63	61	100	100	Yeterli √ / *Sufficient* √	100
MBG 102 - Biyoloji II / *MBG 102 - Biology II*													
a	M1	50	50	54	52	62.96	62.74	47	45	87.04	86.54	Yeterli √ / *Sufficient* √	86.54
b	M1	50	50	54	52	62.96	62.74	47	45	87.04	86.54	Yeterli √ / *Sufficient* √	86.54
c	M1	50	50	54	52	62.96	62.74	47	45	87.04	86.54	Yeterli √ / *Sufficient* √	86.54
d	M1	50	50	54	52	62.96	62.74	47	45	87.04	86.54	Yeterli √ / *Sufficient* √	86.54
e	M1	50	50	54	52	62.96	62.74	47	45	87.04	86.54	Yeterli √ / *Sufficient* √	86.54
f	M1	50	50	54	52	62.96	62.74	47	45	87.04	86.54	Yeterli √ / *Sufficient* √	86.54
MBG 223 - Moleküler Genetik / *MBG 223 - Molecular Genetics*													
a	M1	50	50	69	69	76.12	76.12	67	67	97.1	97.1	Yeterli √ / *Sufficient* √	97.1
b	M1	50	50	69	69	76.12	76.12	67	67	97.1	97.1	Yeterli √ / *Sufficient* √	97.1
c	M1	50	50	69	69	76.12	76.12	67	67	97.1	97.1	Yeterli √ / *Sufficient* √	97.1
MBG 230 - Moleküler ve Hücre Biyolojisinde Deneysel Yaklaşımlar / *MBG 230 - Experimental Approaches in Molecular and Cellular Biology*													
a	M1	50	50	56	56	78.01	78.01	56	56	100	100	Yeterli √ / *Sufficient* √	100
b	M1	50	50	56	56	78.01	78.01	56	56	100	100	Yeterli √ / *Sufficient* √	100
d	M1	50	50	56	56	78.01	78.01	56	56	100	100	Yeterli √ / *Sufficient* √	100
f	M1	50	50	56	56	78.01	78.01	56	56	100	100	Yeterli √ / *Sufficient* √	100

Program Çıktısı / Program Outcome	Yeterlilik Hesaplama Yöntemi / *Method*	(Ortalama) Yeterlilik Notu / *Minimum Successful Grade*	Yeterlilik Eşiği (%) / *Treshold Percentage (%)*	Toplam Öğrenci Sayısı / *Number of Students (All)*	Toplam Dept. Öğrenci Sayısı / *Number of Students (Dept.)*	Tüm Öğrenci Ort. / *Average (All Std.)*	Dept. Öğrenci Ort. / *Average (Dept. Std.)*	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / *Number of Succ. Students (Dept.)*	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / *Success Ratio (Dept.)*	Performans / *Performance*	Yeterlilik Oranı / *Success Ratio*
MBG 302 - Moleküler Hücre Biyolojisi II / *MBG 302 - Molecular Biology of the Cell II*													
a	M1	50	50	58	58	73.35	73.35	57	57	98.28	98.28	Yeterli √ / *Sufficient* √	98.28
b	M1	50	50	58	58	73.35	73.35	57	57	98.28	98.28	Yeterli √ / *Sufficient* √	98.28
d	M1	50	50	58	58	73.35	73.35	57	57	98.28	98.28	Yeterli √ / *Sufficient* √	98.28
e	M1	50	50	58	58	73.35	73.35	57	57	98.28	98.28	Yeterli √ / *Sufficient* √	98.28
f	M1	50	50	58	58	73.35	73.35	57	57	98.28	98.28	Yeterli √ / *Sufficient* √	98.28
MBG 312 - Biyokimya II / *MBG 312 - Biochemistry II*													
a	M1	50	50	59	59	76.75	76.75	59	59	100	100	Yeterli √ / *Sufficient* √	100
MBG 316 - Fizyoloji / *MBG 316 - Physiology*													
a	M1	50	50	59	52	72.16	73.14	58	52	98.31	100	Yeterli √ / *Sufficient* √	100
c	M1	50	50	59	52	72.16	73.14	58	52	98.31	100	Yeterli √ / *Sufficient* √	100
e	M1	50	50	59	52	72.16	73.14	58	52	98.31	100	Yeterli √ / *Sufficient* √	100
MBG 338 - Mikrobiyoloji / *MBG 338 - Microbiology*													
a	M1	50	50	60	59	62.24	62.45	47	47	78.33	79.66	Yeterli √ / *Sufficient* √	79.66
b	M1	50	50	60	59	62.24	62.45	47	47	78.33	79.66	Yeterli √ / *Sufficient* √	79.66
c	M1	50	50	60	59	62.24	62.45	47	47	78.33	79.66	Yeterli √ / *Sufficient* √	79.66
e	M1	50	50	60	59	62.24	62.45	47	47	78.33	79.66	Yeterli √ / *Sufficient* √	79.66

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*
MBG 418 - Genomik / *MBG 418 - Genomics*													
a	M1	50	50	56	53	80.61	80.41	56	53	100	100	Yeterli √ / *Sufficient √*	100
b	M1	50	50	56	53	80.61	80.41	56	53	100	100	Yeterli √ / *Sufficient √*	100
c	M1	50	50	56	53	80.61	80.41	56	53	100	100	Yeterli √ / *Sufficient √*	100
e	M1	50	50	56	53	80.61	80.41	56	53	100	100	Yeterli √ / *Sufficient √*	100
f	M1	50	50	56	53	80.61	80.41	56	53	100	100	Yeterli √ / *Sufficient √*	100
g	M1	50	50	56	53	80.61	80.41	56	53	100	100	Yeterli √ / *Sufficient √*	100
PHYS 101 - Genel Fizik I / *PHYS 101 - General Physics I*													
a	M1	50	50	274	10	65.93	49.82	223	3	81.39	30	İyileştirmeye Açık! / *Insufficient!*	30
e	M1	50	50	274	10	65.93	49.82	223	3	81.39	30	İyileştirmeye Açık! / *Insufficient!*	30
PHYS 102 - Genel Fizik II / *PHYS 102 - General Physics II*													
a	M1	50	50	647	55	64.72	60.19	549	46	84.85	83.64	Yeterli √ / *Sufficient √*	83.64
e	M1	50	50	647	55	64.72	60.19	549	46	84.85	83.64	Yeterli √ / *Sufficient √*	83.64
TURK 101 - Türkçe I / *TURK 101 - Turkish I*													
e	M1	70	60	612	20	86.39	88.17	605	19	98.86	95	Yeterli √ / *Sufficient √*	95
TURK 102 - Türkçe II / *TURK 102 - Turkish II*													
e	M1	70	60	1438	37	88.83	91.33	1425	37	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
CHEM 101	✓	✓						
CHEM 233	✓							
COMD 358			✓		✓			
CS 115	✓						✓	
ENG 101					✓			
ENG 102					✓			
GE 100						✓		✓
GE 251						✓		✓
HIST 200			✓		✓			
HUM 111					✓	✓		
MATH 101	✓	✓	✓					
MBG 101	✓	✓	✓	✓	✓	✓	✓	
MBG 210	✓	✓	✓	✓				
MBG 301	✓			✓	✓	✓		
MBG 311	✓	✓						
MBG 324	✓	✓	✓	✓	✓	✓	✓	
MBG 416				✓	✓			
MBG 491	✓		✓	✓	✓			
PHYS 101	✓				✓			
TURK 101					✓			
TURK 102					✓			

Tablo.4.3.1.1. 2023-2024 Akademik Yılı Güz Dönemi Moleküler Biyoloji ve Genetik Lisans Programı Program Çıktıları Performans Tablosu / ***Table.4.3.1.1.*** *2023-2024 Academic Year Fall Semester Molecular Biology and Genetics 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
CHEM 101	✓	✓						
CHEM 102	✓	✓	✓					
COMD 358			✓		✓			
CS 115	✓						✓	
ENG 101					✓			
ENG 102					✓			
GE 251						✓		✓
HIST 200			✓		✓			
HUM 111					✓	✓		
HUM 112					✓	✓		
MATH 101	✗	✗	✗					
MATH 102	✓	✓	✓					
MATH 262	✓							
MBG 102	✓	✓	✓	✓	✓	✓		
MBG 223	✓	✓	✓					
MBG 230	✓	✓		✓		✓		
MBG 302	✓	✓		✓	✓	✓		
MBG 312	✓							
MBG 316	✓		✓		✓			
MBG 338	✓	✓	✓		✓			
MBG 418	✓	✓	✓		✓	✓	✓	
PHYS 101	✗				✗			
PHYS 102	✓				✓			
TURK 101					✓			
TURK 102					✓			

Tablo.4.3.1.2. 2023-2024 Akademik Yılı Bahar Dönemi Moleküler Biyoloji ve Genetik Lisans Programı Program Çıktıları Performans Tablosu / ***Table.4.3.1.2.*** *2023-2024 Academic Year Spring Semester Molecular Biology and Genetics 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
CHEM 101	72.42	72.42						
CHEM 233	100.00							
COMD 358			100.00		100.00			
CS 115	100.00						100.00	
ENG 101					100.00			
ENG 102					100.00			
GE 100						100.00		100.00
GE 251						97.06		97.06
HIST 200			100.00		100.00			
HUM 111					97.73	97.73		
MATH 101	78.26	78.26	78.26					
MBG 101	90.38	90.38	90.38	90.38	90.38	90.38	90.38	
MBG 210	100.00	100.00	100.00	100.00				
MBG 301	98.46			98.46	98.46	98.46		
MBG 311	51.52	51.52						
MBG 324	98.39	98.39	98.39	98.39	98.39	98.39	98.39	
MBG 416				100.00	100.00			
MBG 491	87.76		87.76	87.76	87.76			
PHYS 101	82.09				82.09			
TURK 101					100.00			
TURK 102					100.00			

Tablo.4.3.2.1. 2023-2024 Akademik Yılı Güz Dönemi Moleküler Biyoloji ve Genetik Lisans Programı Program Çıktıları Performans Oranları Tablosu / ***Table.4.3.2.1.*** *2023-2024 Academic Year Fall Semester Molecular Biology and Genetics Undergraduate Program - Program Outcomes Performance Rates Table*

4.3.2.2. 2023-2024 Akademik Yılı Bahar Dönemi için;

Dersler / *Courses*	Program Çıktıları / *Program Outcomes*							
	a	b	c	d	e	f	g	h
CHEM 101	65.91	65.91						
CHEM 102	72.59	72.59	72.59					
COMD 358			100		100			
CS 115	92.11						92.11	
ENG 101					95			
ENG 102					100			
GE 251						95.12		95.12
HIST 200			84.21		84.21			
HUM 111					100	100		
HUM 112					97.78	97.78		
MATH 101	42.11	42.11	42.11					
MATH 102	55.56	55.56	55.56					
MATH 262	100							
MBG 102	86.54	86.54	86.54	86.54	86.54	86.54		
MBG 223	97.1	97.1	97.1					
MBG 230	100	100		100		100		
MBG 302	98.28	98.28		98.28	98.28	98.28		
MBG 312	100							
MBG 316	100		100		100			
MBG 338	79.66	79.66	79.66		79.66			
MBG 418	100	100	100		100	100	100	
PHYS 101	30				30			
PHYS 102	83.64				83.64			
TURK 101					95			
TURK 102					100			

Tablo.4.3.2.2. 2023-2024 Akademik Yılı Bahar Dönemi Moleküler Biyoloji ve Genetik Lisans Programı Program Çıktıları Performans Oranları Tablosu / ***Table.4.3.2.2.*** *2023-2024 Academic Year Spring Semester Molecular Biology and Genetics Undergraduate Program - Program Outcomes Performance Rates Table*

5. DEĞERLENDİRME / *EVALUATION*

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

In 2023-2024 Fall and Spring semesters, the majority of MBG course program outcomes met expectations, except for MATH 101 and PHYS 101.

At the start of the 2023-2024 Fall semester, it was discovered that MBG 491 Senior Project 1, a mandatory course in the MBG undergraduate curriculum, had been mistakenly omitted from the program outcomes. Administrators added it to the MBG program assessment pool with default assessment settings like "Exam" or "Quiz," which did not align with the course's learning objectives and operational mode. This issue was corrected in 2023-2024 Spring semester by merging these generic assessment categories into a single one labeled "Project" on the syllabus page and in Bilkent SAPS. This adjustment now aligns with the approach senior project mentors use to directly assess student performance.

MBG 291 and MBG 391 Summer Practice 1 and 2 courses, previously included in MBG program assessments in past academic years, have been omitted for the 2023-2024 academic year without prior notice. Initially perceived as an oversight, it was later clarified that this removal was intentional. These courses are creditless and graded on a Pass (S, Satisfactory) or Fail (U, Unsatisfactory) basis, rather than using a quantitatively distinct grading scale. This method could lead to misinterpretation of success ratios during course evaluations.

Courses taken by MBG students during 2023-2024 academic year had not changed significantly in terms of performance assessment matrices from 2022-2023 academic year. All courses in the 2023-2024 Fall semester returned successful performance ratios upon calculations. On the other hand, all but two courses showed success after 2023-2024 Spring semester calculations.

For the first time, courses from 2023-2024 Fall semester of the MBG curriculum that were repeated in the 2023-2024 Spring semester were evaluated in 2023-2024 Spring semester assessments. These courses, which are part of the regular Fall curriculum, include TURK 101 (Turkish 1), HUM 111 (Cultures Civilizations and Ideas 1), and ENG 101 (English and Composition 1). All these courses achieved success in their performance assessments.

In 2023-2024 Spring semester, two core science courses, MATH 101 (Calculus 1) and PHYS 101 (General Physics 1), did not meet performance expectations. These courses are typically part of the mandatory curriculum in the Fall semesters for first (MATH 101) and second-year (PHYS 101) MBG courses but are also offered during the Spring semester. These two foundational courses are mandatory for all engineering and science faculty students and elective for many other programs. They have one of the highest student enrollments among all undergraduate courses at Bilkent University. Because of the large student population, these courses are offered every semester, including summers, with multiple sections and varying total enrollment numbers to accommodate student registration demands. MATH 102 and PHYS 102 are the sequential continuation courses in the Spring semester. As a result, the enrollment numbers for MATH 101 and PHYS 101 vary noticeably between semesters. In 2023-

2024 Fall semester, there were 14 sections offered for both courses, whereas in 2023-2024 Spring semester, there were 5 sections for MATH 101 and 6 sections for PHYS 101. Typically scheduled in the Fall semesters of departmental curricula, these courses see a reduction in both section availability and student enrollment as the academic year progresses into Spring semesters. Further, in Summer semesters, the number of sections for these courses decreases to just one section each.

Given that course performance assessment correlates directly and quantitatively with total student enrollment and the proportion of departmental students among them, the unsatisfactory outcomes for MBG students in these two courses during the 2023-2024 Spring semester are not surprising. For instance, 19 MBG students were enrolled in MATH 101 for the 2023-2024 Spring semester, whereas there were 46 students enrolled at the start of the 2023-2024 Fall semester, which was more than double the number observed in the Spring semester. Omitting the F grades, the number of MBG students graded at the end of semesters reduced to 36 for 2023-2024-Fall semester and to 8 for 2023-2024 Spring semester, creating a more than 4-fold MBG student count difference in-between. Consequently, the lack of success among MBG students in these two courses becomes more apparent when both the total student enrollment and the MBG student percentage among them significantly decrease in the 2023-2024 Spring semester.

It is evident that the performance success rates for MATH 101 and PHYS 101 in 2023-2024 Fall semester were calculated at 78% and 82%, respectively. However, these rates dropped to 42% and 30% for the 2023-2024 Spring semester, respectively. It is important to note that the course contents, evaluation criteria, and methods for calculating performance ratios have remained largely unchanged over the past academic years.

As a result, any variation in success rates can be directly compared between semesters within an academic year and across different years. The primary distinguishing factor is the number of students and individual differences in their performance, which can significantly impact course outcomes. Due to the smaller fraction of MBG students taking these courses in Spring semesters and the overall decrease in enrollment numbers, there may have been a gradual decline in MBG student performance over recent years. However, this decline may have only become noticeable in 2023-2024 Spring semester when their performance was factored into the overall outcomes.

Furthermore, MBG students enrolled in these courses during Spring semesters are typically either irregular students or students retaking the courses due to previous failures or low grades. It's plausible that the average performance of these MBG students may be lower overall, a factor that may have been previously overlooked.

If Fall semester courses are consistently factored into Spring semester performance assessments from now on, it will reveal whether there is a pattern of declining performance for these two courses between semesters, as evidenced by their future success ratios.

If this above mentioned trend of decline in calculated student success persists for these two courses between semesters, we may propose to the respective departments offering these courses an implementation of diagnostic assessments at the start of each course to identify

specific areas of weakness among the students. Subsequently, departments may consider enhancing support mechanisms such as tutorials, workshops, or tailored online resources to more vigorously address these deficiencies and improve student performance in those areas.

The student body diversity in MBG 110, Introduction to Modern Biology, has significantly broadened. Now included in the Science Core Elective pool for several social science curricula, students from diverse programs such as Fine Arts (FA) or Performing Arts (THEA) are joining others from disciplines like Translation and Interpretation (TRIN), Management (MAN), Economics (ECON), International Relations (IR), and more. While MBG does not calculate the performance of this course, as it is not offered to MBG students, efforts have been made to adjust exam question difficulties to accommodate the educational diversity of the student cohort. The course grading remains based on a curved approach, which effectively accommodates a broad range of letter grades. Within the Science Core Elective pool, the MBG course's Grade Point Average (GPA) falls between offerings from the Physics and Chemistry departments, such as PHYS 180 and CHEM 111, indicating a moderate level of difficulty and success. As enrollment in the course continues to grow, additional practical adjustments will be explored.

5.2. EĞİTİM AMAÇLARININ DEĞERLENDİRİLMESİ / *EVALUATION OF EDUCATIONAL OBJECTIVES*

MBG department also evaluated the class averages of MBG courses from the 2018-2023 academic years. As a department, the combined grade point average for all courses during this period is 2.946, meeting the University's realistic expectations. However, some MBG course class averages exceed 3.0, with some reaching as high as 3.58, suggesting exceptionally high performance in those courses. This matter will be reviewed and addressed in the 2024-2025 academic year.

The turnover rate among MBG faculty has been dynamic, necessitating adaptations in course assignments as new faculty members join the department. For example, recently joined faculty Assistant Professor Volkan Yazar has started giving both MBG 101 (Biology 1) and MBG 110 (Introduction to Modern Biology) courses. The introduction of additional elective courses will also be influenced by future developments in the department.

The Higher Education Council of the Turkish Republic previously mandated that institutions should incorporate a minimum of 25% elective courses in their departmental curricula. At present, elective courses make up 18% of the MBG undergraduate curriculum. In response to these guidelines, the MBG department held discussions and subsequently a meeting to modify the undergraduate curriculum accordingly. As part of this adjustment, it has been proposed to reclassify two MBG courses, MBG 230 (Experimental Approaches in Molecular and Cellular Biology) and MBG 418 (Genomics), from MUST to ELECTIVE status. These courses will continue to maintain their current content and will be offered as electives starting from the next academic year. The enrollment capacity for these and other elective courses will be closely monitored to assess if further adjustments are necessary or not.

We recently learned that a few universities in Europe have begun requiring completion of a Bachelor's Thesis as part of their graduate school application criteria. To explore the benefits of integrating such a thesis requirement, our department organized a meeting where we reviewed examples from various departments and institutions. Based on our findings, we propose integrating the Bachelor's Thesis requirement through MBG 491 and MBG 492 Senior Project 1 and 2 courses as an optional track. Under this proposal, students interested in obtaining this qualification will choose to undertake thesis preparation and defend their work after fulfilling requirements set by the department, their project mentor, and the thesis committee. Upon successful defense, students will be awarded this official degree, enhancing their eligibility for select European graduate school applications.

During the 2022-2023 Summer semester, Bilkent University initiated a plan to establish a system for submitting summer internship documents for advance approval to fulfill mandatory internship course requirements. In 2023-2024 Spring semester, departments once again requested input on the specific details of this system.

The MBG undergraduate program includes two mandatory internship courses, MBG 291 and 391 Summer Practice 1 and 2, which assess internships upon their completion. Currently, internships are evaluated based on predefined criteria within these courses after they have concluded. However, if implemented, the new system would require internship documents to be submitted for initial validity approval before the internship begins. During the system's development, it was noted that this approach may be more suitable for company internships than academic internships, which are more common for MBG students. Feedback addressing this concern was provided during the solicitation process. As the new system has not yet been implemented, it is anticipated that the internship document pre-approval system will commence starting from the 2024-2025 Summer semester.

To gain a comprehensive understanding of the outcomes from three decades of MBG education, the MBG department has recently updated the current employment positions and specific job descriptions of MBG alumni. This effort involved gathering the most current and accurate information on thousands of alumni, including those dating back to the earliest graduates, through various tracking sources. An analysis of MBG graduate employment positions highlights their distribution across a broad spectrum of job categories, such as academia, private sector, and government positions, as well as domestic and international employment across various countries. The data shows that a significant portion of graduates are employed in academic roles, aligning closely with the goals of the MBG undergraduate program and its educational objectives.

Bilkent University decided to launch a summer camp in the 2023-2024 Summer semester aimed at high school students who have completed grades 9 to 11. Scheduled for July and spanning approximately two weeks, this first camp includes participation from the MBG department. Several MBG faculty members have developed courses that explore their respective fields of study and address current biological challenges facing our world. These courses are designed to engage and entertain prospective Bilkent University and/or MBG students. The primary goal of this high school-oriented training program is to broaden

students' perspectives on biological sciences and assist them in making well-informed decisions regarding their college and department choices.

Swedish scientist Prof. Thors Hans Hansson, Chairman of the Nobel Committee for Physics (2021) from the Department of Physics at Stockholm University visited Bilkent University for a sabbatical in the 2023-2024 Fall semester. His spouse, Dr. Shohreh Maleki, a retired molecular biologist from Karolinska Institute accompanied him during this time. Both Prof. Hansson and Dr. Maleki visited the MBG department for a meeting with MBG faculty. During this meeting, Prof. Hansson and Dr. Maleki shared their research expertise and personal experiences while MBG faculty also discussed their ongoing research with them in a mutually informative session. Later in the 2023-2024 Fall semester, the Faculty of Science organized a Nobel prize themed activity called "Bilkent Nobel Day 2023: A culture of Creativity" for the entire university community following the announcements of 2023 Nobel laureates. This activity was aimed at introducing students to the exciting world of groundbreaking scientific discoveries while providing information about related study fields that resulted in Nobel prizes. Various faculty members from Bilkent University gave short talks about prominent research topics that resulted with Nobel awards and connected these studies with their own related work. Prof. Thors Hans Hansson also gave a brief talk about the Nobel laureate selection procedure. The activity also included a live streaming talk of a Bilkent University graduate, Ulugbek Barotov, who works in the laboratory of the 2023 Nobel Laureate in Chemistry, Prof. Mountie G. Bawendi, from the Massachusetts Institute of Technology. The event concluded with a question and answer session involving attendees.

The highlight of the 2023-2024 academic year in terms of recognition of the MBG department's achievements took place in the 2023-2024 Fall semester. The MBG department received a special award: American Society of Human Genetics (ASHG) bestowed the MBG department the ASHG Thought Leadership Award on the 75th anniversary of ASHG's foundation. ASHG is a well known society for human genetic diseases and human genomic studies and hosts the largest international conference for genetic conference every year. ASHG awarded the Bilkent MBG department based on its past accomplishments in human genetic disease areas such as Prader-Willi syndrome, polycystic ovary syndrome, and obesity. In the 2023-2024 Fall semester, MBG department head Prof. Tayfun Özçelik received the ASHG Thought Leadership Award during the ASHG annual meeting in the United States of America on behalf of the MBG department. In conjunction with this award, a documentary outlining the accomplishments of the MBG department had been recorded prior to the award ceremony. A production team arranged by ASHG visited Bilkent University and MBG department and shot a short documentary. The focus of the documentary was Bilkent University's and its MBG department's emphasis on education in raising future scientists as well as MBG's scientific accomplishments and current scientific projects in human genetic disease areas and the ongoing Turkish Variome Project research. This award and the related documentary which was later made available online by ASHG TV acknowledges Bilkent MBG department's scientific accomplishments internationally and raises its recognition to the same level of world's best-known institutions. The documentary produced as a result of this award by the production team arranged by ASHG can be viewed from the following link online: https://youtu.be/GmCBsZe_kXQ?si=OJj-2igGQeyV5twv