

2025-2026 AKADEMİK  
YILI / Academic Year

# EĞİTİMDE KALİTE GÜVENCESİ GÜZ DÖNEMİ RAPORU

*QUALITY ASSURANCE IN  
EDUCATION FALL SEMESTER  
REPORT*

**FEN FAKÜLTESİ**  
*FACULTY OF SCIENCES*

**MOLEKÜLER BİYOLOJİ VE GENETİK  
LİSANS PROGRAMI (MBG)**  
*MOLECULAR BIOLOGY AND GENETICS  
UNDERGRADUATE PROGRAM (MBG)*



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**FEN FAKÜLTESİ / FACULTY OF SCIENCES**  
**MOLEKÜLER BİYOLOJİ VE GENETİK LİSANS**  
**PROGRAMI - MBG / MOLECULAR BIOLOGY AND GENETICS**  
**UNDERGRADUATE PROGRAM - MBG**

**1. LİSANS PROGRAMI / UNDERGRADUATE PROGRAM**

**1.1. MÜFREDAT / CURRICULUM**

Birinci Yıl / First Year					
Güz Dönemi / Fall Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
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
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
	Teknik Seçmeli Ders / Technical Elective			3	
Bahar Dönemi / Spring Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
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	
	Sınırlı Seçmeli Ders / Restricted 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
	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	

## 2. PROGRAM ÇIKTILARI / PROGRAM OUTCOMES

### 2.1. 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.*

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

Dersler / Courses	Program Çıktıları / Program Outcomes								Dersler / Courses	Program Çıktıları / Program Outcomes							
	a	b	c	d	e	f	g	h		a	b	c	d	e	f	g	h
CHEM 101	✓	✓							MBG 223	✓	✓	✓					
CHEM 102	✓	✓	✓						MBG 230	✓	✓		✓		✓		
CHEM 233	✓								MBG 291		✓	✓	✓	✓	✓		
COMD 358			✓		✓				MBG 301	✓			✓	✓	✓		
CS 115	✓						✓		MBG 302	✓	✓		✓	✓	✓		
ENG 101					✓				MBG 311	✓	✓						
ENG 102					✓				MBG 312	✓							
GE 100						✓		✓	MBG 316	✓		✓		✓			
GE 250						✓		✓	MBG 324	✓	✓	✓	✓	✓	✓	✓	
GE 251						✓		✓	MBG 338	✓	✓	✓		✓			
HIST 200			✓		✓				MBG 391		✓	✓	✓	✓	✓		
HUM 111					✓	✓			MBG 416				✓	✓			
HUM 112					✓	✓			MBG 418	✓	✓	✓		✓	✓	✓	
MATH 101	✓	✓	✓						MBG 491	✓		✓	✓	✓			
MATH 102	✓	✓	✓						PHYS 101	✓				✓			
MATH 262	✓								PHYS 102	✓				✓			
MBG 101	✓	✓	✓	✓	✓	✓	✓		TURK 101					✓			
MBG 102	✓	✓	✓	✓	✓	✓			TURK 102					✓			
MBG 210	✓	✓	✓	✓													

**Tablo.2.2.** Moleküler Biyoloji ve Genetik Lisans Programı - Program Çıktıları ve Dersler Tablosu / *Table.2.2. Molecular Biology and Genetics Undergraduate Program - Program Outcomes and Courses Table*

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

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

Course Code	Program Outputs	Lab 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	Lab work	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade							
CHEM 102	a	50	50	100	M3	50							
	Program Outputs	Lab work	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade							
	b	50	50	100	M3	50							
	Program Outputs	Lab work	Final	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										

Course Code	Program Outputs	Homework	Homework	Homework	Homework	Midterm	Project	Term project	Presentations	In-class participation	Total Contribution	Qualification Calculation Method	
COMD 358	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 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	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	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
MATH 101	a	30	30	40	100	M1	40	50					
	Program Outputs	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	b	30	30	40	100	M1	40	50					
	Program Outputs	Midterm	Midterm	Final	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	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	Midterm:Essay /written	Homework	Homework	Quiz	Quiz	Lab work	In-class attendance	Final:Essay/written	Total Contribution	Qualification Calculation Method	
MBG 102	a	20	20	1	1	1	1	25	1	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		50	50										

Course Code	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Homework	Homework	Quiz	Quiz	Lab work	In-class attendance	Final:Essay/ written	Total Contribution	Qualification Calculation Method	
MBG 102	b	20	20	1	1	1	1	25	1	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		50	50										
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Homework	Homework	Quiz	Quiz	Lab work	In-class attendance	Final:Essay/ written	Total Contribution	Qualification Calculation Method	
	c	20	20	1	1	1	1	25	1	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		50	50										
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Homework	Homework	Quiz	Quiz	Lab work	In-class attendance	Final:Essay/ written	Total Contribution	Qualification Calculation Method	
	d	20	20	1	1	1	1	25	1	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		50	50										
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Homework	Homework	Quiz	Quiz	Lab work	In-class attendance	Final:Essay/ written	Total Contribution	Qualification Calculation Method	
	e	20	20	1	1	1	1	25	1	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		50	50										
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Homework	Homework	Quiz	Quiz	Lab work	In-class attendance	Final:Essay/ written	Total Contribution	Qualification Calculation Method	
	f	20	20	1	1	1	1	25	1	30	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		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	Final	Lab exam	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 exam	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 exam	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	d	30	40	20	10	100	M1	50	50	
	Program Outputs	Midterm	Final	Lab exam	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	e	30	40	20	10	100	M1	50	50	
	Program Outputs	Midterm	Final	Lab exam	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	Midterm:Essay /written	Final:Essay/ written	Oral presentation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 312	a	20	20	50	10	100	M1	50	50	

Course Code	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final	Homework	In-class participation	Quiz	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 316	a	20	20	30	10	10	5	5	100	M1	50	50	
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final	Homework	In-class participation	Quiz	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	c	20	20	30	10	10	5	5	100	M1	50	50	
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final	Homework	In-class participation	Quiz	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	e	20	20	30	10	10	5	5	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	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	20	20	10	10	20	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	20	20	10	10	20	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: Öğrencilerin ilgili program çıktısını kazanacağı öngörülen minimum not / *G: Minimum grade at which students attain the relevant program outcome*
- T: Dersin ilgili program çıktısının kazanımı için yeterli sayılacağı eşik öğrenci yüzdesi / *T: Threshold percentage of students for the course to be considered sufficient for the attainment of the relevant program outcome*
- 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 department*

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

Program Çıktısı/ Program Outcome	Yeterlilik Hesaplama Yöntemi/ Method	(Ortalama) Yeterlilik Notu/ Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı/ Number of Students (All)	Toplam Dept. Öğrenci Sayısı/ Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
<b>CHEM 101 - Kimyanın Temelleri I / CHEM 101 - Principles of Chemistry I</b>													
a	M3	50		29	17	66.16	65.28	26	16	89.66	94.12	Yeterli ✓ / Sufficient ✓	65.28
b	M3	50		29	17	66.16	65.28	26	16	89.66	94.12	Yeterli ✓ / Sufficient ✓	65.28
<b>CHEM 102 - Kimyanın Temelleri II / CHEM 102 - Principles of Chemistry II</b>													
a	M3	50		90	54	76.12	74.72	90	54	100	100	Yeterli ✓ / Sufficient ✓	74.72
b	M3	50		90	54	76.12	74.72	90	54	100	100	Yeterli ✓ / Sufficient ✓	74.72
c	M3	50		90	54	76.12	74.72	90	54	100	100	Yeterli ✓ / Sufficient ✓	74.72
<b>COMD 358 - Profesyonel İletişim / COMD 358 - Professional Communication</b>													
c	M1	60	70	392	41	84.56	88.36	388	41	98.98	100	Yeterli ✓ / Sufficient ✓	100
e	M1	60	70	392	41	84.56	88.36	388	41	98.98	100	Yeterli ✓ / Sufficient ✓	100
<b>CS 115 - Python ile Programlamaya Giriş / CS 115 - Introduction to Programming in Python</b>													
a	M1	40	75	248	21	69.08	59.82	241	20	97.18	95.24	Yeterli ✓ / Sufficient ✓	95.24
g	M1	40	75	248	21	69.08	59.82	241	20	97.18	95.24	Yeterli ✓ / Sufficient ✓	95.24
<b>ENG 101 - İngilizce ve Kompozisyon I / ENG 101 - English and Composition I</b>													
e	M1	70	75	649	13	83.22	83.25	605	13	93.22	100	Yeterli ✓ / Sufficient ✓	100
<b>ENG 102 - İngilizce ve Kompozisyon II / ENG 102 - English and Composition II</b>													
e	M1	70	70	1495	47	86.43	88.79	1456	47	97.39	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
<b>GE 100 - Üniversite Hayatına Giriş / GE 100 - Orientation</b>													
f	M1	12	80	499	12	96.41	98.75	499	12	100	100	Yeterli ✓ / Sufficient ✓	100
h	M1	12	80	499	12	96.41	98.75	499	12	100	100	Yeterli ✓ / Sufficient ✓	100
<b>GE 251 - Üniversite Etkinlik Programı II / GE 251 - Collegiate Activities Program II</b>													
f	M1	70	70	1344	35	92.86	98.14	1244	35	92.56	100	Yeterli ✓ / Sufficient ✓	100
h	M1	70	70	1344	35	92.86	98.14	1244	35	92.56	100	Yeterli ✓ / Sufficient ✓	100
<b>HIST 200 - Türkiye Tarihi / HIST 200 - History of Turkey</b>													
c	M1	70	75	959	6	93.22	94.45	949	6	98.96	100	Yeterli ✓ / Sufficient ✓	100
e	M1	70	75	959	6	93.22	94.45	949	6	98.96	100	Yeterli ✓ / Sufficient ✓	100
<b>HUM 111 - Kültürler, Medeniyetler ve Düşünceler I / HUM 111 - Cultures Civilizations and Ideas I</b>													
e	M1	60	75	472	21	82.29	86.05	472	21	100	100	Yeterli ✓ / Sufficient ✓	100
f	M1	60	75	472	21	82.29	86.05	472	21	100	100	Yeterli ✓ / Sufficient ✓	100
<b>HUM 112 - Kültürler, Medeniyetler ve Düşünceler II / HUM 112 - Cultures Civilizations and Ideas II</b>													
e	M1	60	75	1010	51	85.5	88.61	1006	51	99.6	100	Yeterli ✓ / Sufficient ✓	100
f	M1	60	75	1010	51	85.5	88.61	1006	51	99.6	100	Yeterli ✓ / Sufficient ✓	100
<b>MATH 101 - Matematik I / MATH 101 - Calculus I</b>													
a	M1	40	50	230	10	59.11	43.83	178	5	77.39	50	Yeterli ✓ / Sufficient ✓	50
b	M1	40	50	230	10	59.11	43.83	178	5	77.39	50	Yeterli ✓ / Sufficient ✓	50
c	M1	40	50	230	10	59.11	43.83	178	5	77.39	50	Yeterli ✓ / Sufficient ✓	50

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
<b>MATH 102 - Matematik II / MATH 102 - Calculus II</b>													
a	M1	40	50	683	55	58.29	47.07	557	38	81.55	69.09	Yeterli ✓ / Sufficient ✓	69.09
b	M1	40	50	683	55	58.29	47.07	557	38	81.55	69.09	Yeterli ✓ / Sufficient ✓	69.09
c	M1	40	50	683	55	58.29	47.07	557	38	81.55	69.09	Yeterli ✓ / Sufficient ✓	69.09
<b>MATH 262 - İstatistik Yöntemleri II / MATH 262 - Statistical Methodology</b>													
a	M1	20	75	64	63	67.51	67.54	64	63	100	100	Yeterli ✓ / Sufficient ✓	100
<b>MBG 102 - Biyoloji II / MBG 102 - Biology II</b>													
a	M1	50	50	63	61	77.3	77.54	63	61	100	100	Yeterli ✓ / Sufficient ✓	100
b	M1	50	50	63	61	77.3	77.54	63	61	100	100	Yeterli ✓ / Sufficient ✓	100
c	M1	50	50	63	61	77.3	77.54	63	61	100	100	Yeterli ✓ / Sufficient ✓	100
d	M1	50	50	63	61	77.3	77.54	63	61	100	100	Yeterli ✓ / Sufficient ✓	100
e	M1	50	50	63	61	77.3	77.54	63	61	100	100	Yeterli ✓ / Sufficient ✓	100
f	M1	50	50	63	61	77.3	77.54	63	61	100	100	Yeterli ✓ / Sufficient ✓	100
<b>MBG 223 - Moleküler Genetik / MBG 223 - Molecular Genetics</b>													
a	M1	50	50	53	53	77.01	77.01	53	53	100	100	Yeterli ✓ / Sufficient ✓	100
b	M1	50	50	53	53	77.01	77.01	53	53	100	100	Yeterli ✓ / Sufficient ✓	100
c	M1	50	50	53	53	77.01	77.01	53	53	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
<b>MBG 302 - Moleküler Hücre Biyolojisi II / MBG 302 - Molecular Biology of the Cell II</b>													
a	M1	50	50	64	64	66.63	66.63	58	58	90.63	90.63	Yeterli ✓ / Sufficient ✓	90.63
b	M1	50	50	64	64	66.63	66.63	58	58	90.63	90.63	Yeterli ✓ / Sufficient ✓	90.63
d	M1	50	50	64	64	66.63	66.63	58	58	90.63	90.63	Yeterli ✓ / Sufficient ✓	90.63
e	M1	50	50	64	64	66.63	66.63	58	58	90.63	90.63	Yeterli ✓ / Sufficient ✓	90.63
f	M1	50	50	64	64	66.63	66.63	58	58	90.63	90.63	Yeterli ✓ / Sufficient ✓	90.63
<b>MBG 312 - Biyokimya II / MBG 312 - Biochemistry II</b>													
a	M1	50	50	67	66	77.07	77.32	67	66	100	100	Yeterli ✓ / Sufficient ✓	100
<b>MBG 316 - Fizyoloji / MBG 316 - Physiology</b>													
a	M1	50	50	80	74	80.89	80.98	80	74	100	100	Yeterli ✓ / Sufficient ✓	100
c	M1	50	50	80	74	80.89	80.98	80	74	100	100	Yeterli ✓ / Sufficient ✓	100
e	M1	50	50	80	74	80.89	80.98	80	74	100	100	Yeterli ✓ / Sufficient ✓	100
<b>MBG 338 - Mikrobiyoloji / MBG 338 - Microbiology</b>													
a	M1	50	50	57	57	70.17	70.17	55	55	96.49	96.49	Yeterli ✓ / Sufficient ✓	96.49
b	M1	50	50	57	57	70.17	70.17	55	55	96.49	96.49	Yeterli ✓ / Sufficient ✓	96.49
c	M1	50	50	57	57	70.17	70.17	55	55	96.49	96.49	Yeterli ✓ / Sufficient ✓	96.49
e	M1	50	50	57	57	70.17	70.17	55	55	96.49	96.49	Yeterli ✓ / Sufficient ✓	96.49

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
<b>PHYS 101 - Genel Fizik I / PHYS 101 - General Physics I</b>													
a	M1	50	50	257	8	64.34	56.46	222	6	86.38	75	Yeterli ✓ / Sufficient ✓	75
e	M1	50	50	257	8	64.34	56.46	222	6	86.38	75	Yeterli ✓ / Sufficient ✓	75
<b>PHYS 102 - Genel Fizik II / PHYS 102 - General Physics II</b>													
a	M1	50	50	608	57	67.25	59.73	551	50	90.63	87.72	Yeterli ✓ / Sufficient ✓	87.72
e	M1	50	50	608	57	67.25	59.73	551	50	90.63	87.72	Yeterli ✓ / Sufficient ✓	87.72
<b>TURK 101 - Türkçe I / TURK 101 - Turkish I</b>													
e	M1	70	60	601	14	86.62	90.15	587	14	97.67	100	Yeterli ✓ / Sufficient ✓	100
<b>TURK 102 - Türkçe II / TURK 102 - Turkish II</b>													
e	M1	70	60	1446	43	88.83	90.98	1431	42	98.96	97.67	Yeterli ✓ / Sufficient ✓	97.67

3.3. PERFORMANS ÖLÇÜM SONUÇLARI / PERFORMANCE MEASUREMENT RESULTS

3.3.1. PROGRAM ÇIKTILARI PERFORMANS TABLOSU / PROGRAM OUTCOMES PERFORMANCE TABLE

Dersler / Courses	Program Çıktıları / Program Outcomes							
	a	b	c	d	e	f	g	h
CHEM 101	✓	✓						
CHEM 102	✓	✓	✓					
COMD 358			✓		✓			
CS 115	✓						✓	
ENG 101					✓			
ENG 102					✓			
GE 100						✓		✓
GE 251						✓		✓
HIST 200			✓		✓			
HUM 111					✓	✓		
HUM 112					✓	✓		
MATH 101	✓	✓	✓					
MATH 102	✓	✓	✓					
MATH 262	✓							
MBG 102	✓	✓	✓	✓	✓	✓		
MBG 223	✓	✓	✓					
MBG 302	✓	✓		✓	✓	✓		
MBG 312	✓							
MBG 316	✓		✓		✓			
MBG 338	✓	✓	✓		✓			
PHYS 101	✓				✓			
PHYS 102	✓				✓			
TURK 101					✓			
TURK 102					✓			

Tablo.3.3.1. 2025-2026 Akademik Yılı Güz Dönemi Moleküler Biyoloji ve Genetik Lisans Programı Program Çıktıları Performans Tablosu / Table.3.3.1. 2025-2026 Academic Year Fall Semester Molecular Biology and Genetics Undergraduate Program - Program Outcomes Performance Table

**3.3.2. PROGRAM ÇIKTILARI PERFORMANS ORANLARI / PROGRAM OUTCOMES PERFORMANCE RATES**

Dersler / Courses	Program Çıktıları / Program Outcomes							
	a	b	c	d	e	f	g	h
CHEM 101	65.3	65.3						
CHEM 102	74.7	74.7	74.7					
COMD 358			100		100			
CS 115	95.2						95.2	
ENG 101					100			
ENG 102					100			
GE 100						100		100
GE 251						100		100
HIST 200			100		100			
HUM 111					100	100		
HUM 112					100	100		
MATH 101	50	50	50					
MATH 102	69.1	69.1	69.1					
MATH 262	100							
MBG 102	100	100	100	100	100	100		
MBG 223	100	100	100					
MBG 302	90.6	90.6		90.6	90.6	90.6		
MBG 312	100							
MBG 316	100		100		100			
MBG 338	96.5	96.5	96.5		96.5			
PHYS 101	75				75			
PHYS 102	87.7				87.7			
TURK 101					100			
TURK 102					97.7			

**Tablo.3.3.2.** 2025-2026 Akademik Yılı Güz Dönemi Moleküler Biyoloji ve Genetik Lisans Programı Program Çıktıları Performans Oranları Tablosu / *Table.3.3.2. 2025-2026 Academic Year Fall Semester Molecular Biology and Genetics Undergraduate Program - Program Outcomes Performance Rates Table*