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

MÜHENDİSLİK FAKÜLTESİ
FACULTY OF ENGINEERING

MAKİNE MÜHENDİSLİĞİ LİSANS
PROGRAMI (ME)
*MECHANICAL ENGINEERING
UNDERGRADUATE PROGRAM (ME)*



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MÜHENDİSLİK FAKÜLTESİ / FACULTY OF ENGINEERING
MAKİNE MÜHENDİSLİĞİ LİSANS PROGRAMI - ME /
MECHANICAL ENGINEERING UNDERGRADUATE PROGRAM - ME

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
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
ME 101	Makine Mühendisliğinin Temelleri / Fundamentals of Mechanical Engineering	2	2	2	3,5
PHYS 101	Genel Fizik I / General Physics I	3	3	4	6,5
TURK 101	Türkçe I / Turkish I	0	0	2	3,5
Bahar Dönemi / Spring Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
ENG 102	İngilizce ve Kompozisyon II / English and Composition II	5	0	3	5
MATH 102	Matematik II / Calculus II	4	0	4	6,5
ME 102	Sistem Mühendisliğine Giriş / Introduction to Systems Engineering	2	2	3	5
PHYS 102	Genel Fizik II / General Physics II	3	3	4	6,5
TURK 102	Türkçe II / Turkish II	0	0	2	3,5
İkinci Yıl / Second Year					
Güz Dönemi / Fall Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
CS 115	Python ile Programlamaya Giriş / Introduction to Programming in Python	3	4	4	6,5
GE 250	Üniversite Etkinlik Programı I / Collegiate Activities Program I	0	0	0	1
HUM 111	Kültürler, Medeniyetler ve Düşünceler I / Cultures Civilizations and Ideas I	3	0	3	5
MATH 220	Doğrusal Cebir / Linear Algebra	3	0	3	5
ME 211	Termoakışkanlar Mühendisliği I / Thermo-Fluids Engineering I	4	2	4	6,5
ME 231	Mekanik ve Malzeme I / Mechanics and Materials I	4	2	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
HUM 112	Kültürler, Medeniyetler ve Düşünceler II / Cultures Civilizations and Ideas II	3	0	3	5
MATH 240	Türevsel Denklemler / Differential Equations	3	0	3	5
ME 212	Termoakışkanlar Mühendisliği II / Thermo-Fluids Engineering II	4	2	4	6,5
ME 232	Mekanik ve Malzeme II / Mechanics and Materials II	4	2	4	6,5

Üçüncü Yıl / Third Year					
Güz Dönemi / Fall Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
CHEM 201	Malzeme Bilimi ve Teknolojisi / Materials Science and Technology	3	0	3	5
ENG 401	Teknik Rapor Yazma ve Sunum / Technical Report Writing and Presentation	3	0	3	5
MATH 230	Mühendisler İçin Olasılık ve İstatistik / Probability and Statistics for Engineers	3	0	3	5
ME 299	Yaz Stajı I / Summer Practice I	0	0	0	7
ME 341	Dinamik ve Kontrol I / Dynamics and Control I	4	0	4	6,5
ME 371	Ölçme ve Değerlendirme / Measurement and Instrumentation	2	2	3	5
	Makine Mühendisliği Seçmeli Dersi / Mechanical Engineering 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
HIST 200	Türkiye Tarihi / History of Turkey	3	0	4	6,5
MBG 110	Modern Biyolojiye Giriş / Introduction to Modern Biology	3	0	3	5
ME 342	Dinamik ve Kontrol II / Dynamics and Control II	4	0	4	6,5
ME 381	Tasarım ve İmalat / Design and Manufacturing	3	0	3	5
ME 384	Mekatronik Sistemler / Mechatronic Systems	3	0	3	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
GE 301	Bilim, Teknoloji ve Toplum / Science Technology and Society	2	0	2	3,5
ME 399	Yaz Stajı II / Summer Practice II	0	0	0	7
	Temel Sanat Seçmeli Dersi / Arts Core Elective			3	
	Mühendislik Seçmeli Dersi / Engineering Elective			3	
	Makine Mühendisliği Seçmeli Dersi (2) / Mechanical Engineering Elective (2)			6	
	Proje Seçmeli Dersi I / Project Elective I			3	
Bahar Dönemi / Spring Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
	Seçmeli Ders / Elective			3	
	Matematik/Fen Bilimleri Seçmeli Dersi / Mathematics/Science Elective			3	
	Makine Mühendisliği Geniş Seçmeli Dersi / Mechanical Engineering Breadth Elective			3	
	Makine Mühendisliği Seçmeli Dersi / Mechanical Engineering Elective			3	
	Proje Seçmeli Dersi II / Project Elective II			3	
	Temel Sosyal Bilimler Seçmeli Dersi / Social Science Core Elective			3	

2. PROGRAM ÇIKTILARI / PROGRAM OUTCOMES

2.1. PROGRAM ÇIKTILARININ LİSTESİ / LIST OF PROGRAM OUTCOMES

- a. Mühendislik, fen bilimleri ve matematik ilkelerini uygulayarak karmaşık mühendislik problemlerini tanımlama, formüle etme ve çözme becerisine sahiptir. / *An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.*
- b. Kamu sağlığı, güvenliği ve refahının yanı sıra küresel, kültürel, sosyal, çevresel ve ekonomik faktörleri de dikkate alarak belirlenen ihtiyaçları karşılayacak çözümler üretmek için mühendislik tasarımını uygulama becerisine sahiptir. / *An ability to identify engineering design to produce solutions that meet specified needs with consideration of public health, safety and welfare, as well as global, cultural, social, environmental, and economic factors.*
- c. Çeşitli kitlelerle etkili bir şekilde iletişim kurabilme becerisine sahiptir. / *An ability to communicate effectively with a range of audiences.*
- d. Mühendislik pozisyonlarında etik ve profesyonel sorumlulukları tanıma ve mühendislik çözümlerinin küresel, ekonomik, çevresel ve toplumsal bağlamlardaki etkisini dikkate alması gereken bilinçli kararlar verme becerisine sahiptir. / *An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.*
- e. Tüm üyeleri ile birlikte, liderlik sağlayan, işbirlikçi ve kapsayıcı bir ortam yaratan, hedefler belirleyen, görevleri planlayan ve hedeflere ulaşan bir ekipte etkili bir şekilde çalışabilme becerisine sahiptir. / *An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.*
- f. Uygun deneyler geliştirme ve yürütme, verileri analiz etme ve yorumlama ve tüm bunlardan sonuç çıkarmak için mühendislik yargısını kullanma becerisine sahiptir. / *An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions.*
- g. Uygun öğrenme stratejilerini kullanarak gerektiğinde yeni bilgi edinme ve uygulama becerisine sahiptir. / *An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.*
- h. Öğrenciler, derslerin yanı sıra çeşitli ve yaratıcı, sanatsal, kültürel, sportif ve entelektüel faaliyetlere katılarak kampüs hayatından daha fazla faydalanırlar. / *Take advantage of the campus life where students are engaged in diversity, creativity and commitment outside coursework through artistic, cultural, sportive and intellectual activities.*

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

Dersler / Courses	Program Çıktıları / Program Outcomes								Dersler / Courses	Program Çıktıları / Program Outcomes							
	a	b	c	d	e	f	g	h		a	b	c	d	e	f	g	h
CHEM 201	✓								ME 101	✓				✓			
CS 115	✓								ME 102			✓		✓			
ENG 101			✓					✓	ME 211	✓					✓		
ENG 102			✓					✓	ME 212	✓					✓		
ENG 401			✓					✓	ME 231	✓					✓		
GE 100			✓	✓				✓	ME 232	✓		✓			✓		
GE 250			✓					✓	ME 299	✓		✓	✓			✓	
GE 251			✓					✓	ME 341	✓							
GE 301				✓	✓			✓	ME 342	✓							
HIST 200			✓		✓			✓	ME 371	✓				✓	✓		
HUM 111			✓					✓	ME 381	✓	✓						
HUM 112			✓					✓	ME 384		✓			✓	✓		
MATH 101	✓		✓		✓				ME 399	✓		✓	✓				✓
MATH 102	✓		✓		✓				PHYS 101	✓	✓			✓			✓
MATH 220	✓								PHYS 102	✓	✓			✓			✓
MATH 230	✓								TURK 101			✓					✓
MATH 240	✓								TURK 102			✓					✓
MBG 110	✓																

Tablo.2.2. Makine Mühendisliği Lisans Programı - Program Çıktıları ve Dersler Tablosu / *Table.2.2. Mechanical Engineering Undergraduate Program - Program Outcomes and Courses Table*

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

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

Course Code	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
CHEM 201	a	30	30	40	100	M1	50	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				
Course Code	Program Outputs	Academic Essay 1	Essay	Oral Presentation	Student Led Discussion	Academic Summary and Critical Response Task	Self-progress Reflection Task	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
ENG 101	c	20	25	8	7	10	5	25	100	M1	70	75
	Program Outputs	Academic Essay 1	Essay	Oral Presentation	Student Led Discussion	Academic Summary and Critical Response Task	Self-progress Reflection Task	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	20	25	8	7	10	5	25	100	M1	70	75
Course Code	Program Outputs	Library Skills Task	Academic Essay	Oral Presentation	Research Paper Outline	Research essay	Interviews	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
ENG 102	c	5	20	20	10	30	15	100	M1	70	70	
	Program Outputs	Library Skills Task	Academic Essay	Oral Presentation	Research Paper Outline	Research essay	Interviews	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	5	20	20	10	30	15	100	M1	70	70	

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

Course Code	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
GE 301	d	30	25	35	10	100	M1	45	60	
	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	e	30	25	35	10	100	M1	45	60	
	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	30	25	35	10	100	M1	45	60	
Course Code	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
HIST 200	c	10	60	30	100	M1	70	75		
	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	e	10	60	30	100	M1	70	75		
	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	g	10	60	30	100	M1	70	75		
Course Code	Program Outputs	Quizzes	Course Project	In-class participation	Final Examination	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
HUM 111	c	30	30	10	30	100	M1	60	75	
	Program Outputs	Quizzes	Course Project	In-class participation	Final Examination	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	30	30	10	30	100	M1	60	75	
Course Code	Program Outputs	Quizzes	In-class participation	Final:Essay/written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
HUM 112	c	30	10	30	30	100	M1	60	75	
	Program Outputs	Quizzes	In-class participation	Final:Essay/written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	30	10	30	30	100	M1	60	75	

Course Code	Program Outputs	Midterm	Midterm	Final	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
MATH 101	a	25	25	30	10	10	100	M1	40	50			
	Program Outputs	Midterm	Midterm	Final	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	c	25	25	30	10	10	100	M1	40	50			
	Program Outputs	Midterm	Midterm	Final	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	e	25	25	30	10	10	100	M1	40	50			
Course Code	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
MATH 102	a	30	30	40	100	M1	40	50					
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	c	30	30	40	100	M1	40	50					
	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	e	30	30	40	100	M1	40	50					
Course Code	Program Outputs	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
MATH 220	a	50	50	100	M1	40	40						
Course Code	Program Outputs	Midterm:Essay /written	Homework	Homework	Homework	Homework	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
MATH 230	a	40	3,75	3,75	3,75	3,75	45	100	M1	30	75		
Course Code	Program Outputs	Midterm:Essay /written	Final:Essay/ written	Homework	Homework	Homework	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	
MATH 240	a	40	46	2	2	2	2	2	2	2	100	M1	
		(Average) Qualification Grade	Qualification Threshold (%)										
		30	75										

Course Code	Program Outputs	Quiz	Quiz	Quiz	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MBG 110	a	5	5	5	25	30	30	100	M1	50	50	
Course Code	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Quiz	Quiz	Quiz	Quiz	Quiz	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
ME 101	a	20	20	6	6	6	6	6	30	100	M1	40
		Qualification Threshold (%)										
	75											
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
e	100	100	M1	40	75							
Course Code	Program Outputs	Midterm:Essay /written	Midterm:Essay /written	Final:Essay/written	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
ME 211	a	20	20	30	30	100	M1	48	75			
	Program Outputs	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
	f	100	100	M1	70	75						
Course Code	Program Outputs	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Quiz	Midterm	Midterm	Final
ME 231	a	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	25	25	30
		Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)							
		100	M1	35	75							
	Program Outputs	Lab work	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
f	50	50	100	M1	65	75						

Course Code	Program Outputs	Quiz	Midterm:Essay /written	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
ME 341	a	10	25	25	40	100	M1	40	75			
Course Code	Program Outputs	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
ME 371	e	100	100	M1	80	75						
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
	f	100	100	M1	80	75						
Course Code	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
PHYS 101	a	15	20	10	10	25	20	100	M1	50	50	
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	b	15	20	10	10	25	20	100	M1	50	50	
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	e	15	20	10	10	25	20	100	M1	50	50	
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
g	15	20	10	10	25	20	100	M1	50	50		
Course Code	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
PHYS 102	a	15	20	10	10	25	20	100	M1	50	50	
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	b	15	20	10	10	25	20	100	M1	50	50	

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

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

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

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

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

Program Çıktısı/ Program Outcome	Yeterlilik Hesaplama Yöntemi/ Method	(Ortalama) Yeterlilik Notu/ Minimum Successful Grade	Yeterlilik Eşiği (%) / 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 201 - Malzeme Bilimi ve Teknolojisi / CHEM 201 - Materials Science and Technology													
a	M1	50	70	123	51	67.69	68.5	107	46	86.99	90.2	Yeterli ✓ / Sufficient ✓	90.2
CS 115 - Python ile Programlamaya Giriş / CS 115 - Introduction to Programming in Python													
a	M1	40	75	378	51	70.37	67.52	366	49	96.83	96.08	Yeterli ✓ / Sufficient ✓	96.08
ENG 101 - İngilizce ve Kompozisyon I / ENG 101 - English and Composition I													
c	M1	70	75	1702	72	82.4	82.78	1593	69	93.6	95.83	Yeterli ✓ / Sufficient ✓	95.83
g	M1	70	75	1702	72	82.4	82.78	1593	69	93.6	95.83	Yeterli ✓ / Sufficient ✓	95.83
ENG 101 - İngilizce ve Kompozisyon I / ENG 102 - English and Composition II													
c	M1	70	70	616	27	86.42	86.37	603	27	97.89	100	Yeterli ✓ / Sufficient ✓	100
g	M1	70	70	616	27	86.42	86.37	603	27	97.89	100	Yeterli ✓ / Sufficient ✓	100
ENG 401 - Teknik Rapor Yazma ve Sunum / ENG 401 - Technical Report Writing and Presentation													
c	M1	70	80	275	55	88.86	88.86	270	55	98.18	100	Yeterli ✓ / Sufficient ✓	100
g	M1	70	80	275	55	88.86	88.86	270	55	98.18	100	Yeterli ✓ / Sufficient ✓	100
GE 100 - Üniversite Hayatına Giriş / GE 100 - Orientation													
c	M1	12	80	1678	69	97.32	97.46	1678	69	100	100	Yeterli ✓ / Sufficient ✓	100
d	M1	12	80	1678	69	97.32	97.46	1678	69	100	100	Yeterli ✓ / Sufficient ✓	100
g	M1	12	80	1678	69	97.32	97.46	1678	69	100	100	Yeterli ✓ / Sufficient ✓	100
h	M1	12	80	1678	69	97.32	97.46	1678	69	100	100	Yeterli ✓ / Sufficient ✓	100

Program Çıktısı/ Program Outcome	Yeterlilik Hesaplama Yöntemi/ Method	(Ortalama) Yeterlilik Notu/ Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı/ Number of Students (All)	Toplam Dept. Öğrenci Sayısı/ Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
GE 251 - Üniversite Etkinlik Programı II / GE 251 - Collegiate Activities Program II													
c	M1	70	70	974	45	92.76	92.78	898	40	92.2	88.89	Yeterli ✓ / Sufficient ✓	88.89
g	M1	70	70	974	45	92.76	92.78	898	40	92.2	88.89	Yeterli ✓ / Sufficient ✓	88.89
h	M1	70	70	974	45	92.76	92.78	898	40	92.2	88.89	Yeterli ✓ / Sufficient ✓	88.89
GE 301 - Bilim, Teknoloji ve Toplum / GE 301 - Science Technology and Society													
d	M1	45	60	304	54	82.88	82.05	304	54	100	100	Yeterli ✓ / Sufficient ✓	100
e	M1	45	60	304	54	82.88	82.05	304	54	100	100	Yeterli ✓ / Sufficient ✓	100
g	M1	45	60	304	54	82.88	82.05	304	54	100	100	Yeterli ✓ / Sufficient ✓	100
HIST 200 - Türkiye Tarihi / HIST 200 - History of Turkey													
c	M1	70	75	1036	43	93.59	95.61	1026	43	99.03	100	Yeterli ✓ / Sufficient ✓	100
e	M1	70	75	1036	43	93.59	95.61	1026	43	99.03	100	Yeterli ✓ / Sufficient ✓	100
g	M1	70	75	1036	43	93.59	95.61	1026	43	99.03	100	Yeterli ✓ / Sufficient ✓	100
HUM 111 - Kültürler, Medeniyetler ve Düşünceler I / HUM 111 - Cultures Civilizations and Ideas I													
c	M1	60	75	1139	79	84.61	87.33	1135	78	99.65	98.73	Yeterli ✓ / Sufficient ✓	98.73
g	M1	60	75	1139	79	84.61	87.33	1135	78	99.65	98.73	Yeterli ✓ / Sufficient ✓	98.73
HUM 112 - Kültürler, Medeniyetler ve Düşünceler II / HUM 112 - Cultures Civilizations and Ideas II													
c	M1	60	75	287	20	84.87	86.13	285	20	99.3	100	Yeterli ✓ / Sufficient ✓	100
g	M1	60	75	287	20	84.87	86.13	285	20	99.3	100	Yeterli ✓ / Sufficient ✓	100
MATH 101 - Matematik I / MATH 101 - Calculus I													
a	M1	40	50	682	81	63.69	63.07	607	72	89	88.89	Yeterli ✓ / Sufficient ✓	88.89
c	M1	40	50	682	81	63.69	63.07	607	72	89	88.89	Yeterli ✓ / Sufficient ✓	88.89
e	M1	40	50	682	81	63.69	63.07	607	72	89	88.89	Yeterli ✓ / Sufficient ✓	88.89

Program Çıktısı/ Program Outcome	Yeterlilik Hesaplama Yöntemi/ Method	(Ortalama) Yeterlilik Notu/ Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı/ Number of Students (All)	Toplam Dept. Öğrenci Sayısı/ Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
MATH 102 - Matematik II / MATH 102 - Calculus II													
a	M1	40	50	258	35	53.52	53.17	181	26	70.16	74.29	Yeterli ✓ / Sufficient ✓	74.29
c	M1	40	50	258	35	53.52	53.17	181	26	70.16	74.29	Yeterli ✓ / Sufficient ✓	74.29
e	M1	40	50	258	35	53.52	53.17	181	26	70.16	74.29	Yeterli ✓ / Sufficient ✓	74.29
MATH 220 - Doğrusal Cebir / MATH 220 - Linear Algebra													
a	M1	40	40	85	79	56.76	56.92	70	64	82.35	81.01	Yeterli ✓ / Sufficient ✓	81.01
MATH 230 - Mühendisler İçin Olasılık ve İstatistik / MATH 230 - Probability and Statistics for Engineers													
a	M1	30	75	218	64	60.38	53.38	207	59	94.95	92.19	Yeterli ✓ / Sufficient ✓	92.19
MATH 240 - Türevsel Denklemler / MATH 240 - Differential Equations													
a	M1	30	75	51	25	67.09	64.13	51	25	100	100	Yeterli ✓ / Sufficient ✓	100
MBG 110 - Modern Biyolojiye Giriş / MBG 110 - Introduction to Modern Biology													
a	M1	50	50	487	24	68.05	72.94	432	24	88.71	100	Yeterli ✓ / Sufficient ✓	100
ME 101 - Makine Mühendisliğinin Temelleri / ME 101 - Fundamentals of Mechanical Engineering													
a	M1	40	75	72	71	75.82	76.03	72	71	100	100	Yeterli ✓ / Sufficient ✓	100
e	M1	40	75	72	71	77.6	77.46	72	71	100	100	Yeterli ✓ / Sufficient ✓	100
ME 211 - Termodinamik Mühendisliği I / ME 211 - Thermo-Fluids Engineering I													
a	M1	48	75	126	126	66.5	66.5	114	114	90.48	90.48	Yeterli ✓ / Sufficient ✓	90.48
f	M1	70	75	126	126	81.72	81.72	109	109	86.51	86.51	Yeterli ✓ / Sufficient ✓	86.51
ME 231 - Mekanik ve Malzeme I / ME 231 - Mechanics and Materials I													
a	M1	35	75	123	123	66.6	66.6	123	123	100	100	Yeterli ✓ / Sufficient ✓	100
f	M1	65	75	123	123	86.32	86.32	123	123	100	100	Yeterli ✓ / Sufficient ✓	100
ME 341 - Dinamik ve Kontrol I / ME 341 - Dynamics and Control I													
a	M1	40	75	79	78	58.52	58.45	73	72	92.41	92.31	Yeterli ✓ / Sufficient ✓	92.31

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
ME 371 - Ölçme ve Değerlendirme / ME 371 - Measurement and Instrumentation													
e	M1	80	75	65	65	94.02	94.02	65	65	100	100	Yeterli ✓ / Sufficient ✓	100
f	M1	80	75	65	65	94.01	94.01	65	65	100	100	Yeterli ✓ / Sufficient ✓	100
PHYS 101 - Genel Fizik I / PHYS 101 - General Physics I													
a	M1	50	50	620	75	65.09	65.53	568	72	91.61	96	Yeterli ✓ / Sufficient ✓	96
b	M1	50	50	620	75	65.09	65.53	568	72	91.61	96	Yeterli ✓ / Sufficient ✓	96
e	M1	50	50	620	75	65.09	65.53	568	72	91.61	96	Yeterli ✓ / Sufficient ✓	96
g	M1	50	50	620	75	65.09	65.53	568	72	91.61	96	Yeterli ✓ / Sufficient ✓	96
PHYS 102 - Genel Fizik II / PHYS 102 - General Physics II													
a	M1	50	50	201	24	64.05	62.94	171	19	85.07	79.17	Yeterli ✓ / Sufficient ✓	79.17
b	M1	50	50	201	24	64.05	62.94	171	19	85.07	79.17	Yeterli ✓ / Sufficient ✓	79.17
e	M1	50	50	201	24	64.05	62.94	171	19	85.07	79.17	Yeterli ✓ / Sufficient ✓	79.17
g	M1	50	50	201	24	64.05	62.94	171	19	85.07	79.17	Yeterli ✓ / Sufficient ✓	79.17
TURK 101 - Türkçe I / TURK 101 - Turkish I													
c	M1	70	60	1541	70	88.03	88.71	1519	70	98.57	100	Yeterli ✓ / Sufficient ✓	100
g	M1	70	60	1541	70	88.03	88.71	1519	70	98.57	100	Yeterli ✓ / Sufficient ✓	100
TURK 102 - Türkçe II / TURK 102 - Turkish II													
c	M1	70	60	637	35	90.42	91.7	626	35	98.27	100	Yeterli ✓ / Sufficient ✓	100
g	M1	70	60	637	35	90.42	91.7	626	35	98.27	100	Yeterli ✓ / Sufficient ✓	100

3.3. PERFORMANS ÖLÇÜM SONUÇLARI / PERFORMANCE MEASUREMENT RESULT

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 201	✓							
CS 115	✓							
ENG 101			✓				✓	
ENG 102			✓				✓	
ENG 401			✓				✓	
GE 100			✓	✓			✓	✓
GE 251			✓				✓	✓
GE 301				✓	✓		✓	
HIST 200			✓		✓		✓	
HUM 111			✓				✓	
HUM 112			✓				✓	
MATH 101	✓		✓		✓			
MATH 102	✓		✓		✓			
MATH 220	✓							
MATH 230	✓							
MATH 240	✓							
MBG 110	✓							
ME 101	✓				✓			
ME 211	✓					✓		
ME 231	✓					✓		
ME 341	✓							
ME 371					✓	✓		
PHYS 101	✓	✓			✓		✓	
PHYS 102	✓	✓			✓		✓	
TURK 101			✓				✓	
TURK 102			✓				✓	

Tablo.3.3.1. 2024-2025 Akademik Yılı Güz Dönemi Makine Mühendisliği Lisans Programı Program Çıktıları Performans Tablosu / *Table.3.3.1. 2024-2025 Academic Year Fall Semester Mechanical Engineering Undergraduate Program - Program Outcomes Performance Table*

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

Dersler / Courses	Program Çıktıları / Program Outcomes							
	a	b	c	d	e	f	g	h
CHEM 201	90.2							
CS 115	96.08							
ENG 101			95.83				95.83	
ENG 102			100				100	
ENG 401			100				100	
GE 100			100	100			100	100
GE 251			88.89				88.89	88.89
GE 301				100	100		100	
HIST 200			100		100		100	
HUM 111			98.73				98.73	
HUM 112			100				100	
MATH 101	88.89		88.89		88.89			
MATH 102	74.29		74.29		74.29			
MATH 220	81.01							
MATH 230	92.19							
MATH 240	100							
MBG 110	100							
ME 101	100				100			
ME 211	90.48					86.51		
ME 231	100					100		
ME 341	92.31							
ME 371					100	100		
PHYS 101	96	96			96		96	
PHYS 102	79.17	79.17			79.17		79.17	
TURK 101			100				100	
TURK 102			100				100	

Tablo.3.3.2. 2024-2025 Akademik Yılı Güz Dönemi Makine Mühendisliği Lisans Programı Program Çıktıları Performans Oranları Tablosu / *Table.3.3.2. 2024-2025 Academic Year Fall Semester Mechanical Engineering Undergraduate Program - Program Outcomes Performance Rates Table*