2023-2024 AKADEMİK YILI
/ Academic Year

EĞİTİMDE KALİTE GÜVENCESİ YILLIK RAPORU

QUALITY ASSURANCE IN EDUCATION ANNUAL REPORT

MÜHENDİSLİK FAKÜLTESİ

FACULTY OF ENGINEERING

ENDÜSTRİ MÜHENDİSLİĞİ LİSANS PROGRAMI (IE)

INDUSTRIAL ENGINEERING UNDERGRADUATE PROGRAM (IE)

İÇİNDEKİLER / *CONTENTS*

MÜHENDİSLİK FAKÜLTESİ / *FACULTY OF ENGINEERING*

ENDÜSTRİ MÜHENDİSLİĞİ LİSANS PROGRAMI – IE / *INDUSTRIAL ENGINEERING UNDERGRADUATE PROGRAM – IE*

1. BÖLÜM HAKKINDA / *ABOUT THE DEPARTMENT*

1.1. EĞİTİM AMAÇLARI / *EDUCATIONAL OBJECTIVES*

Endüstri Mühendisliği programının mevcut eğitim hedefleri şunlardır: / *The current educational objectives of the Industrial Engineering program are:*

- Mezunlar, analitik ve sistem düşüncesi gibi endüstri mühendisliği bilgi ve becerilerini uygulayarak kendi mesleki alanlarındaki sorunları çözeceklerdir. / *Graduates will solve problems in their respective professional domains by applying industrial engineering knowledge and skills, such as analytical and systems thinking.*
- Mezunlar, imalat veya hizmet sektörlerinde sistemlerin analizi, tasarımı, uygulanması ve iyileştirilmesi gibi işlevlere aktif olarak katılacaklardır. / *Graduates will participate actively in functions such as analysis, design, implementation and improvement of systems in manufacturing or service sectors.*
- Mezunlar ileri derece programlarına katılacak veya atölye çalışmaları, eğitim programları, lisans sertifikaları veya bağımsız çalışmalar yoluyla mesleki gelişimlerine devam edeceklerdir. / *Graduates will engage in advanced degree programs or continue professional development via workshops, training programs, license certifications, or independent studies.*

1.1.1. DANIŞMA KURULU / *ADVISORY BOARD*

- Rajan Batta, Profesör Doktor / Fakülte İşlerinden Sorumlu Dekan Yardımcısı, Mühendislik ve Uygulamalı Bilimler Fakültesi, Buffalo Üniversitesi / *Rajan Batta, Professor Doctor / Associate Dean for Faculty Affairs, School of Engineering and Applied Sciences, University of Buffalo*
- Pınar Keskinocak, Profesör Doktor / Kurucu Ortak ve Direktör / Başkan, Endüstri ve Sistem Mühendisliği Okulu, Georgia Institute of Technology / *Pınar Keskinocak, Professor Doctor / Co-founder and Director / President, School of Industrial and Systems Engineering, Georgia Institute of Technology*
- Alper Atamtürk, Profesör Doktor / Bölüm Başkanı, Endüstri Mühendisliği ve Yöneylem Araştırması Endüstri Mühendisliği ve Yöneylem Araştırması Bölümü, California Üniversitesi, Berkeley /*Alper Atamtürk, Professor Doctor / Head of Department, Industrial Engineering and Operations Research Department of Industrial Engineering and Operations Research, University of California, Berkeley*
- Erdinç Mert, Kurucu ve Genel Müdür, BeNova Danışmanlık / *Erdinç Mert, Founder and General Manager, BeNova Consulting*
- Özgür Sarhan, Enerji Temini, Piyasalar ve İstatistik Dairesi Başkanı, T.C. Enerji ve Tabii Kaynaklar Bakanlığı / *Özgür Sarhan, Head of Energy Supply, Markets and Statistics Department, T.C. Energy and Natural Resources Ministry*

- Nur Kılınç, Malzeme Bölüm Müdürü, FNSS Savunma Sistemleri A.Ş. / *Nur Kılınç, Materials Department Manager, FNSS Defense System. Inc.*
- Engin Evren Cantürk, Yatırım Hizmetleri Bölüm Başkanı / Akyatırım Yönetim Kurulu Üyesi, Akbank / *Engin Evren Cantürk, Head of Investment Services Department / Member of Akyatırım's Board of Directors, Akbank*
- Ceren Acer Kezik, Bankacılık Direktörü, Garanti Bankası / *Ceren Acer Kezik, Banking Director, Garanti Bank*
- İpek Tezel, Küresel Müşteri Bağlılığı Analitiği Başkanı, Sanofi A.Ş. / *İpek Tezel, Head of Global Customer Loyalty Analytics, Sanofi Inc.*
- Bora Dilik, Genel Müdür Yardımcısı, Nevzat İlaç A.Ş. / *Bora Dilik, Vice of General Manager, Nevzat Pharma. Inc.*
- Dilek Şen, Ortak ve Kurucu, Prosis Danışmanlık / *Dilek Şen, Partner and Founder, Prosis Consulting*
- Evren Özkaya, Kurucu ve CEO, Tedarik Zinciri Sihirbazı, Gartner Cool Vendor / *Evren Özkaya, Founder and CEO, Supply Chain Wizard, Gartner Cool Vendor*
- Hakan Polatoğlu, CEO, ETİ A.Ş. / *Hakan Polatoğlu, CEO, Eti Inc.*
- N. Tanzer Tunçalp, Tedarik Zinciri Planlama Grup Müdürü, Arçelik A.Ş. */ N. Tanzer Tunçalp, Supply Chain Planning Group Manager, Arçelik Inc.*
- Anıl Yılmaz, Verimlilik Genel Müdürü, T.C. Bilim, Sanayi ve Teknoloji Bakanlığı / *Anıl Yılmaz, General Manager of Efficiency, T.C. Ministry of Science, Industry and Technology*
- Erhan Bostan, CEO, A101 / Erhan Bostan, CEO, A101
- Hakan Ergen, Orta Doğu ve Batı Avrupa Ticaret Müdürü, Johnson&Johnson / *Hakan Ergen, Middle East and Western Europe Trade Manager, Johnson&Johnson*
- Özhan Nuri Özesenli, Küresel Tedarik Zinciri Kıdemli Direktörü, Pladis Global / *Özhan Nuri Özesenli, Senior Director of Global Supply Chain, Pladis Global*
- Kudret Arman, Tedarik Zinciri Direktörü, P&G Kafkasya ve Orta Asya Cumhuriyetleri ve Küresel E-Ticaret / Hızlı Ticaret Keşfi Lideri, Procter & Gamble / *Kudret Arman, Supply Chain Director, P&G Caucasus and Central Asian Republics and Global E-Commerce / Fast Trade Discovery Leader, Procter & Gamble*
- Barış Karakullukçu, Müşteri ve İş Analitiği Direktörü, Turkcell / *Barış Karakullukçu, Director of Customer and Business Analytics, Turkcell*
- Duygu Gündoğan, Yönetici / İnsan Kaynakları, Ar-Ge, Üretim Teknolojileri, Arçelik A.Ş. / *Duygu Gündoğan, Manager / Human Resources, R&D, Production Technologies, Arçelik Inc.*
- Sertan Eratay, Dijital Kıdemli Uzmanı, McKinsey / *Sertan Eratay, Digital Senior Specialist, McKinsey*

1.2. LİSANS PROGRAMI / *UNDERGRADUATE PROGRAM*

1.2.1. MÜFREDAT / *CURRICULUM*

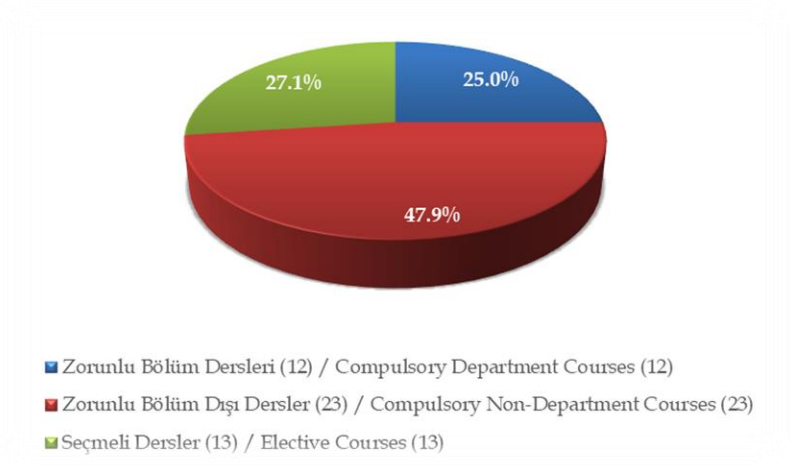
Birinci Yıl / *First Year*					
Güz Dönemi / *Fall Semester*					
Ders Kod / *Course Code*	**Ders Adı / *Course Name***	**Saatler / *Hours***		**Kredi / *Credits***	
		Ders / *Lecture*	**Lab / Stüdyo / Diğer / *Lab / Studio / Others***	**Bilkent**	**ECTS**
ENG 101	İngilizce ve Kompozisyon I / *English and Composition I*	5	0	3	5
GE 100	Üniversite Hayatına Giriş / *Orientation*	0	0	1	2
IE 102	Endüstri Mühendisliğinde Süreç Bakış Açısı / *A Process Outlook for Industrial Engineering*	3	0	3	5
MATH 101	Matematik I / *Calculus I*	4	0	4	6,5
PHYS 101	Genel Fizik I / *General Physics I*	3	3	4	6,5
TURK 101	Türkçe I / *Turkish I*	0	0	2	3,5
Bahar Dönemi / *Spring Semester*					
Ders Kod / *Course Code*	**Ders Adı / *Course Name***	**Saatler / *Hours***		**Kredi / *Credits***	
		Ders / *Lecture*	**Lab / Stüdyo / Diğer / *Lab / Studio / Others***	**Bilkent**	**ECTS**
ENG 102	İngilizce ve Kompozisyon II / *English and Composition II*	5	0	3	5
MATH 102	Matematik II / *Calculus II*	4	0	4	6,5
MATH 132	Sonlu ve Kombinasyonal Matematik / *Discrete and Combinatorial Mathematics*	3	0	3	5
PHYS 102	Genel Fizik II / *General Physics II*	3	3	4	6,5
TURK 102	Türkçe II / *Turkish II*	0	0	2	3,5

İkinci Yıl / *Second Year*					
Güz Dönemi / *Fall Semester*					
Ders Kod / *Course Code*	**Ders Adı / *Course Name***	**Saatler / *Hours***		**Kredi / *Credits***	
		Ders / *Lecture*	**Lab / Stüdyo / Diğer / *Lab / Studio / Others***	**Bilkent**	**ECTS**
CS 115	Python ile Programlamaya Giriş / *Introduction to Programming in Python*	3	4	4	6,5
GE 250	Üniversite Etkinlik Programı I / *Collegiate Activities Program I*	0	0	0	1
HUM 111	Kültürler, Medeniyetler ve Düşünceler I / *Cultures Civilizations and Ideas I*	3	0	3	5
IE 272	İmalat Süreçleri ve Operasyon Analizleri / *Manufacturing Processes and Operations Analysis*	4	2	4	6,5
MATH 225	Doğrusal Cebir ve Türevsel Denklemler / *Linear Algebra and Differential Equations*	4	0	4	6,5
MATH 250	Olasılık Teorisine Giriş / *Introduction to Probability*	3	0	3	5
Bahar Dönemi / *Spring Semester*					
Ders Kod / *Course Code*	**Ders Adı / *Course Name***	**Saatler / *Hours***		**Kredi / *Credits***	
		Ders / *Lecture*	**Lab / Stüdyo / Diğer / *Lab / Studio / Others***	**Bilkent**	**ECTS**
GE 251	Üniversite Etkinlik Programı II / *Collegiate Activities Program II*	0	0	1	2
HIST 200	Türkiye Tarihi / *History of Turkey*	3	0	4	6,5
HUM 112	Kültürler, Medeniyetler ve Düşünceler II / *Cultures Civilizations and Ideas II*	3	0	3	5
IE 202	Modelleme ve Optimizasyona Giriş / *Introduction to Modeling and Optimization*	4	2	4	6,5
IE 342	Mühendislik Ekonomisi Analizi / *Engineering Economic Analysis*	3	0	3	5
MATH 260	İstatistiğe Giriş / *Introduction to Statistics*	3	0	3	5

Üçüncü Yıl / *Third Year*					
Güz Dönemi / *Fall Semester*					
Ders Kod / *Course Code*	**Ders Adı / *Course Name***	**Saatler / *Hours***		**Kredi / *Credits***	
		Ders / *Lecture*	**Lab / Stüdyo / Diğer / *Lab / Studio / Others***	**Bilkent**	**ECTS**
CS 281	Bilgisayarlar ve Veri Organizasyonu / *Computers and Data Organization*	3	2	3	5
ECON 207	Mühendisler İçin İktisat Kuramı / *Economic Theory for Engineers*	3	0	3	5
GE 301	Bilim, Teknoloji ve Toplum / *Science Technology and Society*	2	0	2	3,5
IE 299	Yaz Stajı I / *Summer Training I*	0	0	0	7
IE 303	Modelleme ve Optimizasyon Yöntemleri / *Modeling and Methods in Optimization*	3	0	3	5
IE 325	Stokastik Modeller / *Stochastic Models*	3	0	3	5
IE 375	Üretim Planlama / *Production Planning*	3	0	3	5
Bahar Dönemi / *Spring Semester*					
Ders Kod / *Course Code*	**Ders Adı / *Course Name***	**Saatler / *Hours***		**Kredi / *Credits***	
		Ders / *Lecture*	**Lab / Stüdyo / Diğer / *Lab / Studio / Others***	**Bilkent**	**ECTS**
ENG 401	Teknik Rapor Yazma ve Sunum / *Technical Report Writing and Presentation*	3	0	3	5
IE 324	Simülasyon / *Simulation*	3	2	4	6,5
IE 376	Üretim Bilgi Sistemleri / *Production Information Systems*	3	0	3	5
IE 496	Üretim Sistemleri Semineri / *Seminar in Production Systems*	2	0	0	1
	Geniş Seçmeli Ders / *Breadth Elective*			3	
	Endüstri Mühendisliği Veri, Risk ve Belirsizlik Seçmeli Dersi / *IE Elective on Data, Risk and Uncertainty*			3	
	Endüstri Mühendisliği Sınırlı Seçmeli Dersi / *IE Restricted Elective*			3	

Dördüncü Yıl / *Fourth Year*					
Güz Dönemi / *Fall Semester*					
Ders Kod / *Course Code*	**Ders Adı / *Course Name***	**Saatler / *Hours***		**Kredi / *Credits***	
		Ders / *Lecture*	**Lab / Stüdyo / Diğer / *Lab / Studio / Others***	**Bilkent**	**ECTS**
IE 399	Yaz Stajı II / *Summer Training II*	0	0	0	7
	Temel Sanat Seçmeli Dersi / *Arts Core Elective*			3	
	Geniş Seçmeli Ders / *Breadth Elective*			3	
	Endüstri Mühendisliği Sınırlı Seçmeli Dersi (2) / *IE Restricted 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**
	Geniş Seçmeli Ders / *Breadth Elective*			3	
	Endüstri Mühendisliği Sınırlı Seçmeli Dersi (2) / *IE Restricted Elective (2)*			6	
	Proje Seçmeli Dersi II / *Project Elective II*			3	
	Temel Sosyal Bilimler Seçmeli Dersi / *Social Science Core Elective*			3	

1.2.2. DERSLERİN DAĞILIMI / *DISTRIBUTION COURSES*



Grafik.1.2.2. Endüstri Mühendisliği Lisans Programı Müfredatındaki Derslerin Dağılımı / ***Graphic.1.2.2.*** *Distribution of Courses in the Industrial Engineering Undergraduate Program Curriculum*

1.3. ÖĞRENCİLER / *STUDENTS*

1.3.1. ÖĞRENCİ SAYILARI / *NUMBER OF STUDENTS*

	Öğrenci Sayıları / *Number of Students*
Hazırlık / *Prep*	61
1. Sınıf / *1. Class*	196
2. Sınıf / *2. Class*	183
3. Sınıf / *3. Class*	190
4. Sınıf / *4. Class*	207
Toplam Öğrenci Sayısı / *Total Number of Students*	**837**

Tablo.1.3.1. 2023-2024 Akademik Yılı Endüstri Mühendisliği Lisans Programı Öğrenci Sayıları / ***Table.1.3.1.*** *Number of Students in Industrial Engineering 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*
1. Sınıf / *1. Class*	2
2. Sınıf / *2. Class*	1
3. Sınıf / *3. Class*	2
4. Sınıf / *4. Class*	3
Toplam Yabancı Öğrenci Sayısı / *Total Number of Foreign Students*	**8**

Tablo.1.3.2. 2023-2024 Akademik Yılı Endüstri Mühendisliği Lisans Programı Yabancı Öğrenci Sayıları / ***Table.1.3.2.*** *Number of Foreign Students in Industrial Engineering 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*	8
Doçent Doktor / *Associate Professor*	6
Doktor Öğretim Üyesi / *Asisstant Professor*	5
Öğretim Görevlisi / *Instructor*	3
Araştırma Görevlisi / *Research Assistant*	1
Toplam Öğretim Elemanı Sayısı / *Total Number of Faculty Members*	**23**

Tablo.1.4.1. 2023-2024 Akademik Yılında Endüstri Mühendisliği Lisans Programı Kadrolu ve Yarı Zamanlı Öğretim Elemanı Sayıları / ***Table.1.4.1.*** *Number of Full-Time and Part-Time Faculty Members in the Industrial Engineering 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*
Araştırma Görevlisi / Research Assistant	Tam Zamanlı / Full Time	Zehranaz Varol
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Yiğit Karpat
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Özlem Çavuş İyigün
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Ayşe Selin Kocaman
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Özlem Karsu
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Firdevs Ulus
Doçent Doktor / Associate Professor	Tam Zamanlı / Full Time	Arnab Basu
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Emre Nadar
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Çağın Ararat
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Andrea Pizzuti
Doktor Öğretim Üyesi / Assistant Professor	Tam Zamanlı / Full Time	Tagi Hanalioğlu
Doktor Öğretim Üyesi / Assistant Professor	Yarı Zamanlı / Part Time	Yusuf Seçerdin
Öğretim Görevlisi / Instructor	Yarı Zamanlı / Part Time	Hasan Semih Ergür
Öğretim Görevlisi / Instructor	Tam Zamanlı / Full Time	Nil Şahin
Öğretim Görevlisi / Instructor	Tam Zamanlı / Full Time	Emre Uzun
Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Mehmet Selim Aktürk
Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Ülkü Gürler
Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Mustafa Çelebi Pınar
Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Oya Karaşan
Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Bahar Yetiş
Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Alper Şen
Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Nesim Kohen Erkip
Profesör Doktor / Professor Doctor	Tam Zamanlı / Full Time	Savaş Dayanık

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

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

- Bahar Yetiş
- Emre Uzun
- Yiğit Karpat

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

Basic Field Qualifications for Engineering (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. Have sufficient background in mathematics, sciences and their own field of study.	S1. Make use of theoretical and practical knowledge on mathematics, sciences and their own field concurrently for engineering solutions. S2. Identify, define, formulate and solve engineering problems; select and apply analytical methods and modeling techniques appropriate for this purpose. S3. Analyze a system, a system component or a process; make a design in consideration of realistic constraints in order to meet the needs expected; and apply modern design methods. S4. Select and use modern techniques and devices required for engineering applications.	W1. Assume active responsibility in individual work or multi-disciplinary team work. W2. Accesses information and makes source research for this purpose, uses databases and other information sources.	L1. Know how to access information and do literature survey; and make use of databases and other information resources. L2. Be aware of the need for lifelong learning; keep up with the developments in science and technology and renew themselves continuously. L3. Make use of theoretical and practical knowledge on mathematics, sciences and their own field concurrently for engineering solutions. L4. Identify, define, formulate and solve engineering problems; select and apply analytical methods and modeling techniques appropriate for this purpose. L5. Analyze a system, a system component or a process; make a design in consideration of realistic constraints in order to meet the needs expected; and apply modern design methods.	C1. Uses information and communication technologies together with computer software required by the field at least Advanced Level of European Computer Driving License. C2. Communicate in oral and written form in a foreign language at minimum B1 level, as defined by the European Language Portfolio. C3. Communicates using technical drawing. C4. Accesses information and makes source research for this purpose, uses databases and other information sources. C5. Becomes aware of the universal and social effects of engineering solutions and applications; become aware of entrepreneurship and innovation and have knowledge about the problems of the age.	F1. Have sense of professional and ethical responsibility. F2. Have consciousness about project management, workplace practices, workers' health, environmental risk evaluation, environmental and work safety; and have awareness about legal consequences of engineering applications. F3. Becomes aware of the universal and social effects of engineering solutions and applications; become aware of entrepreneurship and innovation and have knowledge about the problems of the age.

		S5. Design and conduct experiments, collect data, analyze and interpret results.		L6. Select and use modern techniques and devices required for engineering applications. L7. Assume active responsibility in individual work or multi-disciplinary team work.		

3. PROGRAM ÇIKTILARI / *PROGRAM OUTCOMES*

3.1. 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 function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.*

f. Uygun deneyler geliştirme ve yürütme, verileri analiz etme ve yorumlama ve tüm bunlardan sonuç çıkarmak için mühendislik yargısını kullanma becerisine sahiptir. / *An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions.*

g. Uygun öğrenme stratejilerini kullanarak gerektiğinde yeni bilgi edinme ve uygulama becerisine sahiptir. / An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

h. Öğrenciler, derslerin yanı sıra çeşitli ve yaratıcı, sanatsal, kültürel, sportif ve entelektüel faaliyetlere katılarak kampüs hayatından daha fazla faydalanırlar. / *Take advantage of the campus life where students are engaged in diversity, creativity and commitment outside coursework through artistic, cultural, sportive and intellectual activities.*

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						✔		
W1					✔			✔
W2							✔	
L1							✔	
L2							✔	
L3	✔	✔						
L4	✔	✔						
L5	✔	✔						
L6	✔					✔		
L7					✔			✔
C1						✔		
C2			✔					
C3			✔					
C4							✔	
C5				✔				
F1				✔				
F2				✔				
F3				✔				

Tablo.3.2. Ulusal Yeterlilikler ile Amerikan Kültürü ve Edebiyatı Lisans Programı Program Çıktıları Bağlantı Tablosu / ***Table.3.2.*** *National Qualifications and American Culture and Literature Undergraduate Program Program Outcomes Link Table*

4. DERSLER / *COURSES*

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

Dersler / Courses	Program Çıktıları / *Program Çıktıları*							
	a	b	c	d	e	f	g	h
CS 115	✔							
CS 281		✔				✔		
ECON 207		✔						
ENG 101			✔				✔	
ENG 102			✔				✔	
ENG 401			✔				✔	
GE 100			✔	✔			✔	✔
GE 250			✔				✔	✔
GE 251			✔				✔	✔
GE 301				✔	✔		✔	
HIST 200			✔		✔		✔	
HUM 111			✔				✔	
HUM 112			✔				✔	
IE 102	✔			✔				
IE 202	✔	✔			✔			
IE 272	✔	✔		✔			✔	
IE 299	✔		✔	✔	✔	✔		
IE 303	✔					✔		

Dersler / Courses	Program Çıktıları / *Program Çıktıları*							
	a	b	c	d	e	f	g	h
IE 324	✔	✔			✔	✔		
IE 325	✔							
IE 342	✔			✔				
IE 375	✔	✔		✔				
IE 376	✔	✔		✔	✔		✔	
IE 399	✔	✔	✔	✔	✔	✔	✔	
IE 496				✔			✔	
MATH 101	✔		✔		✔			
MATH 102	✔		✔		✔			
MATH 132	✔							
MATH 225	✔							
MATH 250	✔		✔		✔			
MATH 260	✔							
PHYS 101	✔	✔			✔		✔	
PHYS 102	✔	✔			✔		✔	
TURK 101			✔				✔	
TURK 102			✔				✔	

Tablo.4.1. Endüstri Mühendisliği Lisans Programı - Program Çıktıları ve Dersler Tablosu / ***Table.4.1.*** *Industrial Engineering 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 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	Midterm:Essay/ written	Project	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
CS 281	b	35	25	40	100	M1	40	75	
	Program Outputs	**Homework**	**Project**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**		
	f	30	70	100	M1	40	75		

Course Code	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
ECON 207	b	30	30	40	100	M3	40

Course Code	Program Outputs	Academic Essay 1	Essay	Oral Presentation	Student Led Discussion	Academic Summary and Critical Response Task	Self-progress Reflection Task	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
ENG 101	c	20	25	8	7	10	5	25	100	M1	70	75
	Program Outputs	**Academic Essay 1**	**Essay**	**Oral Presentation**	**Student Led Discussion**	**Academic Summary and Critical Response Task**	**Self-progress Reflection Task**	**Final**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	g	20	25	8	7	10	5	25	100	M1	70	75

Course Code	Program Outputs	Library Skills Task	Academic Essay	Oral Presentation	Research Paper Outline	Research essay	Interviews	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
ENG 102	c	5	20	20	10	30	15	100	M1	70	70	
	Program Outputs	**Library Skills Task**	**Academic Essay**	**Oral Presentation**	**Research Paper Outline**	**Research essay**	**Interviews**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	g	5	20	20	10	30	15	100	M1	70	70	

Course Code	Program Outputs	Oral presentation	Oral presentation	Written Project Proposal	Written Final Report	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
ENG 401	c	15	30	20	35	100	M1	70	80	
	Program Outputs	Oral presentation	Oral presentation	Written Project Proposal	Written Final Report	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	g	15	30	20	35	100	M1	70	80	

Course Code	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
GE 100	c	100	100	M1	12	80
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	d	100	100	M1	12	80
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	100	100	M1	12	80
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	h	100	100	M1	12	80

Course Code	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
GE 251	c	100	100	M1	70	70
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	100	100	M1	70	70
	Program Outputs	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	h	100	100	M1	70	70

Course Code	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
GE 301	d	25	30	30	15	100	M1	45	60	

Course Code	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
GE 301	e	25	30	30	15	100	M1	45	60	
	Program Outputs	**Final**	**Midterm**	**Project**	**In-class participation**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	g	25	30	30	15	100	M1	45	60	

Course Code	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
HIST 200	c	10	60	30	100	M1	70	75
	Program Outputs	**Oral presentation**	**Research essay**	**Performance**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	e	10	60	30	100	M1	70	75
	Program Outputs	**Oral presentation**	**Research essay**	**Performance**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	g	10	60	30	100	M1	70	75

Course Code	Program Outputs	Quizzes	Course Project	In-class participation	Final Examination	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
HUM 111	c	30	30	10	30	100	M1	60	75	
	Program Outputs	**Quizzes**	**Course Project**	**In-class participation**	**Final Examination**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	g	30	30	10	30	100	M1	60	75	

Course Code	Program Outputs	Quizzes	In-class participation	Final:Essay/ written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
HUM 112	c	30	10	30	30	100	M1	60	75	
	Program Outputs	**Quizzes**	**In-class participation**	**Final:Essay/ written**	**Project**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**	
	g	30	10	30	30	100	M1	60	75	

Course Code	Program Outputs	Homework	Homework	Quiz	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
IE 102	a	10	25	15	25	25	100	M1	30	75	
	Program Outputs	Homework	Homework	Quiz	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	d	10	25	15	25	25	100	M1	30	75	

Course Code	Program Outputs	In-class participation	In-class participation	In-class participation	In-class participation	Project	Quiz	Quiz	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
IE 202	a	10	10	5	5	30	15	15	10	100	M1	45
		Qualification Threshold (%)										
		75										
	Program Outputs	Project	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	b	50	50	100	M1	55	75					
	Program Outputs	In-class participation	In-class participation	In-class participation	In-class participation	In-class participation	In-class participation	In-class participation	Project	Project	Total Contribution	Qualification Calculation Method
	e	10	10	10	10	10	10	10	15	15	100	M1
		(Average) Qualification Grade	Qualification Threshold (%)									
		60	75									

Course Code	Program Outputs	Essay	Essay	Essay	Essay	Essay	Project	Quiz	Midterm	Final	Total Contribution	Qualification Calculation Method
IE 272	a	5	5	5	5	5	15	10	20	30	100	M1
		(Average) Qualification Grade	Qualification Threshold (%)									
		30	75									
	Program Outputs	Lab work	Lab work	Lab work	Lab work	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	b	20	20	20	20	20	100	M1	30	75		
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
	d	100	100	M1	30	75						
	Program Outputs	Essay	Essay	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	g	25	25	50	100	M1	30	75				

Course Code	Program Outputs	Midterm:Essay/ written	Lab work	Final:Essay/ written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
IE 303	a	30	10	40	20	100	M1	30	75
	Program Outputs	Midterm:Essay/ written	Lab work	Final:Essay/ written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	f	20	10	50	20	100	M1	30	75

Course Code	Program Outputs	Term project	Midterm	Lab exam	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
IE 324	a	30	40	15	15	100	M1	30	75
	Program Outputs	Term project	Lab exam	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	b	30	25	10	25	10	100	M1	30	75
	Program Outputs	Term project	Lab exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	c	60	40	100	M1	30	75			
	Program Outputs	Term project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	e	100	100	M1	30	75				
	Program Outputs	Term project	Midterm	Final	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	f	20	20	20	10	10	10	10	100	M1	30	75

Course Code	Program Outputs	Midterm:Essay/ written	Quiz	Quiz	Quiz	Quiz	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
IE 325	a	35	6	6	6	7	40	100	M1	30	75

Course Code	Program Outputs	Midterm:Essay/ written	Quiz	Quiz	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
IE 342	a	30	15	15	40	100	M1	25	75
	Program Outputs	Midterm:Essay/ written	Quiz	Quiz	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	d	30	15	15	40	100	M1	25	75

Course Code	Program Outputs	Homework	Homework	Homework	Homework	Homework	Homework	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
IE 375	a	7	7	7	7	6	6	30	30	100	M1	30
		Qualification Threshold (%)										
		75										
	Program Outputs	Homework	Homework	Homework	Homework	Homework	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	b	8	8	8	8	8	30	30	100	M1	30	75
	Program Outputs	Homework	Homework	Homework	Homework	Homework	Homework	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
	d	7	7	7	7	6	6	30	30	100	M1	30
		Qualification Threshold (%)										
		75										

Course Code	Program Outputs	Project	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
IE 376	a	40	60	100	M1	30	75					
	Program Outputs	Project	Final:Essay /written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	b	40	60	100	M1	30	75					
	Program Outputs	Project	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	d	40	60	100	M1	30	75					
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
	e	100	100	M1	30	75						
	Program Outputs	Midterm:Essay/ written	Project	Homework	Homework	Homework	Homework	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	32	20	3,5	3,5	3,5	2,5	35	100	M1	30	75

Course Code	Program Outputs	Midterm	Midterm	Final	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 101	a	25	25	30	10	10	100	M1	40	50
	Program Outputs	**Midterm**	**Midterm**	**Final**	**Quiz**	**Homework**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	c	25	25	30	10	10	100	M1	40	50
	Program Outputs	**Midterm**	**Midterm**	**Final**	**Quiz**	**Homework**	**Total Contribution**	**Qualification Calculation Method**	**(Average) Qualification Grade**	**Qualification Threshold (%)**
	e	25	25	30	10	10	100	M1	40	50

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

Course Code	Program Outputs	Homework	Homework	Homework	Homework	Homework	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
MATH 132	a	2	2	2	2	2	30	30	30	100	M1	40
		Qualification Threshold (%)										
		50										

Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 225	a	50	50	100	M1	40	50

Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
MATH 250	a	45	46	6	3	100	M1	20	75		
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	c	45	46	6	3	100	M1	20	75		
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	e	45	46	6	3	100	M1	20	75		

Course Code	Program Outputs	Homework	Homework	Homework	Homework	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
MATH 260	a	3,75	3,75	3,75	3,75	40	45	100	M1	30	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	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
TURK 101	c	70	30	100	M1	70	60

Course Code	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
TURK 101	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 dönem toplamlarının en az G olması / *M1: T% of the students to have a semester total of at least G*
- M2: Öğrencilerin %T'sinin dönem toplamlarının en az bölümdeki dönem toplamlarının ortalaması kadar olması/ *M2: T% of the students of the department to have a semester total of at least that of the department average*
- M3: Öğrencilerin dönem toplamlarının ortalamasının en az G olması / *M3: Average semester total of students of the department to be at least G*
- M4: Öğrencilerin %T'sinin dönem toplamlarının en az tüm bölümlerdeki tüm öğrencilerin dönem toplamlarının ortalaması kadar olması / *M4: T% of the students of the department to have a semester total of at least average semester total of all students from all departments*

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

Course Code	Program Outputs	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	Midterm:Essay/ written	Project	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
CS 281	b	35	25	40	100	M1	40	75

Program Outputs	Homework	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
f	30	70	100	M1	40	75

Course Code	Program Outputs	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
ECON 207	b	30	30	40	100	M3	40

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	25	30	30	15	100	M1	45	60
	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	25	30	30	15	100	M1	45	60
	Program Outputs	Final	Midterm	Project	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	25	30	30	15	100	M1	45	60

Course Code	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
HIST 200	c	10	60	30	100	M1	70	75
	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	10	60	30	100	M1	70	75
	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	10	60	30	100	M1	70	75

Course Code	Program Outputs	Quizzes	Course Project	In-class participation	Final Examination	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
HUM 111	c	30	30	10	30	100	M1	60	75
	Program Outputs	Quizzes	Course Project	In-class participation	Final Examination	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	30	30	10	30	100	M1	60	75

Course Code	Program Outputs	Quizzes	In-class participation	Final:Essay/ written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
HUM 112	c	30	10	30	30	100	M1	60	75
	Program Outputs	Quizzes	In-class participation	Final:Essay/ written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	30	10	30	30	100	M1	60	75

Course Code	Program Outputs	Homework	Homework	Quiz	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
IE 102	a	10	25	15	25	25	100	M1	30	75	
	Program Outputs	Homework	Homework	Quiz	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	d	10	25	15	25	25	100	M1	30	75	

Course Code	Program Outputs	In-class participation	In-class participation	In-class participation	In-class participation	Quiz	Quiz	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
IE 202	a	10	10	15	15	15	15	20	100	M1	45	75
	Program Outputs	Project	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	b	50	50	100	M1	55	75					
	Program Outputs	In-class participation	In-class participation	In-class participation	In-class participation	In-class participation	In-class participation	In-class participation	Project	Project	Total Contribution	Qualification Calculation Method
	e	10	10	10	10	10	10	10	15	15	100	M1
		(Average) Qualification Grade	Qualification Threshold (%)									
		60	75									

Course Code	Program Outputs	Essay	Essay	Essay	Essay	Essay	Project	Quiz	Midterm	Final	Total Contribution	Qualification Calculation Method
IE 272	a	5	5	5	5	5	15	10	20	30	100	M1
		(Average) Qualification Grade	Qualification Threshold (%)									
		30	75									
	Program Outputs	Lab work	Lab work	Lab work	Lab work	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	b	20	20	20	20	20	100	M1	30	75		

Course Code	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
IE 272	d	100	100	M1	30	75						
	Program Outputs	Essay	Essay	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
	g	25	25	50	100	M1	30	75				

Course Code	Program Outputs	Midterm:Essay/ written	Lab work	Final:Essay/ written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
IE 303	a	30	10	40	20	100	M1	30	75			
	Program Outputs	Midterm:Essay/ written	Lab work	Final:Essay/ written	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	f	20	10	50	20	100	M1	30	75			

Course Code	Program Outputs	Term project	Midterm	Lab exam	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
IE 324	a	30	40	15	15	100	M1	30	75			
	Program Outputs	Term project	Lab exam	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	b	30	25	25	10	10	100	M1	30	75		
	Program Outputs	Term project	Lab exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)					
	c	60	40	100	M1	30	75					
	Program Outputs	Term project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
	e	100	100	M1	30	75						
	Program Outputs	Term project	Midterm	Final	Homework	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	f	20	20	20	10	10	10	10	100	M1	30	75

Course Code	Program Outputs	Midterm:Essay/ written	Quiz	Quiz	Quiz	Quiz	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
IE 325	a	35	6	6	6	7	40	100	M1	30	75	

Course Code	Program Outputs	Midterm:Essay/ written	Quiz	Quiz	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
IE 342	a	30	15	15	40	100	M1	30	75
	Program Outputs	Midterm:Essay/ written	Quiz	Quiz	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	d	30	15	15	40	100	M1	30	75

Course Code	Program Outputs	Homework	Homework	Homework	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
IE 375	a	2	1	7	25	30	35	100	M1	30	75	
	Program Outputs	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
	b	100	100	M1	25	75						
	Program Outputs	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)						
	d	100	100	M1	25	75						

Course Code	Program Outputs	Project	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
IE 376	a	40	60	100	M1	30	75
	Program Outputs	Project	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	b	40	60	100	M1	30	75
	Program Outputs	Project	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	d	40	60	100	M1	30	75
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)	
	e	100	100	M1	30	75	

Course Code	Program Outputs	Midterm:Essay/ written	Project	Homework	Homework	Homework	Homework	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
IE 376	g	32	20	3,5	3,5	3,5	2,5	35	100	M1	30	75

Course Code	Program Outputs	Midterm	Midterm	Final	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 101	a	25	25	30	10	10	100	M1	40	50
	Program Outputs	Midterm	Midterm	Final	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	c	25	25	30	10	10	100	M1	40	50
	Program Outputs	Midterm	Midterm	Final	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	25	25	30	10	10	100	M1	40	50

Course Code	Program Outputs	Midterm:Essay/ written	Midterm: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	Homework	Homework	Homework	Homework	Homework	Midterm:Essay/ written	Midterm:Essay/ written	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
MATH 132	a	2	2	2	2	2	30	30	30	100	M1	40
		Qualification Threshold (%)										
		50										

Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 225	a	50	50	100	M1	40	50

Course Code	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 250	a	45	46	6	3	100	M1	20	75
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	c	45	46	6	3	100	M1	20	75
	Program Outputs	Midterm:Essay/ written	Final:Essay/ written	Quiz	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	45	46	6	3	100	M1	20	75

Course Code	Program Outputs	Homework	Homework	Homework	Homework	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 260	a	3,75	3,75	3,75	3,75	40	45	100	M1	30	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
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	15	20	10	10	25	20	100	M1	50	50
	Program Outputs	Midterm	Midterm	Quiz	Homework	Final	Lab work	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	15	20	10	10	25	20	100	M1	50	50

Course Code	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
TURK 101	c	70	30	100	M1	70	60
	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	70	30	100	M1	70	60

Course Code	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
TURK 102	c	70	30	100	M1	70	60
	Program Outputs	Blog	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	g	70	30	100	M1	70	60

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

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

- G = Bölüm tarafından belirlenmiş olan başarılı sayılabilecek minimum not / *G = Minimum grade that can be considered successful as determined by the department*
- T = Program çıktısı başarısı için eşik değer / *T = Threshold value for program output success*
- M1: Öğrencilerin %T'sinin 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*
CS 115 - Python ile Programlamaya Giriş / *CS 115 - Introduction to Programming in Python*													
a	M1	40	75	351	83	69.76	64.76	346	81	98.58	97.59	Yeterli √ / *Sufficient* √	97.59
CS 281 - Bilgisayarlar ve Veri Organizasyonu / *CS 281 - Computers and Data Organization*													
b	M1	40	75	146	128	75.39	75.22	146	128	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
f	M1	40	75	146	128	88.21	88.44	146	128	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
ECON 207 - Mühendisler İçin İktisat Kuramı / *ECON 207 - Economic Theory for Engineers*													
b	M3	40		112	107	75.81	75.68	111	106	99.11	99.07	Yeterli √ / *Sufficient* √	75.68
ENG 101 - İngilizce ve Kompozisyon I / *ENG 101 - English and Composition I*													
c	M1	70	75	1698	121	82.20	84.26	1560	117	91.87	96.69	Yeterli √ / *Sufficient* √	96.69
g	M1	70	75	1698	121	82.20	84.26	1560	117	91.87	96.69	Yeterli √ / *Sufficient* √	96.69
ENG 102 - İngilizce ve Kompozisyon II / *ENG 102 - English and Composition II*													
c	M1	70	70	543	48	85.44	88.64	526	48	96.87	100.00	Yeterli √ / *Sufficient* √	100.00
g	M1	70	70	543	48	85.44	88.64	526	48	96.87	100.00	Yeterli √ / *Sufficient* √	100.00
ENG 401 - Teknik Rapor Yazma ve Sunum / *ENG 401 - Technical Report Writing and Presentation*													
c	M1	70	80	266	58	88.72	88.03	266	58	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
g	M1	70	80	266	58	88.72	88.03	266	58	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
GE 100 - Üniversite Hayatına Giriş / *GE 100 - Orientation*													
c	M1	12	80	1681	122	97.14	98.77	1681	122	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
d	M1	12	80	1681	122	97.14	98.77	1681	122	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
g	M1	12	80	1681	122	97.14	98.77	1681	122	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
h	M1	12	80	1681	122	97.14	98.77	1681	122	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
GE 251 - Üniversite Etkinlik Programı II / *GE 251 - Collegiate Activities Program II*													
c	M1	70	70	838	62	93.01	94.19	776	59	92.60	95.16	Yeterli √ / *Sufficient* √	95.16
g	M1	70	70	838	62	93.01	94.19	776	59	92.60	95.16	Yeterli √ / *Sufficient* √	95.16
h	M1	70	70	838	62	93.01	94.19	776	59	92.60	95.16	Yeterli √ / *Sufficient* √	95.16
GE 301 - Bilim, Teknoloji ve Toplum / *GE 301 - Science Technology and Society*													
d	M1	45	60	366	128	82.99	81.42	366	128	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
e	M1	45	60	366	128	82.99	81.42	366	128	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
g	M1	45	60	366	128	82.99	81.42	366	128	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*
HIST 200 - Türkiye Tarihi / *HIST 200 - History of Turkey*													
c	M1	70	75	1055	64	93.35	93.90	1044	64	98.96	100.00	Yeterli √ / *Sufficient* √	100.00
e	M1	70	75	1055	64	93.35	93.90	1044	64	98.96	100.00	Yeterli √ / *Sufficient* √	100.00
g	M1	70	75	1055	64	93.35	93.90	1044	64	98.96	100.00	Yeterli √ / *Sufficient* √	100.00
HUM 111 - Kültürler, Medeniyetler ve Düşünceler I / *HUM 111 - Cultures Civilizations and Ideas I*													
c	M1	60	75	1110	110	83.62	83.41	1099	109	99.01	99.09	Yeterli √ / *Sufficient* √	99.09
g	M1	60	75	1110	110	83.62	83.41	1099	109	99.01	99.09	Yeterli √ / *Sufficient* √	99.09
HUM 112 - Kültürler, Medeniyetler ve Düşünceler II / *HUM 112 - Cultures Civilizations and Ideas II*													
c	M1	60	75	238	27	83.67	81.62	237	27	99.58	100.00	Yeterli √ / *Sufficient* √	100.00
g	M1	60	75	238	27	83.67	81.62	237	27	99.58	100.00	Yeterli √ / *Sufficient* √	100.00
IE 102 - Endüstri Mühendisliğinde Süreç Bakış Açısı / *IE 102 - A Process Outlook for Industrial Engineering*													
a	M1	30	75	148	132	74.02	74.61	148	132	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
d	M1	30	75	148	132	75.80	75.73	148	132	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
IE 202 - Modelleme ve Optimizasyona Giriş / *IE 202 - Introduction to Modeling and Optimization*													
a	M1	45	75	68	65	61.78	60.72	57	54	83.82	83.08	Yeterli √ / *Sufficient* √	83.08
b	M1	55	75	68	65	59.25	57.84	42	39	61.76	60.00	İyileştirmeye Açık! / *Insufficient!*	60.00
e	M1	60	75	68	65	68.42	67.82	52	49	76.47	75.38	Yeterli √ / *Sufficient* √	75.38
IE 272 - İmalat Süreçleri ve Operasyon Analizleri / *IE 272 - Manufacturing Processes and Operations Analysis*													
a	M1	30	75	108	108	71.78	71.78	108	108	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
b	M1	30	75	108	108	97.07	97.07	107	107	99.07	99.07	Yeterli √ / *Sufficient* √	99.07
d	M1	30	75	108	108	89.46	89.46	108	108	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
g	M1	30	75	108	108	85.87	85.87	108	108	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
IE 303 - Modelleme ve Optimizasyon Yöntemleri / *IE 303 - Modeling and Methods in Optimization*													
a	M1	30	75	123	122	52.98	53.00	120	119	97.56	97.54	Yeterli √ / *Sufficient* √	97.54
f	M1	30	75	123	122	52.89	52.90	120	119	97.56	97.54	Yeterli √ / *Sufficient* √	97.54
IE 324 - Simülasyon / *IE 324 - Simulation*													
a	M1	30	75	74	73	70.47	70.53	74	73	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
b	M1	30	75	74	73	70.67	70.88	71	70	95.95	95.89	Yeterli √ / *Sufficient* √	95.89
c	M1	30	75	74	73	66.34	66.39	73	72	98.65	98.63	Yeterli √ / *Sufficient* √	98.63
e	M1	30	75	74	73	71.39	71.63	74	73	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
f	M1	30	75	74	73	69.39	69.52	74	73	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*
IE 325 - Stokastik Modeller / *IE 325 - Stochastic Models*													
a	M1	30	75	127	122	59.94	59.39	127	122	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
IE 342 - Mühendislik Ekonomisi Analizi / *IE 342 - Engineering Economic Analysis*													
a	M1	25	75	98	54	57.85	55.26	97	53	98.98	98.15	Yeterli √ / *Sufficient* √	98.15
d	M1	25	75	98	54	57.85	55.26	97	53	98.98	98.15	Yeterli √ / *Sufficient* √	98.15
IE 375 - Üretim Planlama / *IE 375 - Production Planning*													
a	M1	30	75	124	123	69.25	69.27	124	123	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
b	M1	30	75	124	123	69.23	69.25	124	123	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
d	M1	30	75	124	123	69.25	69.27	124	123	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
IE 376 - Üretim Bilgi Sistemleri / *IE 376 - Production Information Systems*													
a	M1	30	75	60	60	68.12	68.12	60	60	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
b	M1	30	75	60	60	68.12	68.12	60	60	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
d	M1	30	75	60	60	68.12	68.12	60	60	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
e	M1	30	75	60	60	87.78	87.78	60	60	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
g	M1	30	75	60	60	66.30	66.30	60	60	100.00	100.00	Yeterli √ / *Sufficient* √	100.00
MATH 101 - Matematik I / *MATH 101 - Calculus I*													
a	M1	40	50	741	144	65.46	63.35	686	137	92.58	95.14	Yeterli √ / *Sufficient* √	95.14
c	M1	40	50	741	144	65.46	63.35	686	137	92.58	95.14	Yeterli √ / *Sufficient* √	95.14
e	M1	40	50	741	144	65.46	63.35	686	137	92.58	95.14	Yeterli √ / *Sufficient* √	95.14
MATH 102 - Matematik II / *MATH 102 - Calculus II*													
a	M1	40	50	215	44	54.07	48.43	156	29	72.56	65.91	Yeterli √ / *Sufficient* √	65.91
c	M1	40	50	215	44	54.07	48.43	156	29	72.56	65.91	Yeterli √ / *Sufficient* √	65.91
e	M1	40	50	215	44	54.07	48.43	156	29	72.56	65.91	Yeterli √ / *Sufficient* √	65.91
MATH 132 - Sonlu ve Kombinasyonal Matematik / *MATH 132 - Discrete and Combinatorial Mathematics*													
a	M1	40	50	178	77	57.34	50.34	150	62	84.27	80.52	Yeterli √ / *Sufficient* √	80.52
MATH 225 - Doğrusal Cebir ve Türevsel Denklemler / *MATH 225 - Linear Algebra and Differential Equations*													
a	M1	40	50	206	121	45.79	43.97	118	67	57.28	55.37	Yeterli √ / *Sufficient* √	55.37
MATH 250 - Olasılık Teorisine Giriş / *MATH 250 - Introduction to Probability*													
a	M1	20	75	143	130	44.28	41.82	130	117	90.91	90.00	Yeterli √ / *Sufficient* √	90.00
c	M1	20	75	143	130	44.28	41.82	130	117	90.91	90.00	Yeterli √ / *Sufficient* √	90.00
e	M1	20	75	143	130	44.28	41.82	130	117	90.91	90.00	Yeterli √ / *Sufficient* √	90.00
MATH 260 - İstatistiğe Giriş / *MATH 260 - Introduction to Statistics*													
a	M1	30	75	80	53	54.20	52.01	75	51	93.75	96.23	Yeterli √ / *Sufficient* √	96.23

Program Çıktısı / *Program Outcome*	Yeterlilik Hesaplama Yöntemi / *Method*	(Ortalama) Yeterlilik Notu / *Minimum Successful Grade*	Yeterlilik Eşiği (%) / *Treshold Percentage (%)*	Toplam Öğrenci Sayısı / *Number of Students (All)*	Toplam Dept. Öğrenci Sayısı / *Number of Students (Dept.)*	Tüm Öğrenci Ort. / *Average (All Std.)*	Dept. Öğrenci Ort. / *Average (Dept. Std.)*	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / *Number of Succ. Students (Dept.)*	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / *Success Ratio (Dept.)*	Performans / *Performance*	Yeterlilik Oranı / *Success Ratio*
PHYS 101 - Genel Fizik I / *PHYS 101 - General Physics I*													
a	M1	50	50	663	137	68.54	64.30	598	123	90.20	89.78	Yeterli √ / *Sufficient* √	89.78
b	M1	50	50	663	137	68.54	64.30	598	123	90.20	89.78	Yeterli √ / *Sufficient* √	89.78
e	M1	50	50	663	137	68.54	64.30	598	123	90.20	89.78	Yeterli √ / *Sufficient* √	89.78
g	M1	50	50	663	137	68.54	64.30	598	123	90.20	89.78	Yeterli √ / *Sufficient* √	89.78
PHYS 102 - Genel Fizik II / *PHYS 102 - General Physics II*													
a	M1	50	50	135	39	63.16	55.44	107	22	79.26	56.41	Yeterli √ / *Sufficient* √	56.41
b	M1	50	50	135	39	63.16	55.44	107	22	79.26	56.41	Yeterli √ / *Sufficient* √	56.41
e	M1	50	50	135	39	63.16	55.44	107	22	79.26	56.41	Yeterli √ / *Sufficient* √	56.41
g	M1	50	50	135	39	63.16	55.44	107	22	79.26	56.41	Yeterli √ / *Sufficient* √	56.41
TURK 101 - Türkçe I / *TURK 101 - Turkish I*													
c	M1	70	60	1516	123	87.68	88.49	1493	122	98.48	99.19	Yeterli √ / *Sufficient* √	99.19
g	M1	70	60	1516	123	87.68	88.49	1493	122	98.48	99.19	Yeterli √ / *Sufficient* √	99.19

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*
CS 115 - Python ile Programlamaya Giriş / *CS 115 - Introduction to Programming in Python*													
a	M1	40	75	245	70	67.23	64.49	236	68	96.33	97.14	Yeterli √ / *Sufficient* √	97.14
CS 281 - Bilgisayarlar ve Veri Organizasyonu / *CS 281 - Computers and Data Organization*													
b	M1	40	75	94	42	77.77	74.23	94	42	100	100	Yeterli √ / *Sufficient* √	100
f	M1	40	75	94	42	91.92	89.9	94	42	100	100	Yeterli √ / *Sufficient* √	100
ECON 207 - Mühendisler İçin İktisat Kuramı / *ECON 207 - Economic Theory for Engineers*													
b	M3	40		59	55	66.74	65.62	56	52	94.92	94.55	Yeterli √ / *Sufficient* √	65.62
ENG 101 - İngilizce ve Kompozisyon I / *ENG 101 - English and Composition I*													
c	M1	70	75	740	57	81.27	86.19	662	56	89.46	98.25	Yeterli √ / *Sufficient* √	98.25
g	M1	70	75	740	57	81.27	86.19	662	56	89.46	98.25	Yeterli √ / *Sufficient* √	98.25
ENG 101 - İngilizce ve Kompozisyon I / *ENG 102 - English and Composition II*													
c	M1	70	70	1495	122	84.92	85.47	1428	118	95.52	96.72	Yeterli √ / *Sufficient* √	96.72
g	M1	70	70	1495	122	84.92	85.47	1428	118	95.52	96.72	Yeterli √ / *Sufficient* √	96.72
ENG 401 - Teknik Rapor Yazma ve Sunum / *ENG 401 - Technical Report Writing and Presentation*													
c	M1	70	80	312	98	88.8	88.26	309	98	99.04	100	Yeterli √ / *Sufficient* √	100
g	M1	70	80	312	98	88.8	88.26	309	98	99.04	100	Yeterli √ / *Sufficient* √	100

Program Çıktısı / *Program Outcome*	Yeterlilik Hesaplama Yöntemi / *Method*	(Ortalama) Yeterlilik Notu / *Minimum Successful Grade*	Yeterlilik Eşiği (%) / *Treshold Percentage (%)*	Toplam Öğrenci Sayısı / *Number of Students (All)*	Toplam Dept. Öğrenci Sayısı / *Number of Students (Dept.)*	Tüm Öğrenci Ort. / *Average (All Std.)*	Dept. Öğrenci Ort. / *Average (Dept. Std.)*	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / *Number of Succ. Students (Dept.)*	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / *Success Ratio (Dept.)*	Performans / *Performance*	Yeterlilik Oranı / *Success Ratio*
GE 100 - Üniversite Hayatına Giriş / *GE 100 - Orientation*													
c	M1	12	80	587	51	96.22	97.35	587	51	100	100	Yeterli √ / *Sufficient* √	100
d	M1	12	80	587	51	96.22	97.35	587	51	100	100	Yeterli √ / *Sufficient* √	100
g	M1	12	80	587	51	96.22	97.35	587	51	100	100	Yeterli √ / *Sufficient* √	100
h	M1	12	80	587	51	96.22	97.35	587	51	100	100	Yeterli √ / *Sufficient* √	100
GE 251 - Üniversite Etkinlik Programı II / *GE 251 - Collegiate Activities Program II*													
c	M1	70	70	1375	102	93.49	96.18	1287	100	93.6	98.04	Yeterli √ / *Sufficient* √	98.04
g	M1	70	70	1375	102	93.49	96.18	1287	100	93.6	98.04	Yeterli √ / *Sufficient* √	98.04
h	M1	70	70	1375	102	93.49	96.18	1287	100	93.6	98.04	Yeterli √ / *Sufficient* √	98.04
GE 301 - Bilim, Teknoloji ve Toplum / *GE 301 - Science Technology and Society*													
d	M1	45	60	284	62	82.54	78.4	284	62	100	100	Yeterli √ / *Sufficient* √	100
e	M1	45	60	284	62	82.54	78.4	284	62	100	100	Yeterli √ / *Sufficient* √	100
g	M1	45	60	284	62	82.54	78.4	284	62	100	100	Yeterli √ / *Sufficient* √	100
HIST 200 - Türkiye Tarihi / *HIST 200 - History of Turkey*													
c	M1	70	75	968	99	92.06	94.79	931	99	96.18	100	Yeterli √ / *Sufficient* √	100
e	M1	70	75	968	99	92.06	94.79	931	99	96.18	100	Yeterli √ / *Sufficient* √	100
g	M1	70	75	968	99	92.06	94.79	931	99	96.18	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*
HUM 111 - Kültürler, Medeniyetler ve Düşünceler I / *HUM 111 - Cultures Civilizations and Ideas I*													
c	M1	60	75	465	43	80.91	80.8	457	43	98.28	100	Yeterli √ / *Sufficient* √	100
g	M1	60	75	465	43	80.91	80.8	457	43	98.28	100	Yeterli √ / *Sufficient* √	100
HUM 112 - Kültürler, Medeniyetler ve Düşünceler II / *HUM 112 - Cultures Civilizations and Ideas II*													
c	M1	60	75	937	115	85.62	86.04	930	115	99.25	100	Yeterli √ / *Sufficient* √	100
g	M1	60	75	937	115	85.62	86.04	930	115	99.25	100	Yeterli √ / *Sufficient* √	100
IE 102 - Endüstri Mühendisliğinde Süreç Bakış Açısı / *IE 102 - A Process Outlook for Industrial Engineering*													
a	M1	30	75	67	62	71.94	71.78	67	62	100	100	Yeterli √ / *Sufficient* √	100
d	M1	30	75	67	62	71.55	71.92	65	61	97.01	98.39	Yeterli √ / *Sufficient* √	98.39
IE 202 - Modelleme ve Optimizasyona Giriş / *IE 202 - Introduction to Modeling and Optimization*													
a	M1	45	75	108	107	68.68	68.52	102	101	94.44	94.39	Yeterli √ / *Sufficient* √	94.39
b	M1	55	75	108	107	45.53	45.48	30	30	27.78	28.04	İyileştirmeye Açık! / *Insufficient!*	28.04
e	M1	60	75	108	107	62.07	61.95	65	64	60.19	59.81	İyileştirmeye Açık! / *Insufficient!*	59.81
IE 272 - İmalat Süreçleri ve Operasyon Analizleri / *IE 272 - Manufacturing Processes and Operations Analysis*													
a	M1	30	75	63	63	72.18	72.18	63	63	100	100	Yeterli √ / *Sufficient* √	100
b	M1	30	75	63	63	96.49	96.49	63	63	100	100	Yeterli √ / *Sufficient* √	100
d	M1	30	75	63	63	89.32	89.32	63	63	100	100	Yeterli √ / *Sufficient* √	100
g	M1	30	75	63	63	85.19	85.19	63	63	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*
IE 303 - Modelleme ve Optimizasyon Yöntemleri / *IE 303 - Modeling and Methods in Optimization*													
a	M1	30	75	60	60	53.92	53.92	60	60	100	100	Yeterli √ / *Sufficient* √	100
f	M1	30	75	60	60	52.32	52.32	60	60	100	100	Yeterli √ / *Sufficient* √	100
IE 324 - Simülasyon / *IE 324 - Simulation*													
a	M1	30	75	112	112	68.06	68.06	111	111	99.11	99.11	Yeterli √ / *Sufficient* √	99.11
b	M1	30	75	112	112	67.83	67.83	105	105	93.75	93.75	Yeterli √ / *Sufficient* √	93.75
c	M1	30	75	112	112	66.46	66.46	109	109	97.32	97.32	Yeterli √ / *Sufficient* √	97.32
e	M1	30	75	112	112	65.49	65.49	102	102	91.07	91.07	Yeterli √ / *Sufficient* √	91.07
f	M1	30	75	112	112	67.25	67.25	110	110	98.21	98.21	Yeterli √ / *Sufficient* √	98.21
IE 325 - Stokastik Modeller / *IE 325 - Stochastic Models*													
a	M1	30	75	56	55	55.79	55.34	56	55	100	100	Yeterli √ / *Sufficient* √	100
IE 342 - Mühendislik Ekonomisi Analizi / *IE 342 - Engineering Economic Analysis*													
a	M1	30	75	159	97	61.66	61.54	159	97	100	100	Yeterli √ / *Sufficient* √	100
d	M1	30	75	159	97	61.66	61.54	159	97	100	100	Yeterli √ / *Sufficient* √	100
IE 375 - Üretim Planlama / *IE 375 - Production Planning*													
a	M1	30	75	54	54	61.13	61.13	54	54	100	100	Yeterli √ / *Sufficient* √	100
b	M1	25	75	54	54	65.48	65.48	54	54	100	100	Yeterli √ / *Sufficient* √	100
d	M1	25	75	54	54	65.48	65.48	54	54	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*
IE 376 - Üretim Bilgi Sistemleri / *IE 376 - Production Information Systems*													
a	M1	30	75	124	124	64.25	64.25	124	124	100	100	Yeterli √ / *Sufficient* √	100
b	M1	30	75	124	124	64.25	64.25	124	124	100	100	Yeterli √ / *Sufficient* √	100
d	M1	30	75	124	124	64.25	64.25	124	124	100	100	Yeterli √ / *Sufficient* √	100
e	M1	30	75	124	124	84.51	84.51	124	124	100	100	Yeterli √ / *Sufficient* √	100
g	M1	30	75	124	124	62.62	62.62	124	124	100	100	Yeterli √ / *Sufficient* √	100
MATH 101 - Matematik I / *MATH 101 - Calculus I*													
a	M1	40	50	263	55	58.04	57.38	217	51	82.51	92.73	Yeterli √ / *Sufficient* √	92.73
c	M1	40	50	263	55	58.04	57.38	217	51	82.51	92.73	Yeterli √ / *Sufficient* √	92.73
e	M1	40	50	263	55	58.04	57.38	217	51	82.51	92.73	Yeterli √ / *Sufficient* √	92.73
MATH 102 - Matematik II / *MATH 102 - Calculus II*													
a	M1	40	50	694	132	55.51	54.16	518	102	74.64	77.27	Yeterli √ / *Sufficient* √	77.27
c	M1	40	50	694	132	55.51	54.16	518	102	74.64	77.27	Yeterli √ / *Sufficient* √	77.27
e	M1	40	50	694	132	55.51	54.16	518	102	74.64	77.27	Yeterli √ / *Sufficient* √	77.27
MATH 132 - Sonlu ve Kombinasyonal Matematik / *MATH 132 - Discrete and Combinatorial Mathematics*													
a	M1	40	50	285	105	58.23	52.08	253	86	88.77	81.9	Yeterli √ / *Sufficient* √	81.9
MATH 225 - Doğrusal Cebir ve Türevsel Denklemler / MATH 225 - Linear Algebra and Differential Equations													
a	M1	40	50	209	56	47.58	43.03	128	31	61.24	55.36	Yeterli √ / *Sufficient* √	55.36

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 250 - Olasılık Teorisine Giriş / *MATH 250 - Introduction to Probability*													
a	M1	20	75	71	57	50.86	47.27	71	57	100	100	Yeterli √ / *Sufficient* √	100
c	M1	20	75	71	57	50.86	47.27	71	57	100	100	Yeterli √ / *Sufficient* √	100
e	M1	20	75	71	57	50.86	47.27	71	57	100	100	Yeterli √ / *Sufficient* √	100
MATH 260 - İstatistiğe Giriş / *MATH 260 - Introduction to Statistics*													
a	M1	30	75	168	122	53.66	49.2	156	110	92.86	90.16	Yeterli √ / *Sufficient* √	90.16
PHYS 101 - Genel Fizik I / *PHYS 101 - General Physics I*													
a	M1	50	50	274	54	65.93	68.8	223	52	81.39	96.3	Yeterli √ / *Sufficient* √	96.3
b	M1	50	50	274	54	65.93	68.8	223	52	81.39	96.3	Yeterli √ / *Sufficient* √	96.3
e	M1	50	50	274	54	65.93	68.8	223	52	81.39	96.3	Yeterli √ / *Sufficient* √	96.3
g	M1	50	50	274	54	65.93	68.8	223	52	81.39	96.3	Yeterli √ / *Sufficient* √	96.3
PHYS 102 - Genel Fizik II / *PHYS 102 - General Physics II*													
a	M1	50	50	647	139	64.72	59.99	549	108	84.85	77.7	Yeterli √ / *Sufficient* √	77.7
b	M1	50	50	647	139	64.72	59.99	549	108	84.85	77.7	Yeterli √ / *Sufficient* √	77.7
e	M1	50	50	647	139	64.72	59.99	549	108	84.85	77.7	Yeterli √ / *Sufficient* √	77.7
g	M1	50	50	647	139	64.72	59.99	549	108	84.85	77.7	Yeterli √ / *Sufficient* √	77.7

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*
TURK 101 - Türkçe I / *TURK 101 - Turkish I*													
c	M1	70	60	612	47	86.39	88.87	605	47	98.86	100	Yeterli √ / *Sufficient* √	100
g	M1	70	60	612	47	86.39	88.87	605	47	98.86	100	Yeterli √ / *Sufficient* √	100
TURK 102 - Türkçe II / *TURK 102 - Turkish II*													
c	M1	70	60	1438	133	88.83	90.07	1425	133	99.1	100	Yeterli √ / *Sufficient* √	100
g	M1	70	60	1438	133	88.83	90.07	1425	133	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
CS 115	✓							
CS 281		✓				✓		
ECON 207		✓						
ENG 101			✓				✓	
ENG 102			✓				✓	
ENG 401			✓				✓	
GE 100			✓	✓			✓	✓
GE 251			✓				✓	✓
GE 301				✓	✓		✓	
HIST 200			✓		✓		✓	
HUM 111			✓				✓	
HUM 112			✓				✓	
IE 102	✓			✓				
IE 202	✓	✗			✓			
IE 272	✓	✓		✓			✓	
IE 303	✓					✓		
IE 324	✓	✓	✓		✓	✓		
IE 325	✓							
IE 342	✓			✓				
IE 375	✓	✓		✓				
IE 376	✓	✓		✓	✓		✓	
MATH 101	✓		✓		✓			
MATH 102	✓		✓		✓			
MATH 132	✓							
MATH 225	✓							
MATH 250	✓		✓		✓			
MATH 260	✓							
PHYS 101	✓	✓			✓		✓	
PHYS 102	✓	✓			✓		✓	
TURK 101			✓				✓	

Tablo.4.3.1.1. 2023-2024 Akademik Yılı Güz Dönemi Endüstri Mühendisliği Lisans Programı Program Çıktıları Performans Tablosu / ***Table.4.3.1.1.*** *2023-2024 Academic Year Fall Semester Industrial Engineering 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
CS 115	✓							
CS 281		✓				✓		
ECON 207		✓						
ENG 101			✓				✓	
ENG 102			✓				✓	
ENG 401			✓				✓	
GE 100			✓	✓			✓	✓
GE 251			✓				✓	✓
GE 301				✓	✓		✓	
HIST 200			✓		✓		✓	
HUM 111			✓				✓	
HUM 112			✓				✓	
IE 102	✓			✓				
IE 202	✓	✗			✗			
IE 272	✓	✓		✓			✓	
IE 303	✓					✓		
IE 324	✓	✓	✓		✓	✓		
IE 325	✓							
IE 342	✓			✓				
IE 375	✓	✓		✓				
IE 376	✓	✓		✓	✓		✓	
MATH 101	✓		✓		✓			
MATH 102	✓		✓		✓			
MATH 132	✓							
MATH 225	✓							
MATH 250	✓		✓		✓			
MATH 260	✓							
PHYS 101	✓	✓			✓		✓	
PHYS 102	✓	✓			✓		✓	
TURK 101			✓				✓	
TURK 102			✓				✓	

Tablo.4.3.1.2. 2023-2024 Akademik Yılı Bahar Dönemi Endüstri Mühendisliği Lisans Programı Program Çıktıları Performans Tablosu / ***Table.4.3.1.2.*** *2023-2024 Academic Year Spring Semester Industrial Engineering 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
CS 115	97.59							
CS 281		100.00				100.00		
ECON 207		75.68						
ENG 101			96.69				96.69	
ENG 102			100.00				100.00	
ENG 401			100.00				100.00	
GE 100			100.00	100.00			100.00	100.00
GE 251			95.16				95.16	95.16
GE 301				100.00	100.00		100.00	
HIST 200			100.00		100.00		100.00	
HUM 111			99.09				99.09	
HUM 112			100.00				100.00	
IE 102	100.00			100.00				
IE 202	83.08	60.00			75.38			
IE 272	100.00	99.07		100.00			100.00	
IE 303	97.54					97.54		
IE 324	100.00	95.89	98.63		100.00	100.00		
IE 325	100.00							
IE 342	98.15			98.15				
IE 375	100.00	100.00		100.00				
IE 376	100.00	100.00		100.00	100.00		100.00	
MATH 101	95.14		95.14		95.14			
MATH 102	65.91		65.91		65.91			
MATH 132	80.52							
MATH 225	55.37							
MATH 250	90.00		90.00		90.00			
MATH 260	96.23							
PHYS 101	89.78	89.78			89.78		89.78	
PHYS 102	56.41	56.41			56.41		56.41	
TURK 101			99.19				99.19	

Tablo.4.3.2.1. 2023-2024 Akademik Yılı Güz Dönemi Endüstri Mühendisliği Lisans Programı Program Çıktıları Performans Oranları Tablosu / ***Table.4.3.2.1.*** *2023-2024 Academic Year Fall Semester Industrial Engineering Undergraduate Program - Program Outcomes Performance Rates Table*

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

Dersler / *Courses*	Program Çıktıları / *Program Outcomes*							
	a	b	c	d	e	f	g	h
CS 115	97.14							
CS 281		100				100		
ECON 207		65.62						
ENG 101			98.25				98.25	
ENG 102			96.72				96.72	
ENG 401			100				100	
GE 100			100	100			100	100
GE 251			98.04				98.04	98.04
GE 301				100	100		100	
HIST 200			100		100		100	
HUM 111			100				100	
HUM 112			100				100	
IE 102	100			98.39				
IE 202	94.39	28.04			59.81			
IE 272	100	100		100			100	
IE 303	100					100		
IE 324	99.11	93.75	97.32		91.07	98.21		
IE 325	100							
IE 342	100			100				
IE 375	100	100		100				
IE 376	100	100		100	100		100	
MATH 101	92.73		92.73		92.73			
MATH 102	77.27		77.27		77.27			
MATH 132	81.9							
MATH 225	55.36							
MATH 250	100		100		100			
MATH 260	90.16							
PHYS 101	96.3	96.3			96.3		96.3	
PHYS 102	77.7	77.7			77.7		77.7	
TURK 101			100				100	
TURK 102			100				100	

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

5. DEĞERLENDİRME / *EVALUATION*

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

Eğitimde Kalite Güvencesi kriterleri altında değerlendirme yaptığımız 2023-2024 akademik yılında müfredatımızda bulunan otuz zorunlu dersin yirmi dokuzunda program çıktılarının sağlanmasına yönelik belirlenen kriterlerin tümüne hem güz hem de bahar dönemlerinde çoğunluğu %90'ın üzerinde bir başarı ile ulaşıldığı gözlemlenmiştir.

When evaluated under the Quality Management in Education criterias, it was observed that in the fall and spring semesters of the 2023-2024 academic year, the specified criteria for ensuring program outcomes were reached (with a value over 90%) in twenty-nine of the thirty compulsory courses in the curriculum.

In IE 202 course measurements, which may be an exception to this situation; the "b" program outcome in the fall semester and the "b" and "e" program outcomes in the spring semester seem insufficient. When this situation was discussed with the relevant faculty members, it was learned that the measurement methods used in the criteria insufficient (certain parts of the course project for the relevant course) were not given the necessary attention by the students because they had little effect on the course evaluation. Starting from this point, it was realized in the fall semester, that it could not sufficiently meet the success criteria, and efforts were made to measure it with shorter projects in the spring semester. However, after observing that it was insufficient in the spring semester,too. It was decided to revise the measurement methods in the following academic year.

Since the "b" and "e" criteria, which were observed as insufficient in the IE 202 course, were also measured in other courses and were observed to be sufficient, it was concluded that there was no problem with these criteria when the entire program was taken into consideration.

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

In order to evaluate the educational objectives of the undergraduate program in the Department of Industrial Engineering, an Advisory Board has been formed with the participation of 21 representatives from different sectors whose names are listed in section 1.1.1 of this report. A meeting was held on September 26, 2023. In order to evaluate the educational objectives, the opinions of the board members were taken and a general evaluation was made.