

İÇİNDEKİLER / CONTENTS

1. LİSANS PROGRAMI / UNDERGRADUATE PROGRAM	2
1.1. MÜFREDAT / CURRICULUM.....	2
2. PROGRAM ÇIKTILARI / PROGRAM OUTCOMES	4
2.1. PROGRAM ÇIKTILARININ LİSTESİ / LIST OF PROGRAM OUTCOMES	4
2.2. PROGRAM ÇIKTILARI - DERSLER MATRİSİ / PROGRAM OUTCOMES - COURSES TABLE	6
3. PERFORMANS ÖLÇÜMLERİNDE KULLANILACAK METRİKLER / METRICS TO BE USED IN PERFORMANCE MEASUREMENT	7
3.1. PERFORMANS ÖLÇÜMLERİNDE KULLANILACAK DEĞERLENDİRME METOTLARI / EVALUATION METHODS USED IN PERFORMANCE MEASUREMENTS	7
3.2. PERFORMANS ÖLÇÜMLERİNDE KULLANILAN METOTLAR VE PERFORMANS SONUÇ DETAYLARI / METHODS USED IN PERFORMANCE MEASUREMENTS AND PERFORMANCE RESULT DETAILS	15
3.3. PERFORMANS ÖLÇÜM SONUÇLARI / PERFORMANCE MEASUREMENT RESULTS	20
3.3.1. PROGRAM ÇIKTILARI PERFORMANS TABLOSU / PROGRAM OUTCOMES PERFORMANCE TABLE	20
3.3.2. PROGRAM ÇIKTILARI PERFORMANS ORANLARI / PROGRAM OUTCOMES PERFORMANCE RATES	21

UYGULAMALI BİLİMLER FAKÜLTESİ / FACULTY OF
APPLIED SCIENCES

BİLİŞİM SİSTEMLERİ VE TEKNOLOJİLERİ LİSANS
PROGRAMI - CTIS / INFORMATION SYSTEMS AND
TECHNOLOGIES UNDERGRADUATE PROGRAM - CTIS

1. LİSANS PROGRAMI / UNDERGRADUATE PROGRAM

1.1. MÜFREDAT / CURRICULUM

Birinci Yıl / First Year					
Güz Dönemi / Fall Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
CTIS 151	Programlamaya Giriş / Introduction to Programming	3	4	4	6.5
CTIS 165	Bilişim Sistemlerinin Temelleri / Fundamentals of Information Systems	3	2	3	5
ENG 101	İngilizce ve Kompozisyon I / English and Composition I	5	0	3	5
GE 100	Üniversite Hayatına Giriş / Orientation	0	0	1	2
MATH 105	Matematiğe Giriş I / Introduction to Calculus I	4	0	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
CTIS 152	Algoritmalar ve Veri Yapıları / Algorithms and Data Structures	3	4	4	6.5
CTIS 163	Ayrık Matematik / Discrete Mathematics	3	0	3	5
CTIS 164	Teknik Matematik ve Programlama / Technical Mathematics with Programming	3	0	3	5
CTIS 166	Bilgi Teknolojileri / Information Technologies	3	2	3	5
ENG 102	İngilizce ve Kompozisyon II / English and Composition II	5	0	3	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
CTIS 221	Nesneye Yönelik Programlama / Object Oriented Programming	3	4	4	6.5
CTIS 255	Önyüz Web Teknolojileri / Frontend Web Technologies	3	0	3	5
CTIS 259	Veri Tabanı Yönetim Sistemleri ve Uygulamaları / Database Management Systems and Applications	3	3	4	6.5
CTIS 261	Bilgisayar Ağlarının Temelleri / Fundamentals of Computer Networks	3	2	3	5
ECON 103	İktisadın Temel İlkeleri / Principles of Economics	4	0	3	5
GE 250	Üniversite Etkinlik Programı I / Collegiate Activities Program I	0	0	0	1
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
CTIS 222	Nesneye Yönelik Analiz ve Tasarım / Object Oriented Analysis and Design	3	0	3	5
CTIS 256	Arkayüz Uygulama Geliştirmeye Giriş / Introduction to Backend Development	3	0	3	5
CTIS 262	Uygulamalı Bilgisayar Ağları / Applied Computer Networks	3	2	4	6.5
CTIS 264	Bilgisayar Algoritmaları / Computer Algorithms	3	2	3	5
GE 251	Üniversite Etkinlik Programı II / Collegiate Activities Program II	0	0	1	2
	Temel Fen Bilimleri Seçmeli Dersi / Science Core Elective			3	

Üçüncü Yıl / Third Year					
Güz Dönemi / Fall Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
COMD 358	Profesyonel İletişim / Professional Communication	3	0	3	5
CTIS 290	Yaz Stajı / Summer Internship	0	0	0	6
CTIS 359	Yazılım Mühendisliğinin Esasları / Principles of Software Engineering	3	0	3	5
CTIS 365	Uygulamalı Veri Analizi / Applied Data Analysis	3	2	4	6.5
CTIS 487	Mobil Uygulama Geliştirme / Mobile Application Development	3	2	4	6.5
HIST 200	Türkiye Tarihi / History of Turkey	3	0	4	6.5
Bahar Dönemi / Spring Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
CTIS 310	Dönem Stajı / Semester Internship		0	10	28.5

Dördüncü Yıl/ Fourth Year					
Güz Dönemi / Fall Semester					
Ders Kod / Course Code	Ders Adı / Course Name	Saatler / Hours		Kredi / Credits	
		Ders / Lecture	Lab / Stüdyo / Diğer / Lab / Studio / Others	Bilkent	ECTS
CTIS 363	Bilgi Sistemlerinde Etik ve Sosyal Konular / <i>Ethical and Social Issues in Information Systems</i>	3	0	3	5
CTIS 411	Bitirme Projesi I / <i>Senior Project I</i>	3	0	3	5
CTIS 496	Bilgisayar ve Ağ Güvenliği / <i>Computer and Network Security</i>	3	0	3	5
HCIV 101	Uygurluk Tarihi I / <i>History of Civilization I</i>	3	0	3	5
	Temel Sanat Seçmeli Dersi / <i>History of Civilization I</i>			3	
	Sınırlı Seçmeli Ders / <i>Restricted 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
CTIS 456	Bitirme Projesi II / <i>Senior Project II</i>	0	4	3	5
HCIV 102	Uygurluk Tarihi II / <i>History of Civilization II</i>	3	0	3	5
	Temel İnsani Bilimler Seçmeli Dersi / <i>Humanities Core Elective</i>			3	
	Sınırlı Seçmeli Ders (2) / <i>Restricted Elective (2)</i>			6	
	Serbest Seçmeli Ders / <i>Unrestricted Elective (2)</i>			3	

2. PROGRAM ÇIKTILARI / PROGRAM OUTCOMES

2.1. PROGRAM ÇIKTILARININ LİSTESİ / LIST OF PROGRAM OUTCOMES

- Karmaşık bir hesaplama problemini analiz eder ve çözümleri tanımlamak için bilişim ve diğer ilgili disiplinlerin prensiplerini uygular. / *Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.*
- Programın disiplini bağlamında verilen hesaplama gereksinimlerini karşılamak için bilişim tabanlı bir çözüm tasarlar, uygular ve değerlendirir. / *Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.*
- Çeşitli profesyonel çevrelerde etkili iletişim kurar. / *Communicate effectively in a variety of professional contexts.*
- Mesleki sorumlulukları tanır ve bilişim uygulamalarında yasal ve etik ilkelere dayalı bilinçli kararlar verir. / *Recognize professional responsibilities and make informed judgements in computing practice based on legal and ethical principles.*
- Programın disiplinine uygun etkinliklerde bulunan bir takımın üyesi veya lideri olarak etkin bir şekilde görev yapar. / *Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.*

- f. Bir bilişim sistemi ortamında sistemin teslimi ve kurulumunu, kullanımını ve yönetimini destekler. / *Support the delivery, use, and management of information systems within an information systems environment.*
- g. Öğrenciler, derslerin yanı sıra çeşitli ve yaratıcı, sanatsal, kültürel, sportif ve entelektüel faaliyetlere katılarak kampüs hayatından daha fazla faydalanırlar. / *Take advantage of the campus life where students are engaged in diversity, creativity and commitment outside coursework through artistic, cultural, sportive and intellectual activities.*

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

Dersler / Courses	Program Çıktıları / Program Outcomes						
	a	b	c	d	e	f	g
COMD 358			✓	✓	✓		
CTIS 151	✓						
CTIS 152	✓						
CTIS 163	✓						
CTIS 164	✓	✓					
CTIS 165	✓	✓			✓		
CTIS 166	✓	✓					
CTIS 221	✓	✓					
CTIS 222	✓	✓					
CTIS 255		✓					
CTIS 256	✓	✓		✓			
CTIS 259	✓	✓					
CTIS 261	✓	✓					
CTIS 262	✓	✓					
CTIS 264	✓	✓					
CTIS 290	✓		✓	✓	✓	✓	
CTIS 310	✓		✓	✓	✓	✓	
CTIS 359	✓						
CTIS 363	✓			✓			
CTIS 365	✓	✓	✓				
CTIS 411	✓	✓	✓		✓		
CTIS 456		✓	✓		✓	✓	
CTIS 487		✓					
CTIS 496	✓	✓					
ECON 103			✓				
ENG 101			✓				
ENG 102			✓				
GE 100			✓				✓
GE 250			✓				
GE 251			✓				✓
HIST 200			✓		✓		
TURK 101			✓				
TURK 102			✓				

Tablo.2.2. Bilişim Sistemleri ve Teknolojileri Lisans Programı - Program Çıktıları ve Dersler Tablosu / *Table.2.2. Information Systems and Technologies Undergraduate Program - Program Outcomes and Courses Table*

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

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

COMD 358	c	Homeworks	5	Homeworks	5	Homeworks	5	Homeworks	5	Homeworks	5	In-class assignments	5	In-class assignments	5	In-class assignments	5	In-class assignments	5	In-class assignments	5	Exam	25
		Project & Presentations		Total Contribution	100	Qualification Calculation Method	M1	(Average) Qualification Grade	60	Qualification Threshold (%)	70												
		25		25		25		25		25		25		25		25		25		25		25	
	d	Homeworks	5	Homeworks	5	Homeworks	5	Homeworks	5	Homeworks	5	In-class assignments	5	In-class assignments	5	In-class assignments	5	In-class assignments	5	In-class assignments	5	Exam	25
		Project & Presentations		Total Contribution	100	Qualification Calculation Method	M1	(Average) Qualification Grade	60	Qualification Threshold (%)	70												
		25		25		25		25		25		25		25		25		25		25		25	
	e	Homeworks	5	Homeworks	5	Homeworks	5	Homeworks	5	Homeworks	5	In-class assignments	5	In-class assignments	5	In-class assignments	5	In-class assignments	5	In-class assignments	5	Exam	25
		Project & Presentations		Total Contribution	100	Qualification Calculation Method	M1	(Average) Qualification Grade	60	Qualification Threshold (%)	70												
		25		25		25		25		25		25		25		25		25		25		25	
	Course Code	Program Outputs	Quiz	Midterm	Lab exam	Lab exam	Lab exam	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade												
	CTIS 151	a	5	15	15	15	25	25	100	M3	55												
	Course Code	Program Outputs	Quiz	Midterm	Lab exam	Lab exam	Lab exam	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade												
CTIS 152	a	5	15	15	15	25	25	100	M3	55													

Course Code	Program Outputs	Midterm	Midterm	Final:Essay /written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade				
CTIS 163	a	30	30	40	100	M3	55				
Course Code	Program Outputs	Homework	Homework	Homework	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade		
CTIS 164	a	16	16	16	26	26	100	M3	50		
	Program Outputs	Homework	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade				
	b	33	33	34	100	M3	60				
Course Code	Program Outputs	Quiz	Lab exam	Lab exam	Midterm:Essay /written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade		
CTIS 165	a	10	10	10	30	40	100	M3	55		
	Program Outputs	Lab exam	Lab exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade					
	b	50	50	100	M3	70					
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade						
	c	100	100	M3	80						
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade						
	e	100	100	M3	70						
Course Code	Program Outputs	Midterm:Essay /written	Lab exam	Final:Practical(skills)	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade				
CTIS 221	a	30	30	40	100	M3	55				
	Program Outputs	Lab exam	Term Project	Final:Practical(skills)	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade			
	b	16	50	30	4	100	M3	55			

Course Code	Program Outputs	Midterm	Midterm	Project	Final: Practical (skills)	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade				
CTIS 255	b	25	25	15	35	100	M3	40				
Course Code	Program Outputs	Midterm	Final:Essay/written	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade					
CTIS 259	a	20	50	30	100	M3	50					
	Program Outputs	Midterm	Lab exam	Final:Essay/written	Midterm	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade			
	b	10	60	10	10	10	100	M3	50			
Course Code	Program Outputs	Midterm Exam	Midterm Exam	Final Exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade					
CTIS 261	a	30	30	40	100	M3	50					
	Program Outputs	Homework	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade						
	b	50	50	100	M3	60						
Course Code	Program Outputs	Midterm:Essay/written	Lab Exam:Packet Tracer	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade					
CTIS 262	a	25	25	50	100	M3	50					
	Program Outputs	Homework1: Packet Tracer	Homework2: Packet Tracer	Homework3: Packet Tracer	Midterm:Essay/written	Project: Packet Tracer	Lab Exam:Packet Tracer	Final:Essay/written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	
	b	5	5	5	25	12	13	35	100	M3	60	
Course Code	Program Outputs	Midterm	Midterm	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade					
CTIS 264	a	30	30	40	100	M3	50					
	Program Outputs	Midterm	Midterm	Lab exam	Lab exam	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade			
	b	20	20	15	20	25	100	M3	50			

Course Code	Program Outputs	Follow Up1	Follow Up2	Follow Up3	Follow Up4	Follow Up5	Interim Meeting	Reports about an internship	Company Evaluation	Jury	Total Contribution	Qualification Calculation Method	
CTIS 310	a	3	3	3	3	3	5	15	40	25	100	M3	
		(Average) Qualification Grade											
		75											
	Program Outputs	Follow Up1	Follow Up2	Follow Up3	Follow Up4	Follow Up5	Interim Meeting	Reports about an internship	Company Evaluation	Jury	Total Contribution	Qualification Calculation Method	
	c	5	5	5	5	5	10	30	20	15	100	M3	
		(Average) Qualification Grade											
		75											
	Program Outputs	Reports about an internship	Company Evaluation	Jury	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade						
	d	10	80	10	100	M3	75						
	Program Outputs	Company Evaluation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade								
e	100	100	M3	75									
Program Outputs	Reports about an internship	Company Evaluation	Jury	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade							
f	15	70	15	100	M3	75							
Course Code	Program Outputs	Final:Essay / written	Midterm:Essay / written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade							
CTIS 359	a	50	50	100	M3	55							
	Program Outputs	Project	Project	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade						
	c	25	25	50	100	M3	55						
	Program Outputs	Project	Project	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade						
e	25	25	50	100	M3	55							

Course Code	Program Outputs	Homework	Homework	Homework	Midterm	Term project	Final:Take-home	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	
CTIS 363	a	5	5	10	20	25	35	100	M3	55	
	Program Outputs	Homework	Term project	Final:Take-home	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade				
	c	10	45	45	100	M3	55				
	Program Outputs	Homework	Homework	Homework	Midterm	Term project	Final:Take-home	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	
	d	5	5	10	20	25	35	100	M3	55	
	Program Outputs	Homework	Term project	Final:Take-home	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade				
e	10	45	45	100	M3	55					
Course Code	Program Outputs	Midterm:Essay /written	Final:Essay / written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade					
CTIS 365	a	45	55	100	M3	55					
	Program Outputs	Lab Quiz1	Lab Quiz2	Lab Project	Lab Exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade			
	b	20	20	20	40	100	M3	60			
	Program Outputs	Term Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade						
c	100	100	M3	60							
Course Code	Program Outputs	Papers(s) / Reports	Papers(s) / Reports	Papers(s) / Reports	Papers(s) / Reports	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade		
CTIS 411	a	20	20	20	20	20	100	M3	70		
	Program Outputs	Project	Papers(s) / Reports	Quiz	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade			
	b	20	30	20	30	100	M3	70			
	Program Outputs	Papers(s) / Reports	Papers(s) / Reports	Project	Papers(s) / Reports	Papers(s) / Reports	Project	Presentations	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
	c	10	10	10	10	10	10	40	100	M3	70
	Program Outputs	Papers(s) / Reports	Papers(s) / Reports	Project	Papers(s) / Reports	Papers(s) / Reports	Project	Presentations	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade
e	10	10	10	10	10	10	40	10	100	M3	70

Course Code	Program Outputs	Homework1	Homework2	Midterm	Group Project	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade			
CTIS 487	b	5	5	40	10	40	100	M3	50			
Course Code	Program Outputs	Midterm	Final:Essay / written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade						
CTIS 496	a	50	50	100	M3	50						
	Program Outputs	Midterm	Final:Essay / written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade						
	b	50	50	100	M3	50						
Course Code	Program Outputs	Midterm	Midterm	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade						
ECON 103	c	50	50	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
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	
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 (%)						
	g	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					
Course Code	Program Outputs	Essay	Video Project	Midterm: Takehome	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
HCIV 101	c	20	30	20	30	100	M1	70	75		
	Program Outputs	Essay	Video Project	Midterm: Takehome	Final	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	e	20	30	20	30	100	M1	70	75		
Course Code	Program Outputs	Final	Midterm: Takehome	Essay	Video Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
HCIV 102	c	30	20	20	30	100	M1	70	75		
	Program Outputs	Final	Midterm: Takehome	Essay	Video Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)		
	e	30	20	20	30	100	M1	70	75		
Course Code	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
HIST 200	c	10	60	30	100	M1	70	75			
	Program Outputs	Oral presentation	Research essay	Performance	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)			
	e	10	60	30	100	M1	70	75			
Course Code	Program Outputs	Midterm:Essay / written	Final:Essay / written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)				
MATH 105	a	50	50	100	M1	40	40				

Course Code	Program Outputs	Midterm:Essay / written	Final:Essay / written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
MATH 105	c	50	50	100	M1	40	40
	Program Outputs	Midterm:Essay / written	Final:Essay / written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	50	50	100	M1	40	40
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 102	c	70	30	100	M1	70	60

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

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

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

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

Program Çıktısı/ Program Outcome	Yeterlilik Hesaplama Yöntemi/ Method	(Ortalama) Yeterlilik Notu/ Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı/ Number of Students (All)	Toplam Dept. Öğrenci Sayısı/ Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
COMD 358 - Profesyonel İletişim / COMD 358 - Professional Communication													
c	M1	60	70	400	64	83.62	82.79	398	64	99.50	100.00	Yeterli ✓ / Sufficient ✓	100.00
d	M1	60	70	400	64	83.62	82.79	398	64	99.50	100.00	Yeterli ✓ / Sufficient ✓	100.00
e	M1	60	70	400	64	83.62	82.79	398	64	99.50	100.00	Yeterli ✓ / Sufficient ✓	100.00
CTIS 151 - Programlamaya Giriş / CTIS 151 - Introduction to Programming													
a	M3	55		100	85	81.47	81.24	94	79	94.00	92.94	Yeterli ✓ / Sufficient ✓	81.24
CTIS 151 - Programlamaya Giriş / CTIS 152 - Algorithms and Data Structures													
a	M3	55		31	24	67.05	63.75	23	17	74.19	70.83	Yeterli ✓ / Sufficient ✓	63.75
CTIS 163 - Ayrık Matematik / CTIS 163 - Discrete Mathematics													
a	M3	55		25	24	64.61	64.28	16	15	64.00	62.50	Yeterli ✓ / Sufficient ✓	64.28
CTIS 164 - Teknik Matematik ve Programlama / CTIS 164 - Technical Mathematics with Programming													
a	M3	50		25	25	74.81	74.81	23	23	92.00	92.00	Yeterli ✓ / Sufficient ✓	74.81
b	M3	60		25	25	79.41	79.41	22	22	88.00	88.00	Yeterli ✓ / Sufficient ✓	79.41
CTIS 165 - Bilişim Sistemlerinin Temelleri / CTIS 165 - Fundamentals of Information Systems													
a	M3	55		93	90	68.36	69.06	69	69	74.19	76.67	Yeterli ✓ / Sufficient ✓	69.06
b	M3	70		93	90	87.37	88.43	80	79	86.02	87.78	Yeterli ✓ / Sufficient ✓	88.43
c	M3	80		93	90	89.50	89.17	76	73	81.72	81.11	Yeterli ✓ / Sufficient ✓	89.17
e	M3	70		93	90	89.50	89.17	87	84	93.55	93.33	Yeterli ✓ / Sufficient ✓	89.17

Program Çıktısı / Program Outcome	Yeterlilik Hesaplama Yöntemi / Method	(Ortalama) Yeterlilik Notu / Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı / Number of Students (All)	Toplam Dept. Öğrenci Sayısı / Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
CTIS 221 - Nesneye Yönelik Programlama / CTIS 221 - Object Oriented Programming													
a	M3	55		72	63	64.20	63.52	44	36	61.11	57.14	Yeterli ✓ / Sufficient ✓	63.52
b	M3	55		72	63	75.74	75.30	70	61	97.22	96.83	Yeterli ✓ / Sufficient ✓	75.30
CTIS 255 - Önyüz Web Teknolojileri / CTIS 255 - Frontend Web Technologies													
b	M3	40		71	65	64.70	64.65	71	65	100.00	100.00	Yeterli ✓ / Sufficient ✓	64.65
CTIS 259 - Veri Tabanı Yönetim Sistemleri ve Uygulamaları / CTIS 259 - Database Management Systems and Applications													
a	M3	50		82	77	65.88	65.46	71	66	86.59	85.71	Yeterli ✓ / Sufficient ✓	65.46
b	M3	50		82	77	73.95	73.24	68	63	82.93	81.82	Yeterli ✓ / Sufficient ✓	73.24
CTIS 261 - Bilgisayar Ağlarının Temelleri / CTIS 261 - Fundamentals of Computer Networks													
a	M3	50		73	73	60.64	60.64	52	52	71.23	71.23	Yeterli ✓ / Sufficient ✓	60.64
b	M3	60		73	73	96.07	96.07	72	72	98.63	98.63	Yeterli ✓ / Sufficient ✓	96.07
CTIS 262 - Uygulamalı Bilgisayar Ağları / CTIS 262 - Applied Computer Networks													
a	M3	50		21	21	47.17	47.17	8	8	38.10	38.10	İyileştirmeye Açık! / Insufficient!	47.17
b	M3	60		21	21	58.40	58.40	9	9	42.86	42.86	İyileştirmeye Açık! / Insufficient!	58.40
CTIS 264 - Bilgisayar Algoritmaları / CTIS 264 - Computer Algorithms													
a	M3	50		26	25	61.19	61.47	18	17	69.23	68.00	Yeterli ✓ / Sufficient ✓	61.47
b	M3	50		26	25	71.30	71.60	26	25	100.00	100.00	Yeterli ✓ / Sufficient ✓	71.60
CTIS 310 - Dönem Stajı / CTIS 310 - Semester Internship													
a	M3	75		27	27	94.17	94.17	26	26	96.30	96.30	Yeterli ✓ / Sufficient ✓	94.17
c	M3	75		27	27	92.57	92.57	26	26	96.30	96.30	Yeterli ✓ / Sufficient ✓	92.57
d	M3	75		27	27	96.17	96.17	27	27	100.00	100.00	Yeterli ✓ / Sufficient ✓	96.17
e	M3	75		27	27	97.07	97.07	27	27	100.00	100.00	Yeterli ✓ / Sufficient ✓	97.07
f	M3	75		27	27	95.71	95.71	27	27	100.00	100.00	Yeterli ✓ / Sufficient ✓	95.71

Program Çıktısı / Program Outcome	Yeterlilik Hesaplama Yöntemi / Method	(Ortalama) Yeterlilik Notu / Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı / Number of Students (All)	Toplam Dept. Öğrenci Sayısı / Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
CTIS 359 - Yazılım Mühendisliğinin Esasları / CTIS 359 - Principles of Software Engineering													
a	M3	55		88	84	55.56	55.21	46	43	52.27	51.19	Yeterli ✓ / Sufficient ✓	55.21
c	M3	55		88	84	83.28	83.08	86	82	97.73	97.62	Yeterli ✓ / Sufficient ✓	83.08
e	M3	55		88	84	83.28	83.08	86	82	97.73	97.62	Yeterli ✓ / Sufficient ✓	83.08
CTIS 363 - Bilişim Etiği / CTIS 363 - Ethical and Social Issues in Information Systems													
a	M3	55		39	39	75.07	75.07	35	35	89.74	89.74	Yeterli ✓ / Sufficient ✓	75.07
c	M3	55		39	39	72.04	72.04	37	37	94.87	94.87	Yeterli ✓ / Sufficient ✓	72.04
d	M3	55		39	39	75.07	75.07	35	35	89.74	89.74	Yeterli ✓ / Sufficient ✓	75.07
e	M3	55		39	39	72.04	72.04	37	37	94.87	94.87	Yeterli ✓ / Sufficient ✓	72.04
CTIS 365 - Uygulamalı Veri Analizi / CTIS 365 - Applied Data Analysis													
a	M3	55		95	94	55.71	55.32	51	50	53.68	53.19	Yeterli ✓ / Sufficient ✓	55.32
b	M3	60		95	94	93.11	93.04	94	93	98.95	98.94	Yeterli ✓ / Sufficient ✓	93.04
c	M3	60		95	94	62.92	62.63	68	67	71.58	71.28	Yeterli ✓ / Sufficient ✓	62.63
CTIS 411 - Bitirme Projesi I / CTIS 411 - Senior Project I													
a	M3	70		64	64	68.67	68.67	26	26	40.63	40.63	İyileştirmeye Açık! / Insufficient!	68.67
b	M3	70		64	64	69.04	69.04	33	33	51.56	51.56	İyileştirmeye Açık! / Insufficient!	69.04
c	M3	70		64	64	72.96	72.96	45	45	70.31	70.31	Yeterli ✓ / Sufficient ✓	72.96
e	M3	70		64	64	70.91	70.91	35	35	54.69	54.69	Yeterli ✓ / Sufficient ✓	70.91

Program Çıktısı / Program Outcome	Yeterlilik Hesaplama Yöntemi / Method	(Ortalama) Yeterlilik Notu / Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı / Number of Students (All)	Toplam Dept. Öğrenci Sayısı / Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
CTIS 487 - Mobil Uygulama Geliştirme / CTIS 487 - Mobile Application Development													
b	M3	50		83	83	65.43	65.43	65	65	78.31	78.31	Yeterli ✓ / Sufficient ✓	65.43
CTIS 496 - Bilgisayar ve Ağ Güvenliği / CTIS 496 - Computer and Network Security													
a	M3	50		54	49	62.21	61.08	39	35	72.22	71.43	Yeterli ✓ / Sufficient ✓	61.08
b	M3	50		54	49	62.21	61.08	39	35	72.22	71.43	Yeterli ✓ / Sufficient ✓	61.08
ECON 103 - İktisadın Temel İlkeleri / ECON 103 - Principles of Economics													
c	M3	40		231	76	70.05	69.76	219	71	94.81	93.42	Yeterli ✓ / Sufficient ✓	69.76
ENG 101 - İngilizce ve Kompozisyon I / ENG 101 - English and Composition I													
c	M1	70	75	1698	91	82.20	80.09	1560	83	91.87	91.21	Yeterli ✓ / Sufficient ✓	91.21
ENG 102 - İngilizce ve Kompozisyon II / ENG 102 - English and Composition II													
c	M1	70	70	543	23	85.44	82.54	526	21	96.87	91.30	Yeterli ✓ / Sufficient ✓	91.30
GE 100 - Üniversite Hayatına Giriş / GE 100 - Orientation													
c	M1	12	80	1681	92	97.14	97.50	1681	92	100.00	100.00	Yeterli ✓ / Sufficient ✓	100.00
g	M1	12	80	1681	92	97.14	97.50	1681	92	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	47	93.01	92.34	776	45	92.60	95.74	Yeterli ✓ / Sufficient ✓	95.74
g	M1	70	70	838	47	93.01	92.34	776	45	92.60	95.74	Yeterli ✓ / Sufficient ✓	95.74
HCIV 101 - Uygarlık Tarihi I / HCIV 101 - History of Civilization I													
c	M1	70	75	374	50	85.28	83.43	344	46	91.98	92.00	Yeterli ✓ / Sufficient ✓	92.00
e	M1	70	75	374	50	85.28	83.43	344	46	91.98	92.00	Yeterli ✓ / Sufficient ✓	92.00

Program Çıktısı / Program Outcome	Yeterlilik Hesaplama Yöntemi / Method	(Ortalama) Yeterlilik Notu / Minimum Successful Grade	Yeterlilik Eşiği (%) / Threshold Percentage (%)	Toplam Öğrenci Sayısı / Number of Students (All)	Toplam Dept. Öğrenci Sayısı / Number of Students (Dept.)	Tüm Öğrenci Ort. / Average (All Std.)	Dept. Öğrenci Ort. / Average (Dept. Std.)	Yeterliliği Sağlayan Öğrenci Sayısı (Toplam) / Number of Succ. Students (All)	Yeterliliği Sağlayan Öğrenci Sayısı (Dept.) / Number of Succ. Students (Dept.)	Yeterlilik Oranı (Toplam Öğrenci) / Success Ratio (All)	Yeterlilik Oranı (Bölüm Öğrenci) / Success Ratio (Dept.)	Performans / Performance	Yeterlilik Oranı / Success Ratio
HCIV 102 - Uygarlık Tarihi II / HCIV 102 - History of Civilization II													
c	M1	70	75	88	3	84.05	81.83	84	3	95.45	100.00	Yeterli ✓ / Sufficient ✓	100.00
e	M1	70	75	88	3	84.05	81.83	84	3	95.45	100.00	Yeterli ✓ / Sufficient ✓	100.00
HIST 200 - Türkiye Tarihi / HIST 200 - History of Turkey													
c	M1	70	75	1055	61	93.35	92.22	1044	60	98.96	98.36	Yeterli ✓ / Sufficient ✓	98.36
e	M1	70	75	1055	61	93.35	92.22	1044	60	98.96	98.36	Yeterli ✓ / Sufficient ✓	98.36
MATH 105 - Matematiğe Giriş I / MATH 105 - Introduction to Calculus I													
a	M1	40	40	428	91	57.41	63.20	347	83	81.07	91.21	Yeterli ✓ / Sufficient ✓	91.21
c	M1	40	40	428	91	57.41	63.20	347	83	81.07	91.21	Yeterli ✓ / Sufficient ✓	91.21
e	M1	40	40	428	91	57.41	63.20	347	83	81.07	91.21	Yeterli ✓ / Sufficient ✓	91.21
TURK 101 - Türkçe I / TURK 101 - Turkish I													
c	M1	70	60	1516	79	87.68	87.45	1493	77	98.48	97.47	Yeterli ✓ / Sufficient ✓	97.47
TURK 102 - Türkçe II / TURK 102 - Turkish II													
c	M1	70	60	492	21	90.84	86.55	487	21	98.98	100.00	Yeterli ✓ / Sufficient ✓	100.00

3.3. PERFORMANS ÖLÇÜM SONUÇLARI / PERFORMANCE MEASUREMENT RESULTS

3.3.1. PROGRAM ÇIKTILARI PERFORMANS TABLOSU / PROGRAM OUTCOMES PERFORMANCE TABLE

Dersler / Courses	Program Çıktıları / Program Outcomes						
	a	b	c	d	e	f	g
COMD 358			✓	✓	✓		
CTIS 151	✓						
CTIS 152	✓						
CTIS 163	✓						
CTIS 164	✓	✓					
CTIS 165	✓	✓	✓		✓		
CTIS 221	✓	✓					
CTIS 255		✓					
CTIS 259	✓	✓					
CTIS 261	✓	✓					
CTIS 262	X	X					
CTIS 264	✓	✓					
CTIS 310	✓		✓	✓	✓	✓	
CTIS 359	✓		✓		✓		
CTIS 363	✓		✓	✓	✓		
CTIS 365	✓	✓	✓				
CTIS 411	X	X	✓		✓		
CTIS 487		✓					
CTIS 496	✓	✓					
ECON 103			✓				
ENG 101			✓				
ENG 102			✓				
GE 100			✓				✓
GE 251			✓				✓
HCIV 101			✓		✓		
HCIV 102			✓		✓		
HIST 200			✓		✓		
MATH 105	✓		✓		✓		
TURK 101			✓				
TURK 102			✓				

Tablo.3.3.1. 2023-2024 Akademik Yılı Güz Dönemi Bilişim Sistemleri ve Teknolojileri Lisans Programı Program Çıktıları Performans Tablosu / **Table.3.3.1.** 2023-2024 Academic Year Fall Semester Information Systems and Technologies Undergraduate Program - Program Outcomes Performance Table

3.3.2. PROGRAM ÇIKTILARI PERFORMANS ORANLARI / PROGRAM OUTCOMES PERFORMANCE RATES

Dersler / Courses	Program Çıktıları / Program Outcomes						
	a	b	c	d	e	f	g
COMD 358			100.00	100.00	100.00		
CTIS 151	81.24						
CTIS 152	63.75						
CTIS 163	64.28						
CTIS 164	74.81	79.41					
CTIS 165	69.06	88.43	89.17		89.17		
CTIS 221	63.52	75.30					
CTIS 255		64.65					
CTIS 259	65.46	73.24					
CTIS 261	60.64	96.07					
CTIS 262	47.17	58.40					
CTIS 264	61.47	71.60					
CTIS 310	94.17		92.57	96.17	97.07	95.71	
CTIS 359	55.21		83.08		83.08		
CTIS 363	75.07		72.04	75.07	72.04		
CTIS 365	55.32	93.04	62.63				
CTIS 411	68.67	69.04	72.96		70.91		
CTIS 487		65.43					
CTIS 496	61.08	61.08					
ECON 103			69.76				
ENG 101			91.21				
ENG 102			91.30				
GE 100			100.00				100.00
GE 251			95.74				95.74
HCIV 101			92.00		92.00		
HCIV 102			100.00		100.00		
HIST 200			98.36		98.36		
MATH 105	91.21		91.21		91.21		
TURK 101			97.47				
TURK 102			100.00				

Tablo.3.3.2. 2023-2024 Akademik Yılı Güz Dönemi Bilişim Sistemleri ve Teknolojileri Lisans Programı Program Çıktıları Performans Oranları Tablosu / **Table.3.3.2.** 2023-2024 Academic Year Fall Semester Information Systems and Technologies Undergraduate Program - Program Outcomes Performance Rates Table