

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	19
3.3.1. PROGRAM ÇIKTILARI PERFORMANS TABLOSU / PROGRAM OUTCOMES PERFORMANCE TABLE	19
3.3.2. PROGRAM ÇIKTILARI PERFORMANS ORANLARI / PROGRAM OUTCOMES PERFORMANCE RATES	20

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 163	Ayrık Matematik / Discrete Mathematics	3	0	3	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
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 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
	Matematik Seçmeli Dersi / Mathematics Elective			4	

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 / <i>Object Oriented Programming</i>	3	4	4	6.5
CTIS 255	Önyüz Web Teknolojileri / <i>Frontend Web Technologies</i>	3	0	3	5
CTIS 259	Veri Tabanı Yönetim Sistemleri ve Uygulamaları / <i>Database Management Systems and Applications</i>	3	3	4	6.5
CTIS 261	Bilgisayar Ağlarının Temelleri / <i>Fundamentals of Computer Networks</i>	3	2	3	5
ECON 103	İktisadın Temel İlkeleri / <i>Principles of Economics</i>	4	0	3	5
GE 250	Üniversite Etkinlik Programı I / <i>Collegiate Activities Program I</i>	0	0	0	1
	Temel Sosyal Bilimler Seçmeli Dersi / <i>Social Sciences Core 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 222	Nesneye Yönelik Analiz ve Tasarım / <i>Object Oriented Analysis and Design</i>	3	0	3	5
CTIS 256	Arkayüz Uygulama Geliştirmeye Giriş / <i>Introduction to Backend Development</i>	3	0	3	5
CTIS 264	Bilgisayar Algoritmaları / <i>Computer Algorithms</i>	3	2	3	5
GE 251	Üniversite Etkinlik Programı II / <i>Collegiate Activities Program II</i>	0	0	1	2
	Genel Seçmeli Ders / <i>General Electives</i>			3	
	Temel Fen Bilimleri Seçmeli Dersi / <i>Science Core Elective</i>			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 / <i>Professional Communication</i>	3	0	3	5
CTIS 290	Yaz Stajı / <i>Summer Internship</i>	0	0	0	6
CTIS 359	Yazılım Mühendisliğinin Esasları / <i>Principles of Software Engineering</i>	3	0	3	5
CTIS 365	Uygulamalı Veri Analizi / <i>Applied Data Analysis</i>	3	2	4	6.5
CTIS 487	Mobil Uygulama Geliştirme / <i>Mobile Application Development</i>	3	2	4	6.5
HIST 200	Türkiye Tarihi / <i>History of Turkey</i>	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 / <i>Semester Internship</i>		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 411	Bitirme Projesi I/ Senior Project I	3	0	3	5
CTIS 496	Bilgisayar ve Ağ Güvenliği / Computer and Network Security	3	0	3	5
HCIV 101	Uygarlık Tarihi I / History of Civilization I	3	0	3	5
	Temel Sanat Seçmeli Dersi / History of Civilization I			3	
	Bilişim Sistemleri Seçmeli Ders (2) / Information Systems Restricted Elective (2)			6	
Bahar Dönemi/ Spring Semester					
Ders Kod/ Course Code	Ders Adı/ Course Name	Saatler/ Hours		Kredi/ Credits	
		Ders/ Lecture	Lab/ Stüdyo/ Diğer/ Lab/ Studio/ Others	Bilkent	ECTS
CTIS 456	Bitirme Projesi II / Senior Project II	0	4	3	5
HCIV 102	Uygarlık Tarihi II / History of Civilization II	3	0	3	5
	Genel Seçmeli Ders / General Electives			3	
	Temel İnsani Bilimler Seçmeli Dersi / Humanities Core Elective			3	
	Bilişim Sistemleri Seçmeli Ders (2) / Information Systems Restricted Elective (2)			6	

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 264	✓	✓					
CTIS 290	✓		✓	✓	✓	✓	
CTIS 310	✓		✓	✓	✓	✓	
CTIS 359	✓		✓				
CTIS 365	✓	✓	✓				
CTIS 411	✓	✓	✓		✓		
CTIS 456		✓	✓		✓	✓	
CTIS 487		✓					
CTIS 496	✓	✓					
ENG 101			✓				
ENG 102			✓				
GE 100			✓				✓
GE 250			✓				
GE 251			✓				✓
HCIV 101			✓		✓		
HCIV 102			✓		✓		
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

Course Code	Program Outputs	Homework	Homework	Homework	Homework	Midterm	Presentations	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
COMD 358	c	5	5	5	5	30	40	10	100	M1	60	70
	Program Outputs	Homework	Homework	Homework	Homework	Midterm	Presentations	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	d	5	5	5	5	30	40	10	100	M1	60	70
	Program Outputs	Homework	Homework	Homework	Homework	Midterm	Presentations	In-class participation	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	Qualification Threshold (%)
	e	5	5	5	5	30	40	10	100	M1	60	70
Course Code	Program Outputs	Quiz	Midterm	Lab exam	Lab exam	Lab exam	Final	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:Essay/ written	Midterm:Essay/ written	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	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	
CTIS 164	a	20	20	30	30	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	Quiz	Quiz	Midterm:Essay/ written	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade	
CTIS 165	a	15	15	30	40	100	M3	55	
	Program Outputs	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade				
	b	100	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	Midterm	Project	Final:Practical (skills)	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade		
CTIS 256	a	25	30	15	30	100	M3	40		
	Program Outputs	Midterm	Midterm	Project	Final:Practical (skills)	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade		
	b	25	30	15	30	100	M3	40		
	Program Outputs	Midterm	Midterm	Project	Final:Practical (skills)	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade		
	d	25	30	15	30	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	Midterm	Final Exam	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade			
CTIS 261	a	30	30	40	100	M3	50			
	Program Outputs	Homework	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade					
	b	100	100	M3	60					

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	Quiz	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade					
CTIS 359	a	40	40	10	10	100	M3	55					
	Program Outputs	Quiz	Quiz	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade							
	c	50	50	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	40	10	100	M3	70		
Course Code	Program Outputs	Homework	Homework	Midterm	Lab work	Final	Project	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade		
CTIS 487	b	5	5	40	4	40	6	100	M3	50		

Course Code	Program Outputs	Project	Midterm	Midterm	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade				
CTIS 496	a	15	25	25	35	100	M3	50				
	Program Outputs	Project	Midterm	Midterm	Final:Essay/ written	Total Contribution	Qualification Calculation Method	(Average) Qualification Grade				
	b	15	25	25	35	100	M3	50				
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	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	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	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	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	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: Öğrencilerin ilgili program çıktısını kazanacağı öngörülen minimum not / *G: Minimum grade at which students attain the relevant program outcome*
- T: Dersin ilgili program çıktısının kazanımı için yeterli sayılacağı eşik öğrenci yüzdesi / *T: Threshold percentage of students for the course to be considered sufficient for the attainment of the relevant program outcome*
- M1: Öğrencilerin %T'sinin dönem toplamlarının en az G olması / *M1: T% of the students to have a semester total of at least G*
- M2: Öğrencilerin %T'sinin dönem toplamlarının en az bölümdeki dönem toplamlarının ortalaması kadar olması/ *M2: T% of the students of the department to have a semester total of at least that of the department average*
- M3: Öğrencilerin dönem toplamlarının ortalamasının en az G olması / *M3: Average semester total of students of the department to be at least G*
- M4: Öğrencilerin %T'sinin dönem toplamlarının en az tüm bölümlerdeki tüm öğrencilerin dönem toplamlarının ortalaması kadar olması / *M4: T% of the students of the department to have a semester total of at least average semester total of all students from all departments*

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	488	70	84.59	83.78	487	70	99.8	100	Yeterli ✓ / Sufficient ✓	100
d	M1	60	70	488	70	84.59	83.78	487	70	99.8	100	Yeterli ✓ / Sufficient ✓	100
e	M1	60	70	488	70	84.59	83.78	487	70	99.8	100	Yeterli ✓ / Sufficient ✓	100
CTIS 151 - Programlamaya Giriş / CTIS 151 - Introduction to Programming													
a	M3	55		80	66	71.25	70.77	64	53	80	80.3	Yeterli ✓ / Sufficient ✓	70.77
CTIS 152 - Algoritmalar ve Veri Yapıları / CTIS 152 - Algorithms and Data Structures													
a	M3	55		35	31	67.39	66.05	24	20	68.57	64.52	Yeterli ✓ / Sufficient ✓	66.05
CTIS 163 - Ayrık Matematik / CTIS 163 - Discrete Mathematics													
a	M3	55		64	63	75.69	75.55	55	54	85.94	85.71	Yeterli ✓ / Sufficient ✓	75.55
CTIS 164 - Teknik Matematik ve Programlama / CTIS 164 - Technical Mathematics with Programming													
a	M3	50		27	27	76.09	76.09	27	27	100	100	Yeterli ✓ / Sufficient ✓	76.09
b	M3	60		27	27	89.91	89.91	26	26	96.3	96.3	Yeterli ✓ / Sufficient ✓	89.91
CTIS 165 - Bilişim Sistemlerinin Temelleri / CTIS 165 - Fundamentals of Information Systems													
a	M3	55		82	63	64.87	67.61	62	51	75.61	80.95	Yeterli ✓ / Sufficient ✓	67.61
b	M3	70		82	63	95.41	95.39	82	63	100	100	Yeterli ✓ / Sufficient ✓	95.39
c	M3	80		82	63	95.41	95.39	81	62	98.78	98.41	Yeterli ✓ / Sufficient ✓	95.39
e	M3	70		82	63	95.41	95.39	82	63	100	100	Yeterli ✓ / Sufficient ✓	95.39
CTIS 221 - Nesneye Yönelik Programlama / CTIS 221 - Object Oriented Programming													
a	M3	55		81	69	70.02	70.35	67	56	82.72	81.16	Yeterli ✓ / Sufficient ✓	70.35
b	M3	55		81	69	79.24	79.7	77	65	95.06	94.2	Yeterli ✓ / Sufficient ✓	79.7

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
CTIS 255 - Önyüz Web Teknolojileri / CTIS 255 - Frontend Web Technologies													
b	M3	40		73	68	66.01	65.77	73	68	100	100	Yeterli ✓ / Sufficient ✓	65.77
CTIS 256 - Arkayüz Uygulama Geliştirmeye Giriş / CTIS 256 - Introduction to Backend Development													
a	M3	40		42	42	69.29	69.29	42	42	100	100	Yeterli ✓ / Sufficient ✓	69.29
b	M3	40		42	42	69.29	69.29	42	42	100	100	Yeterli ✓ / Sufficient ✓	69.29
d	M3	40		42	42	69.29	69.29	42	42	100	100	Yeterli ✓ / Sufficient ✓	69.29
CTIS 259 - Veri Tabanı Yönetim Sistemleri ve Uygulamaları / CTIS 259 - Database Management Systems and Applications													
a	M3	50		84	82	67.75	67.29	69	67	82.14	81.71	Yeterli ✓ / Sufficient ✓	67.29
b	M3	50		84	82	79.91	79.53	74	72	88.1	87.8	Yeterli ✓ / Sufficient ✓	79.53
CTIS 261 - Bilgisayar Ağlarının Temelleri / CTIS 261 - Fundamentals of Computer Networks													
a	M3	50		81	79	65.67	65.8	68	66	83.95	83.54	Yeterli ✓ / Sufficient ✓	65.8
b	M3	60		81	79	83.17	84.01	76	75	93.83	94.94	Yeterli ✓ / Sufficient ✓	84.01
CTIS 310 - Dönem Stajı / CTIS 310 - Semester Internship													
a	M3	75		19	19	96.28	96.28	19	19	100	100	Yeterli ✓ / Sufficient ✓	96.28
c	M3	75		19	19	95.69	95.69	19	19	100	100	Yeterli ✓ / Sufficient ✓	95.69
d	M3	75		19	19	96.89	96.89	19	19	100	100	Yeterli ✓ / Sufficient ✓	96.89
e	M3	75		19	19	97.11	97.11	19	19	100	100	Yeterli ✓ / Sufficient ✓	97.11
f	M3	75		19	19	96.78	96.78	19	19	100	100	Yeterli ✓ / Sufficient ✓	96.78
CTIS 359 - Yazılım Mühendisliğinin Esasları / CTIS 359 - Principles of Software Engineering													
a	M3	55		59	57	70.25	70.58	55	53	93.22	92.98	Yeterli ✓ / Sufficient ✓	70.58
c	M3	55		59	57	68.3	68.86	46	45	77.97	78.95	Yeterli ✓ / Sufficient ✓	68.86

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
CTIS 365 - Uygulamalı Veri Analizi / CTIS 365 - Applied Data Analysis													
a	M3	55		83	83	57.72	57.72	50	50	60.24	60.24	Yeterli ✓ / Sufficient ✓	57.72
b	M3	60		83	83	80.67	80.67	76	76	91.57	91.57	Yeterli ✓ / Sufficient ✓	80.67
c	M3	60		83	83	70.05	70.05	73	73	87.95	87.95	Yeterli ✓ / Sufficient ✓	70.05
CTIS 411 - Bitirme Projesi I / CTIS 411 - Senior Project I													
a	M3	70		90	90	83.35	83.35	76	76	84.44	84.44	Yeterli ✓ / Sufficient ✓	83.35
b	M3	70		90	90	88.55	88.55	88	88	97.78	97.78	Yeterli ✓ / Sufficient ✓	88.55
c	M3	70		90	90	93.19	93.19	90	90	100	100	Yeterli ✓ / Sufficient ✓	93.19
e	M3	70		90	90	92.97	92.97	90	90	100	100	Yeterli ✓ / Sufficient ✓	92.97
CTIS 487 - Mobil Uygulama Geliştirme / CTIS 487 - Mobile Application Development													
b	M3	50		66	65	67.14	66.99	58	57	87.88	87.69	Yeterli ✓ / Sufficient ✓	66.99
CTIS 496 - Bilgisayar ve Ağ Güvenliği / CTIS 496 - Computer and Network Security													
a	M3	50		65	63	70.93	70.45	60	58	92.31	92.06	Yeterli ✓ / Sufficient ✓	70.45
b	M3	50		65	63	70.93	70.45	60	58	92.31	92.06	Yeterli ✓ / Sufficient ✓	70.45
ENG 101 - İngilizce ve Kompozisyon I / ENG 101 - English and Composition I													
c	M1	70	75	1478	64	83.35	82.76	1377	59	93.17	92.19	Yeterli ✓ / Sufficient ✓	92.19
ENG 102 - İngilizce ve Kompozisyon II / ENG 102 - English and Composition II													
c	M1	70	70	535	21	86.02	85.64	521	21	97.38	100	Yeterli ✓ / Sufficient ✓	100
GE 100 - Üniversite Hayatına Giriş / GE 100 - Orientation													
c	M1	12	80	1518	69	96.71	96.81	1518	69	100	100	Yeterli ✓ / Sufficient ✓	100
g	M1	12	80	1518	69	96.71	96.81	1518	69	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
GE 251 - Üniversite Etkinlik Programı II / GE 251 - Collegiate Activities Program II													
c	M1	70	70	889	37	92.49	92.3	799	35	89.88	94.59	Yeterli ✓ / Sufficient ✓	94.59
g	M1	70	70	889	37	92.49	92.3	799	35	89.88	94.59	Yeterli ✓ / Sufficient ✓	94.59
HCIV 101 - Uygarlık Tarihi I / HCIV 101 - History of Civilization I													
c	M1	70	75	420	81	83.69	85.52	390	79	92.86	97.53	Yeterli ✓ / Sufficient ✓	97.53
e	M1	70	75	420	81	83.69	85.52	390	79	92.86	97.53	Yeterli ✓ / Sufficient ✓	97.53
HCIV 102 - Uygarlık Tarihi II / HCIV 102 - History of Civilization II													
c	M1	70	75	139	29	85.09	84.01	133	28	95.68	96.55	Yeterli ✓ / Sufficient ✓	96.55
e	M1	70	75	139	29	85.09	84.01	133	28	95.68	96.55	Yeterli ✓ / Sufficient ✓	96.55
HIST 200 - Türkiye Tarihi / HIST 200 - History of Turkey													
c	M1	70	75	1022	40	91.01	88.45	1006	39	98.43	97.5	Yeterli ✓ / Sufficient ✓	97.5
e	M1	70	75	1022	40	91.01	88.45	1006	39	98.43	97.5	Yeterli ✓ / Sufficient ✓	97.5
TURK 101 - Türkçe I / TURK 101 - Turkish I													
c	M1	70	60	1373	54	87.67	88.13	1347	54	98.11	100	Yeterli ✓ / Sufficient ✓	100
TURK 102 - Türkçe II / TURK 102 - Turkish II													
c	M1	70	60	592	29	88.83	89.65	588	29	99.32	100	Yeterli ✓ / Sufficient ✓	100

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 256	✓	✓		✓			
CTIS 259	✓	✓					
CTIS 261	✓	✓					
CTIS 310	✓		✓	✓	✓	✓	
CTIS 359	✓		✓				
CTIS 365	✓	✓	✓				
CTIS 411	✓	✓	✓		✓		
CTIS 487		✓					
CTIS 496	✓	✓					
ENG 101			✓				
ENG 102			✓				
GE 100			✓				✓
GE 251			✓				✓
HCIV 101			✓		✓		
HCIV 102			✓		✓		
HIST 200			✓		✓		
TURK 101			✓				
TURK 102			✓				

Tablo.3.3.1. 2025-2026 Akademik Yılı Güz Dönemi Bilişim Sistemleri ve Teknolojileri Lisans Programı Program Çıktıları Performans Tablosu / *Table.3.3.1. 2025-2026 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	100	100		
CTIS 151	70.77						
CTIS 152	66.05						
CTIS 163	75.55						
CTIS 164	76.09	89.91					
CTIS 165	67.61	95.39	95.39		95.39		
CTIS 221	70.35	79.7					
CTIS 255		65.77					
CTIS 256	69.29	69.29		69.29			
CTIS 259	67.29	79.53					
CTIS 261	65.8	84.01					
CTIS 310	96.28		95.69	96.89	97.11	96.78	
CTIS 359	70.58		68.86				
CTIS 365	57.72	80.67	70.05				
CTIS 411	83.35	88.55	93.19		92.97		
CTIS 487		66.99					
CTIS 496	70.45	70.45					
ENG 101			92.19				
ENG 102			100				
GE 100			100				100
GE 251			94.59				94.59
HCIV 101			97.53		97.53		
HCIV 102			96.55		96.55		
HIST 200			97.5		97.5		
TURK 101			100				
TURK 102			100				

Tablo.3.3.2. 2025-2026 Akademik Yılı Güz Dönemi Bilişim Sistemleri ve Teknolojileri Lisans Programı Program Çıktıları Performans Oranları Tablosu / *Table.3.3.2. 2025-2026 Academic Year Fall Semester Information Systems and Technologies Undergraduate Program - Program Outcomes Performance Rates Table*