

## BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ

## COMPUTER ENGINEERING DEPARTMENT

## BİRİNCİ YARIYIL (GÜZ) / FIRST SEMESTER

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS
CSE 101	Computer Engineering Concepts & Algorithms	-	3	0	2	4	8
GBE 113	Fundamental Biology	-	3	0	2	4	6
MATH 131	Calculus I	-	3	2	0	4	6
PHYS 101	Physics I	-	3	0	2	4	6
AFE 131	Academic English I	-	2	2	0	3	4
Toplam			14	4	6	19	30

## İKİNCİ YARIYIL (BAHAR) / Second Semester

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS
CSE 114	Fundamentals of Computer Programming	CSE 101	3	1	2	5	7
AFE 132	Academic English II	AFE 131	2	2	0	3	4
MATH 132	Calculus II	MATH 131	3	2	0	4	6
MATH 154	Discrete Mathematics	-	2	2	0	3	7
PHYS 102	Physics II	PHYS 101	3	0	2	4	6
Toplam			13	7	4	19	30

## ÜÇÜNCÜ YARIYIL (GÜZ) / Third Semester

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS
CSE 211	Data Structures	CSE 114	3	0	2	4	6
CSE 221	Principles of Logic Design	-	3	0	2	4	6
EE 211	Electrical Circuits		3	0	2	4	7
HUM 103	Humanities		2	0	0	2	3
MATH 221	Linear Algebra		2	2	0	3	6
TKL 201	Turkish Language I		2	0	0	2	2
Toplam			15	2	6	19	30

## DÖRDÜNCÜ YARIYIL (BAHAR) / Fourth Semester

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS
CSE 232	Systems Programming	CSE 114	2	1	1	3	6
CSE 224	Introduction to Digital Systems	CSE 221	3	0	2	4	6
CSE 212	Software Development Methodologies	CSE 114	2	0	2	3	5
MATH 281	Probability	MATH 132	2	2	0	3	5
MATH 241	Differential Equations	MATH 132	3	2	0	4	6
TKL 202	Turkish Language II		2	0	0	2	2
Toplam			14	5	5	19	30

## BEŞİNCİ YARIYIL (GÜZ) / Fifth Semester

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS
CSE 311	Analysis of Algorithms	CSE 211	3	2	0	4	7
CSE 351	Programming Languages	CSE 114	2	0	2	3	7
CSE 323	Computer Organization	CSE 221, CSE 232	3	0	0	3	6
CSE 341	File Organization	CSE 211	2	0	2	3	5
ES 224	Signals and Systems		2	2	0	3	5
	Toplam		12	4	4	16	30

## ALTINCI YARIYIL (BAHAR) / Sixth Semester

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS
CSE 331	Operating Systems Design	CSE 211, CSE 232	3	0	2	4	7
CSE 354	Automata Theory & Formal Languages	MATH 154	3	0	0	3	6
CSE 344	Software Engineering	CSE 211	3	0	0	3	6
CSE 348	Database Management Systems	CSE 211	2	0	2	3	5
ES 272	Numerical Analysis	MATH 132, CSE 114	2	2	0	3	6
	Toplam		13	2	4	16	30

## YEDİNCİ YARIYIL (GÜZ) / Seventh Semester

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS
FE XX1	Free Elective I		3	0	0	3	5
CSE 471	Data Communications & Computer Networks	ES 224	3	0	2	4	8
CSE XX1	Restricted Elective I (DE)		3	0	0	3	5
CSE XX2	Restricted Elective II (DE)		3	0	0	3	5
ECON 294	Economics for Engineers		3	0	0	3	4
CSE 400	Summer Practice	AFE 132	0	2	0	0	1
HTR 301	History of Turkish Revolution I		2	0	0	2	2
	Toplam		17	2	2	18	30

## SEKİZİNCİ YARIYIL (BAHAR) / Eighth Semester

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS
CSE 492	Engineering Project		1	0	4	3	8
CSE XX3	Restricted Elective III (DE)		3	0	0	3	5
CSE XX4	Restricted Elective IV		3	0	0	3	5
CSE XX5	Restricted Elective V		3	0	0	3	5
FE XX2	Free Elective II		3	0	0	3	5
HTR 302	History of Turkish Revolution II		2	0	0	2	2
	Toplam		15	0	4	17	30
	Genel Toplam					143	240

**AREA ELECTIVES (FALL)**

Code		Courses	Prerequisite	T	U	L	Y	ECTS
							Credit	
<b>CSE 336</b>		OPERATING SYSTEMS PRACTICE	CSE 331	3	0	0	3	5
<b>CSE 427</b>		COMPUTER ARCHITECTURE	CSE 224	3	0	0	3	5
<b>CSE 439</b>		COMPUTER SECURITY		3	0	0	3	5
<b>CSE 425</b>		DIGITAL SYSTEM DESIGN	CSE 221	3	0	0	3	5
<b>CSE 462</b>		INTRO. TO ARTIFICIAL INTELLIGENCE		3	0	0	3	5
<b>CSE 476</b>		MOBILE APPLICATION DEVELOPMENT	CSE 212	3	0	0	3	5
<b>CSE 484</b>		INTRO. TO VIRTUAL REALITY		3	0	0	3	5
<b>CSE 487</b>		IMAGE PROCESSING	ES 224	3	0	0	3	5
<b>CSE 480</b>		SPECIAL TOPICS		3	0	0	3	5

**AREA ELECTIVES (SPRING)**

Code		Courses	Prerequisite	T	U	L	Y	ECTS
							Credit	
<b>CSE 315</b>		INTERNET TECHNOLOGIES		3	0	0	3	5
<b>CSE 326</b>		EMBEDDED SYSTEMS PROGRAMMING		3	0	0	3	5
<b>CSE 426</b>		AUDIO PROCESSING AND RECOGNITION	ES 224	3	0	0	3	5
<b>CSE 457</b>		COMPILER DESIGN	CSE 354	3	0	0	3	5
<b>CSE 472</b>		CONCURRENT PROGRAMMING	CSE 331	3	0	0	3	5
<b>CSE 483</b>		COMPUTER GRAPHICS		3	0	0	3	5
<b>CSE 489</b>		HUMAN COMPUTER INTERACTION		3	0	0	3	5
<b>CSE 480</b>		SPECIAL TOPICS		3	0	0	3	5