

# CIVIL ENGINEERING DEPARTMENT CURRICULUM

## BİRİNCİ YARIYIL (GÜZ) / FIRST SEMESTER

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS	Şube Sayı	Sözleşmeli Öğretim Üyesi * Professor / Lecturer
CE 101	Introduction to Civil Engineering	-	2	0	0	2	6	1	Prof. Dr. Nesrin Yardımcı
CHEM 101	General Chemistry	-	3	1	1	4	6	1	
AFE 131	Academic English I	-	2	2	0	3	4	1	
ES 161	Engineering Drawing	-	1	0	2	2	5	1	
MATH 131	Calculus I	-	3	2	0	4	6	1	
HUM 103	Humanities	-	2	0	0	2	3	1	
Total			13	5	3	17	30		

## İKİNCİ YARIYIL (BAHAR) / Second Semester

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS	Şube Sayı	Sözleşmeli Öğretim Üyesi * Professor / Lecturer
AFE 132	Academic English II	AFE131	2	2	0	3	4	1	
ES 117	Intnroduction to Scientific Computing	-	2	0	2	3	5	1	
CE 162	Materials Science		2	1	1	3	4	1	
MATH 132	Calculus II	MATH131	3	2	0	4	6	1	
PHYS 101	Physics I	-	3	0	2	4	6	1	
FE XX1	Free Elective I	-	3	0	0	3	5		
Total			15	5	5	20	30		

## ÜÇÜNCÜ YARIYIL (GÜZ) / Third Semester

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS	Şube Sayı	Sözleşmeli Öğretim Üyesi * Professor / Lecturer
CE 221	Construction Materials	CE162	2	2	0	3	6	1	Asst. Prof. Dr. M. Adil Akgül
CE 233	Engineering Mechanics	PHYS101	3	2	0	4	6	1	
ECON 294	Economics for Engineers	-	3	0	0	3	4	1	
MATH 241	Differential Equations	MATH132	3	2	0	4	6	1	
PHYS 102	Physics II	PHYS101	3	0	2	4	6	1	
TKL 201	Turkish I	-	2	0	0	2	2	1	
Total			16	6	2	20	30		

## DÖRDÜNCÜ YARIYIL (BAHAR) / Fourth Semester

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS	Şube Sayı	Sözleşmeli Öğretim Üyesi * Professor / Lecturer
CE 236	Strength of Materials	CE233	3	2	0	4	6	1	Asst. Prof. Dr. Özgür Köylüoğlu
CE 252	Fluid Mechanics and Hydraulics	CE233	2	2	0	3	6	1	Asst. Prof. Dr. M. Adil Akgül
CE 262	Surveying	-	2	0	2	3	5	1	
STAT 410	Statistics	-	3	0	0	3	5	1	
MATH 221	Linear Algebra	-	2	2	0	3	6	1	
TKL 202	Turkish II	-	2	0	0	2	2	1	
Total			15	5	2	18	30		

**BEŞİNCİ YARIYIL (GÜZ) / Fifth Semester**

Kod Code		Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS	Şube Sayı	Sözleşmeli Öğretim Üyesi * Professor / Lecturer
CE	353	Hydrology and Hydraulic Structures	CE252	2	2	0	3	7	1	Asst. Prof. Dr. M. Adil Akgül
CE	361	Design of Transportation Systems	-	3	0	0	3	6	1	
CE	372	Construction Management	-	3	0	0	3	6	1	Asst. Prof. Dr. Özgür Köylüoğlu Asst. Prof. Dr. Almıla Uzel
CE	381	Structural Analysis	CE236	3	2	0	4	8	1	
HTR	301	History I	-	2	0	0	2	2		
CE	300	Summer Practice I	-	0	2	0	0	1	1	
Total				13	6	0	15	30		

**ALTINCI YARIYIL (BAHAR) / Sixth Semester**

Kod Code		Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS	Şube Sayı	Sözleşmeli Öğretim Üyesi * Professor / Lecturer
CE	341	Soil Mechanics	CE236	3	0	2	4	7	1	Assoc. Prof. Dr. M. Murat Monkul Asst. Prof. Dr. Almıla Uzel
CE	382	Reinforced Concrete Design Fundamentals for Steel Structures	CE236	2	2	0	3	8	1	
CE	384	Design Fundamentals for Steel Structures	CE236	2	2	0	3	8	1	Prof. Dr. Nesrin Yardımcı
CE	XX1	Restricted Elective I		3	0	0	3	5	1	
HTR	302	History II		2	0	0	2	2	1	
Total				12	4	2	15	30		

**YEDİNCİ YARIYIL (GÜZ) / Seventh Semester**

Kod Code		Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS	Şube Sayı	Sözleşmeli Öğretim Üyesi * Professor / Lecturer
CE	441	Foundation Engineering	CE341	3	0	0	3	5	1	Assoc. Prof. Dr. M. Murat Monkul Asst. Prof. Dr. Almıla Uzel
CE	491	Design of Reinforced Concrete Structures	CE382	2	2	0	3	5	1	
CE	XX2	Restricted Elective II		3	0	0	3	5	1	
CE	XX3	Restricted Elective III		3	0	0	3	5	1	
CE	XX4	Restricted Elective IV		3	0	0	3	5	1	
FE	XX2	Free Elective II		3	0	0	3	5	1	
CE	400	Summer Practice II		0	2	0	0	1		
Total				17	4	0	18	31		

**SEKİZİNCİ YARIYIL (BAHAR) / Eighth Semester**

Kod Code		Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS	Şube Sayı	Sözleşmeli Öğretim Üyesi * Professor / Lecturer
CE	462	Construction Safety and Engineering Ethics	-	3	0	0	3	6	1	Asst. Prof. Dr. Özgür Köylüoğlu
CE	492	Engineering Project	-	1	0	4	3	8		
CE	XX5	Restricted Elective V		3	0	0	3	5	1	
CE	XX6	Restricted Elective VI		3	0	0	3	5	1	
CE	XX7	Restricted Elective VII		3	0	0	3	5	1	
Total				13	0	4	15	29		
Programme Total							138	240		

**BÖLÜM SEÇMELİ DERSLER (GÜZ) / AREA ELECTİVES**

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS	Şube Sayı	Sözleşmeli Öğretim Üyesi * Professor / Lecturer
CE 362	Fundamentals of Environmental Management Systems	-	3	0	0	3	5	1	
CE 364	Geographic Information Systems	-	3	0	0	3	5	1	
CE 422	Durability of Concrete Structures	-	3	0	0	3	5	1	
CE 474	Soil Works and Retaining Structures	CE341	3	0	0	3	5	1	Assoc. Prof. Dr. M. Murat Monkul
CE 479	Prestressed Concrete	CE382	3	0	0	3	5	1	Asst. Prof. Dr. Almıla Uzel
CE 489	Steel Structures	CE384	3	0	0	3	5	1	Prof. Dr. Nesrin Yardımcı
CE 496	Sustainable Construction	-	3	0	0	3	5	1	Asst. Prof. Dr. Özgür Köylüoğlu

**BÖLÜM SEÇMELİ DERSLER (BAHAR) / AREA ELECTİVES (SPRING)**

Kod Code	Dersler Courses	Önkoşul Prerequisite	T	U	L	Y Credit	AKTS ECTS	Şube Sayı	Sözleşmeli Öğretim Üyesi * Professor / Lecturer
CE 403	Computing in Civil Engineering	-	3	0	0	3	5	1	Asst. Prof. Dr. M. Adil Akgül
CE 463	Site Organization	-	3	0	0	3	5	1	Asst. Prof. Dr. Özgür Köylüoğlu
CE 472	Special Topics in Structural Analysis	CE381	3	0	0	3	5		Asst. Prof. Dr. Almıla Uzel
CE 473	Traffic Engineering	-	3	0	0	3	5	1	
CE 476	Academic Writing	-	3	0	0	3	5	1	
CE 477	Concrete Technology	-	3	0	0	3	5	1	
CE 482	Energy Management in Civil Engineering	-	3	0	0	3	5	1	Asst. Prof. Dr. M. Adil Akgül
CE 485	Deep Foundations	CE441	3	0	0	3	5	1	Assoc. Prof. Dr. M. Murat Monkul
CE 486	Repair and Maintenance in Concrete	CE382	3	0	0	3	5	1	
CE 487	Urban Water Systems	CE252	3	0	0	3	5	1	Asst. Prof. Dr. M. Adil Akgül
CE 488	Introduction to Earthquake Engineering	-	3	0	0	3	5	1	Asst. Prof. Dr. Özden Saygılı
CE 494	Tall Structures	CE381	3	0	0	3	5	1	
CE 495	Introduction to Structural Damage and Rehabilitation	CE382	3	0	0	3	5	1	