

BURSA ULUDAĞ ÜNİVERSİTESİ
2021-2022 EĞİTİM-ÖĞRETİM YILI

İNŞAAT MÜHENDİSLİĞİ BÖLÜMÜNDE YAN DAL YAPACAK BİYOSİSTEM MÜH. BÖLÜMÜ ÖĞRENCİLERİ İÇİN DERS PLANLARI

FAKÜLTE/YÜKSEKOKUL/KONSERVATUVAR/MESLEK YÜKSEKOKULU : MÜHENDİSLİK FAKÜLTESİ
BÖLÜM/ PROGRAM: İNŞAAT MÜHENDİSLİĞİ BÖLÜMÜ

I.YARIYIL/GÜZ YARIYILI					II.YARIYIL/BAHAR YARIYILI						
		HAFTALIK DERS SAATİ						HAFTALIK DERS SAATİ			
KOD	DERSİN ADI	T	U	L	AKTS	KOD	DERSİN ADI	T	U	L	AKTS
INS1001	İNŞAAT MÜHENDİSLİĞİNE GİRİŞ	2	0	0	2						
	SECMELİ DERSLER						SECMELİ DERSLER				
	ALAN İÇİ SEÇMELİ						ALAN İÇİ SEÇMELİ				
	ALAN DIŞI SEÇMELİ						ALAN DIŞI SEÇMELİ				
	YARIYIL KREDİSİ				2		YARIYIL KREDİSİ				0

III.YARIYIL/GÜZ YARIYILI					IV.YARIYIL/BAHAR YARIYILI						
		HAFTALIK DERS SAATİ						HAFTALIK DERS SAATİ			
KOD	DERSİN ADI	T	U	L	AKTS	KOD	DERSİN ADI	T	U	L	AKTS
INS2011	MUKAVEMET I	3	1	0	5	INS2032	YAPI MALZEMESİ	2	1	1	5
						INS2004	SAYISAL ANALİZ	3	0	0	4
	SECMELİ DERSLER						SECMELİ DERSLER				
	ALAN İÇİ SEÇMELİ						ALAN İÇİ SEÇMELİ				
	ALAN DIŞI SEÇMELİ						ALAN DIŞI SEÇMELİ				
	YARIYIL KREDİSİ				5		YARIYIL KREDİSİ				9

V.YARIYIL/GÜZ YARIYILI					VI.YARIYIL/BAHAR YARIYILI						
		HAFTALIK DERS SAATİ						HAFTALIK DERS SAATİ			
KOD	DERSİN ADI	T	U	L	AKTS	KOD	DERSİN ADI	T	U	L	AKTS
INS3085	ULAŞIM I	2	1	0	5	INS3072	ZEMİN MEKANİĞİ II	2	1	1	5
INS3033	BETONARME I	3	1	0	5						
	SECMELİ DERSLER						SECMELİ DERSLER				
	ALAN İÇİ SEÇMELİ						ALAN İÇİ SEÇMELİ				
	ALAN DIŞI SEÇMELİ						ALAN DIŞI SEÇMELİ				
	YARIYIL KREDİSİ				10		YARIYIL KREDİSİ				5

VII.YARIYIL/GÜZ YARIYILI					VIII.YARIYIL/BAHAR YARIYILI						
		HAFTALIK DERS SAATİ						HAFTALIK DERS SAATİ			
KOD	DERSİN ADI	T	U	L	AKTS	KOD	DERSİN ADI	T	U	L	AKTS
INS4033	ÇELİK YAPILAR	2	2	0	4						
INS4013	DENEYSEL TASARIM ***	1	0	2	6						
	SECMELİ DERSLER						SECMELİ DERSLER				
	ALAN İÇİ SEÇMELİ - II. GRUP						ALAN İÇİ SEÇMELİ - I. GRUP (1 ADET)	2	2	0	4
	ALAN İÇİ SEÇMELİ - III. GRUP						ALAN İÇİ SEÇMELİ - IV. GRUP (1 ADET)	2	2	0	4
	ALAN DIŞI SEÇMELİ										
	YARIYIL KREDİSİ				10		YARIYIL KREDİSİ				8

* Yabancı dillerden sadece biri seçilecektir.

** İnşaat Mühendisliği Bölümü Staj İlkeleri Uygulama Esasları uyarınca.

*** Bitirme Tezi'ni Güz döneminde alacak öğrenciler bu dersi Bahar yarıyılında da alabilirler.

**** Bitirme durumunda olan öğrenciler bu Tezi Güz yarıyılında da alabilirler.

Doküman KOD:RİT-FR-OİD-12 Revizyon No:02

	AKTS
Toplam Seçmeli Ders Kredisi :	8
Toplam Mezuniyet Kredisi :	49
Toplam Seçmeli Ders Kredi Oranı:	16%

BURSA ULUDAG UNIVERSITY
2021-2022 ACADEMIC YEAR

CIVIL ENGINEERING CURRICULUM FOR BIOSYSTEM ENGINEERS FOR MINOR DEGREE IN CIVIL ENGINEERING

FACULTY/VOCATIONAL SCHOOL : Engineering Faculty

DEPARTEMENT/ PROGRAM : Civil Engineering Department

I.TERM/FALL SEMESTER					II.TERM/SPRING SEMESTER						
		COURSE HOUR PER WEEK					COURSE HOUR PER WEEK				
CODE	COURSE	T	A	L	ECTS	CODE	COURSE	T	A	L	ECTS
INS1001	INTRODUCTION TO CIVIL ENGINEERING	2	0	0	2						
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE						FIELD COURSE				
	NON-FIELD COURSE						NON-FIELD COURSE				
	TERM CREDITS				2		TERM CREDITS				0

III.TERM/FALL SEMESTER					IV.TERM/SPRING SEMESTER						
		COURSE HOUR PER WEEK					COURSE HOUR PER WEEK				
CODE	COURSE	T	A	L	ECTS	CODE	COURSE	T	A	L	ECTS
INS2011	MECHANICS OF MATERIALS I	3	1	0	5	INS2032	MATERIALS OF CONSTRUCTION	2	1	1	5
						INS2004	NUMERICAL ANALYSIS	3	0	0	4
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE						FIELD COURSE				
	NON-FIELD COURSE						NON-FIELD COURSE				
	TERM CREDITS				5		TERM CREDITS				9

V.TERM/FALL SEMESTER					VI.TERM/SPRING SEMESTER						
		COURSE HOUR PER WEEK					COURSE HOUR PER WEEK				
CODE	COURSE	T	A	L	ECTS	CODE	COURSE	T	A	L	ECTS
INS3085	TRANSPORTATION I	2	1	0	5	INS3072	SOIL MECHANICS II	2	1	1	5
INS3033	REINFORCED CONCRETE I	3	1	0	5						
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE						FIELD COURSE				
	NON-FIELD COURSE						NON-FIELD COURSE				
	TERM CREDITS				10		TERM CREDITS				5

VII.TERM/FALL SEMESTER					VIII.TERM/SPRING SEMESTER						
		COURSE HOUR PER WEEK					COURSE HOUR PER WEEK				
CODE	COURSE	T	A	L	ECTS	CODE	COURSE	T	A	L	ECTS
INS4033	STEEL STRUCTURES	2	2	0	4						
INS4013	EXPERIMENTAL DESIGN ***	1	0	2	6						
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE - GROUP II						FIELD COURSE - GROUP I (1 COURSE)	2	2	0	4
	FIELD COURSE - GROUP III						FIELD COURSE - GROUP IV (1 COURSE)	2	2	0	4
	NON-FIELD COURSE										
	TERM CREDITS				10		TERM CREDITS				8

* Only one Foreign Language course should be selected.

Doküman KOD:RİT-FR-ÖİD-12 Revizyon No:02

BURSA ULUDAG UNIVERSITY
2021-2022 ACADEMIC YEAR
ELECTIVE COURSES LIST

FACULTY : Engineering Faculty
DEPARTMENT/PROGRAM : Civil Engineering Department

I.TERM/FALL SEMESTER					II.TERM/SPRING SEMESTER						
CODE	COURSE	COURSE HOUR PER WEEK				CODE	COURSE	COURSE HOUR PER WEEK			
		T	A	L	ECTS			T	A	L	ECTS
FIELD COURSES					FIELD COURSES						
NON-FIELD COURSES					NON-FIELD COURSES						
					INS1004	CIVIL ENGINEERING ETHICS	2	0	0	3	
TOTAL CREDITS					TOTAL CREDITS						

III.TERM/FALL SEMESTER					IV.TERM/SPRING SEMESTER						
CODE	COURSE	COURSE HOUR PER WEEK				CODE	COURSE	COURSE HOUR PER WEEK			
		T	A	L	ECTS			T	A	L	ECTS
FIELD COURSES					FIELD COURSES						
INS2007	FOREIGN LANGUAGE READING AND WRITING I	2	0	0	2	INS2006	FOREIGN LANGUAGE READING AND WRITING II	2	0	0	2
INS2009	VOCATIONAL FOREIGN LANGUAGE I	2	0	0	2	INS2008	VOCATIONAL FOREIGN LANGUAGE II	2	0	0	2
NON-FIELD COURSES					NON-FIELD COURSES						
TOTAL CREDITS					TOTAL CREDITS						

V.TERM/FALL SEMESTER					VI.TERM/SPRING SEMESTER						
CODE	COURSE	COURSE HOUR PER WEEK				CODE	DERSİN ADI	COURSE HOUR PER WEEK			
		T	A	L	ECTS			T	A	L	ECTS
FIELD COURSES					FIELD COURSES						
INS3001	FOREIGN LANGUAGE READING AND WRITING III	2	0	0	2	INS3020	CONCRETE TECHNOLOGY	2	1	0	5
INS3003	VOCATIONAL FOREIGN LANGUAGE III	2	0	0	2	INS3030	EARTHQUAKE RESISTANT DESIGN OF RC STRUCTURES	2	1	0	5
						INS3036	INTRODUCTION TO STRUCTURAL DYNAMICS	2	1	0	5
						INS3038	ADVANCED STRUCTURAL ANALYSIS	2	1	0	5
NON-FIELD COURSES					NON-FIELD COURSES						
MIM3099	INTRODUCTION TO ARCHITECTURE	2	0	0	3	CAL3206	BUSINESS LAW	2	0	0	3
INS3015	REAL ESTATE EVALUATION	2	0	0	3	INS3042	ISOLATION TECHNIQUES	2	0	0	3
INS3017	WORK MACHINERY	2	0	0	3						
TOTAL CREDITS					TOTAL CREDITS						

VII.TERM/FALL SEMESTER					VIII.TERM/SPRING SEMESTER						
CODE	COURSE	COURSE HOUR PER WEEK				CODE	COURSE	COURSE HOUR PER WEEK			
		T	A	L	ECTS			T	A	L	ECTS
FIELD COURSES - GROUP II					FIELD COURSES - GROUP I						
INS4011	INTRODUCTION TO FINITE ELEMENT METHOD	3	1	0	5	INS4022	COMPUTER APPLICATION IN STRUCTURAL MECHANICS	2	2	0	4
INS4021	ADVANCED DIFFERENTIAL EQUATIONS	3	1	0	5	INS4046	COMPUTER APPLICATIONS IN DESIGN OF STRUCTURAL SYSTEMS	2	2	0	4
INS4035	REINFORCED CONCRETE STRUCTURE PROJECT	3	1	0	5	INS4052	COMPUTER APPLICATIONS IN HYDRAULICS	2	2	0	4
INS4051	WATER RESOURCES ENGINEERING	3	1	0	5	INS4078	COMPUTER APPLICATIONS IN SOIL AND FOUNDATION ENGINEERING	2	2	0	4
INS4053	COASTAL ENGINEERING	3	1	0	5	INS4098	COMPUTER APPLICATION IN TRANSPORTATION ENGINEERING	2	2	0	4
INS4073	FOUNDATIONS DESIGN	3	1	0	5						
INS4087	TRAFFIC ENGINEERING	3	1	0	5						
INS4055	WATER SUPPLY AND ENVIRONMENTAL HEALTH	3	1	0	5						
FIELD COURSES - GROUP III					FIELD COURSES - GROUP II						
INS4015	OPTIMIZATION IN ENGINEERING	2	1	0	4	INS4030	STEEL STRUCTURE PROJECT	2	1	0	3
INS4017	INTRODUCTION TO NANOTECHNOLOGY AND NANOMECHANICS	2	1	0	4	INS4034	PRINCIPLES OF MASONRY STRUCTURE DESIGN	2	1	0	3
INS4019	MATRIX METHODS IN ENGINEERING	2	1	0	4	INS4036	INTRODUCTION TO EARTHQUAKE ENGINEERING	2	1	0	3
INS4031	COMPUTER AIDED STRUCTURAL ANALYSIS	2	1	0	4	INS4042	TIMBER STRUCTURES	2	1	0	3
INS4037	COMPUTER AIDED TECHNICAL DRAWING	2	1	0	4	INS4054	GEOGRAPHIC INFORMATION SYSTEMS IN HYDROLOGY	2	1	0	3
INS4039	CONSTRUCTION MATERIALS TESTS	2	1	0	4	INS4062	COASTAL AND PORT ENGINEERING	2	1	0	3
						INS4072	RETAINING STRUCTURES	2	1	0	3
						INS4074	PILE FOUNDATIONS	2	1	0	3
						INS4086	RAILWAYS	2	1	0	3
NON-FIELD COURSES					NON-FIELD COURSES						
						INS4006	FOREIGN LANGUAGE READING AND WRITING IV	2	0	0	2
						INS4008	VOCATIONAL FOREIGN LANGUAGE IV	2	0	0	2
FIELD COURSES - GROUP IV					FIELD COURSES - GROUP IV						
						INS4032	CONSTRUCTION MANAGEMENT	2	2	0	4
						INS4038	SITE LAYOUT	2	2	0	4
NON-FIELD COURSES					NON-FIELD COURSES						
INS4023	PERSIAN LANGUAGE AND LITERATURE	2	0	0	3	INS4018	NATURE SCIENCE AND HISTORY OF SCIENCE	2	0	0	3
TOTAL CREDITS					TOTAL CREDITS						