

BURSA ULUDAĞ ÜNİVERSİTESİ
2021-2022 EĞİTİM-ÖĞRETİM YILI
DERS PLANLARI

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

I.YARIYIL/GÜZ YARIYILI					II.YARIYIL/BAHAR YARIYILI						
KOD	DERSİN ADI	HAFTALIK DERS SAATI			AKTS	KOD	DERSİN ADI	HAFTALIK DERS SAATI			AKTS
		T	U	L				T	U	L	
ATA101	ATATÜRK İLKELERİ ve İNKILAP TARİHİ I	2	0	0	2	ATA102	ATATÜRK İLKELERİ ve İNKILAP TARİHİ II	2	0	0	2
TUD101	TÜRK DİLİ I	2	0	0	2	TUD102	TÜRK DİLİ II	2	0	0	2
YAD101	YABANCI DİL I (İNGİLİZCE I)*	2	0	0	2	YAD102	YABANCI DİL II (İNGİLİZCE II)*	2	0	0	2
YAD111	YABANCI DİL I (ALMANCA I)*	2	0	0	2	YAD112	YABANCI DİL II (ALMANCA II)*	2	0	0	2
YAD121	YABANCI DİL I (FRANSIZCA I)*	2	0	0	2	YAD122	YABANCI DİL II (FRANSIZCA II)*	2	0	0	2
MAT1071	MATEMATİK I	3	2	0	6	MAT1072	MATEMATİK II	3	2	0	6
FZK1071	TEMEL FİZİK I	3	0	2	6	FZK1072	TEMEL FİZİK II	3	0	2	6
KIM1077	GENEL KİMYA	3	0	0	3	BMB1002	BİLGİSAYAR PROGRAMLAMAYA GİRİŞ	2	0	2	6
INS1001	İNŞAAT MÜHENDİSLİĞİNE GİRİŞ	2	0	0	2	INS1008	İNŞAAT MÜHENDİSLERİ İÇİN JEOLOJİ	2	0	0	2
INS1003	İNŞAAT MÜHENDİSLİĞİ ÇİZİMLERİ	1	2	0	4	INS1012	STATİK	3	0	0	4
INS1005	TEMEL BİLGİSAYAR	1	2	0	3						
INS1007	KARIYER PLANLAMA	1	0	0	1						
SECMELİ DERSLER					SECMELİ DERSLER						
ALAN İÇİ SECMELİ					ALAN İÇİ SECMELİ						
ALAN DIŞI SECMELİ					ALAN DIŞI SECMELİ (1 ADET)						
YARIYIL KREDİSİ					YARIYIL KREDİSİ						
31					33						

III.YARIYIL/GÜZ YARIYILI					IV.YARIYIL/BAHAR YARIYILI						
KOD	DERSİN ADI	HAFTALIK DERS SAATI			AKTS	KOD	DERSİN ADI	HAFTALIK DERS SAATI			AKTS
		T	U	L				T	U	L	
MAT2083	DİFERANSİYEL DENKLEMLER	3	2	0	6	MAT2098	MÜHENDİSLİK MATEMATİĞİ	4	0	0	6
INS2001	İSTATİSTİK	2	0	0	3	INS2004	SAYISAL ANALİZ	3	0	0	4
INS2003	ÖLÇME BİLGİSİ	2	1	0	5	INS2012	MUKAVEMET II	3	1	0	6
INS2005	MÜHENDİSLİK EKONOMİSİ	2	0	0	3	INS2014	DİNAMİK	3	0	0	5
INS2011	MUKAVEMET I	3	1	0	5	INS2032	YAPI MALZEMESİ	2	1	1	5
INS2031	MALZEME BİLİMİ	2	1	0	4	ISG202	İŞ SAĞLIĞI VE GÜVENLİĞİ II	2	0	0	2
ISG201	İŞ SAĞLIĞI VE GÜVENLİĞİ I	2	0	0	2						
SECMELİ DERSLER					SECMELİ DERSLER						
ALAN İÇİ SECMELİ (1 ADET)					ALAN İÇİ SECMELİ (1 ADET)						
ALAN DIŞI SECMELİ					ALAN DIŞI SECMELİ						
YARIYIL KREDİSİ					YARIYIL KREDİSİ						
30					30						

V.YARIYIL/GÜZ YARIYILI					VI.YARIYIL/BAHAR YARIYILI						
KOD	DERSİN ADI	HAFTALIK DERS SAATI			AKTS	KOD	DERSİN ADI	HAFTALIK DERS SAATI			AKTS
		T	U	L				T	U	L	
INS3031	YAPI STATİĞİ	3	2	0	5	INS3032	BETONARME II	2	1	0	5
INS3033	BETONARME I	3	1	0	5	INS3052	HİDROLOJİ	2	1	0	5
INS3053	AKIŞKANLAR MEKANİĞİ	2	0	1	5	INS3072	ZEMİN MEKANİĞİ II	2	1	1	5
INS3071	ZEMİN MEKANİĞİ I	2	1	0	5	INS3086	ULAŞIM II	2	1	0	5
INS3085	ULAŞIM I	2	1	0	5	INS3054	HİDROLİK	2	1	0	4
SECMELİ DERSLER					SECMELİ DERSLER						
ALAN İÇİ SECMELİ (1 ADET)					ALAN İÇİ SECMELİ (1 ADET)						
ALAN DIŞI SECMELİ (1 ADET)					ALAN DIŞI SECMELİ (1 ADET)						
YARIYIL KREDİSİ					YARIYIL KREDİSİ						
30					32						

VII.YARIYIL/GÜZ YARIYILI					VIII.YARIYIL/BAHAR YARIYILI						
KOD	DERSİN ADI	HAFTALIK DERS SAATI			AKTS	KOD	DERSİN ADI	HAFTALIK DERS SAATI			AKTS
		T	U	L				T	U	L	
INS4033	ÇELİK YAPILAR	2	2	0	4	INS4000	BİTİRME PROJESİ ****	0	2	0	6
INS4001	STAJ I **	0	0	0	8	INS4002	STAJ 2 **	0	0	0	8
INS4013	DENEYSEL TAŞARIM ***	1	0	2	6						
SECMELİ DERSLER					SECMELİ DERSLER						
ALAN İÇİ SECMELİ - II. GRUP (1 ADET)					ALAN İÇİ SECMELİ - I. GRUP (1 ADET)						
ALAN İÇİ SECMELİ - III. GRUP (1 ADET)					ALAN İÇİ SECMELİ - II. GRUP (1 ADET)						
ALAN DIŞI SECMELİ (1 ADET)					ALAN İÇİ SECMELİ - III. GRUP (1 ADET)						
					ALAN İÇİ SECMELİ - IV. GRUP (1 ADET)						
					ALAN DIŞI SECMELİ (1 ADET)						
YARIYIL KREDİSİ					YARIYIL KREDİSİ						
30					30						

* Yabancı dillerden sadece biri seçilecektir.

Doküman KOD:RİT-FR-01D-12 Revizyon No:02

** İnşaat Mühendisliği Bölümü Şaj 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.

	AKTS
Toplam Seçmeli Ders Kredisi :	60
Toplam Mezuniyet Kredisi :	245
Toplam Seçmeli Ders Kredisi Oranı :	24%

BURSA ULUDAG UNIVERSITY
2021-2022 ACADEMIC YEAR
CURRICULUM

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
ATA101	ATATURK'S PRINCIPALS and HISTORY of REVOLUTIONS I	2	0	0	2	ATA102	ATATURK'S PRINCIPALS and HISTORY of REVOLUTIONS II	2	0	0	2
TUD101	TURKISH LANGUAGE I	2	0	0	2	TUD102	TURKISH LANGUAGE II	2	0	0	2
YAD101	FOREIGN LANGUAGE I (ENGLISH I)*	2	0	0	2	YAD102	FOREIGN LANGUAGE II (ENGLISH II) *	2	0	0	2
YAD111	FOREIGN LANGUAGE I (GERMAN I)*	2	0	0	2	YAD112	FOREIGN LANGUAGE II (GERMAN II)*	2	0	0	2
YAD121	FOREIGN LANGUAGE I (FRENCH I)*	2	0	0	2	YAD122	FOREIGN LANGUAGE II (FRENCH II)*	2	0	0	2
MAT1071	MATHEMATICS I	3	2	0	6	MAT1072	MATHEMATICS II	3	2	0	6
FZK1071	BASIC PHYSICS I	3	0	2	6	FZK1072	BASIC PHYSICS II	3	0	2	6
KIM1077	GENERAL CHEMISTRY	3	0	0	3	BMB1002	INTRODUCTION TO COMPUTER PROGRAMMING	2	0	2	6
INS1001	INTRODUCTION TO CIVIL ENGINEERING	2	0	0	2	INS1008	GEOLOGY FOR CIVIL ENGINEERS	2	0	0	2
INS1003	CIVIL ENGINEERING DRAWINGS	1	2	0	4	INS1012	STATICS	3	0	0	4
INS1005	INTRODUCTION TO COMPUTER	1	2	0	3						
INS1007	CAREER PLANNING	1	0	0	1						
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE						FIELD COURSE				
	NON-FIELD COURSE						NON-FIELD COURSE (1 COURSE)	2	0	0	3
	TERM CREDITS				31		TERM CREDITS				33

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
MAT2083	DIFFERENTIAL EQUATIONS	3	2	0	6	MAT2098	ENGINEERING MATHEMATICS	4	0	0	6
INS2001	STATISTICS	2	0	0	3	INS2004	NUMERICAL ANALYSIS	3	0	0	4
INS2003	FUNDAMENTALS OF SURVEYING	2	1	0	5	INS2012	MECHANICS OF MATERIALS II	3	1	0	6
INS2005	ENGINEERING ECONOMICS	2	0	0	3	INS2014	DYNAMICS	3	0	0	5
INS2011	MECHANICS OF MATERIALS I	3	1	0	5	INS2032	MATERIALS OF CONSTRUCTION	2	1	1	5
INS2031	MATERIALS SCIENCE	2	1	0	4	ISG202	OCCUPATIONAL HEALTH AND SAFETY II	2	0	0	2
ISG201	OCCUPATIONAL HEALTH AND SAFETY I	2	0	0	2						
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE (1 COURSE)	2	0	0	2		FIELD COURSE (1 COURSE)	2	0	0	2
	NON-FIELD COURSE						NON-FIELD COURSE				
	TERM CREDITS				30		TERM CREDITS				30

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
INS3031	STRUCTURAL ANALYSIS	3	2	0	5	INS3032	REINFORCED CONCRETE II	2	1	0	5
INS3033	REINFORCED CONCRETE I	3	1	0	5	INS3052	HYDROLOGY	2	1	0	5
INS3053	FLUID MECHANICS	2	0	1	5	INS3072	SOIL MECHANICS II	2	1	1	5
INS3071	SOIL MECHANICS I	2	1	0	5	INS3086	TRANSPORTATION II	2	1	0	5
INS3085	TRANSPORTATION I	2	1	0	5	INS3054	HYDROLOGIC	2	1	0	4
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE (1 COURSE)	2	0	0	2		FIELD COURSE (1 COURSE)	2	1	0	5
	NON-FIELD COURSE (1 COURSE)	2	0	0	3		NON-FIELD COURSE (1 COURSE)	2	0	0	3
	TERM CREDITS				30		TERM CREDITS				32

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	INS4000	BACHELOR PROJECT ****	0	2	0	6
INS4001	PRACTISE I **	0	0	0	8	INS4002	PRACTISE II **	0	0	0	8
INS4013	EXPERIMENTAL DESIGN ***	1	0	2	6						
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE - GROUP II (1 COURSE)	3	1	0	5		FIELD COURSE - GROUP I (1 COURSE)	2	2	0	4
	FIELD COURSE - GROUP III (1 COURSE)	2	1	0	4		FIELD COURSE - GROUP II (1 COURSE)	2	1	0	3
	NON-FIELD COURSE (1 COURSE)	2	0	0	3		FIELD COURSE - GROUP III (1 COURSE)	2	0	0	2
							FIELD COURSE - GROUP IV (1 COURSE)	2	2	0	4
							NON-FIELD COURSE (1 COURSE)	2	0	0	3
	TERM CREDITS				30		TERM CREDITS				30

* Only one Foreign Language course should be selected.

BURSA ULUDAĞ 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						