

BURSA ULUDAĞ ÜNİVERSİTESİ
2021-2022 EĞİTİM-ÖĞRETİM YILI

YAPI RESSAMLIĞI ve YAPI TASARIMI ÖĞRETMENLİĞİ MÜHENDİSLİK TAMAMLAMA 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	FZK1072	TEMEL FİZİK II	3	0	2	6
						INS1008	İNŞAAT MÜHENDİSLERİ İÇİN JEOLOJİ	2	0	0	2
						INS1012	STATİK	3	0	0	4
SEÇMELİ DERSLER					SEÇMELİ DERSLER						
ALAN İÇİ SEÇMELİ					ALAN İÇİ SEÇMELİ						
ALAN DIŞI SEÇMELİ					ALAN DIŞI SEÇMELİ						
YARIYIL KREDİSİ					YARIYIL KREDİSİ						
2					12						

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
MAT2083	DİFERANSİYEL DENKLEMLER	3	2	0	6	INS2004	SAYISAL ANALİZ	3	0	0	4
INS2001	İSTATİSTİK	2	0	0	3	INS2012	MUKAVEMET II	3	1	0	6
INS2005	MÜHENDİSLİK EKONOMİSİ	2	0	0	3						
INS2011	MUKAVEMET I	3	1	0	5						
SEÇMELİ DERSLER					SEÇMELİ DERSLER						
ALAN İÇİ SEÇMELİ					ALAN İÇİ SEÇMELİ						
ALAN DIŞI SEÇMELİ					ALAN DIŞI SEÇMELİ						
YARIYIL KREDİSİ					YARIYIL KREDİSİ						
17					10						

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
INS3031	YAPI STATİĞİ	3	2	0	5	INS3032	BETONARME II	2	1	0	5
INS3033	BETONARME I	3	1	0	5	INS3072	ZEMİN MEKANİĞİ II	2	1	1	5
INS3053	AKIŞKANLAR MEKANİĞİ	2	0	1	5	INS3086	ULAŞIM II	2	1	0	5
INS3071	ZEMİN MEKANİĞİ I	2	1	0	5	INS3054	HİDROLİK	2	1	0	4
INS3085	ULAŞIM I	2	1	0	5						
SEÇMELİ DERSLER					SEÇMELİ DERSLER						
ALAN İÇİ SEÇMELİ					ALAN İÇİ SEÇMELİ (1 ADET)						
ALAN DIŞI SEÇMELİ					ALAN DIŞI SEÇMELİ						
YARIYIL KREDİSİ					YARIYIL KREDİSİ						
25					24						

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	INS4000	BITİRME PROJESİ ****	0	2	0	6
INS4013	DENEYSEL TASARIM ***	1	0	2	6						
SEÇMELİ DERSLER					SEÇMELİ DERSLER						
ALAN İÇİ SEÇMELİ - II. GRUP (1 ADET)					ALAN İÇİ SEÇMELİ - I. GRUP (1 ADET)						
ALAN İÇİ SEÇMELİ - III. GRUP					ALAN İÇİ SEÇMELİ - II. GRUP						
ALAN DIŞI SEÇMELİ					ALAN İÇİ SEÇMELİ - III. GRUP						
					ALAN İÇİ SEÇMELİ - IV. GRUP						
					ALAN DIŞI SEÇMELİ						
YARIYIL KREDİSİ					YARIYIL KREDİSİ						
15					10						

* 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-ÖİD-12 Revizyon No:02

	AKTS
Toplam Seçmeli Ders Kredisi :	14
Toplam Mezuniyet Kredisi :	115
Toplam Seçmeli Ders Kredisi Oranı:	12%

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
INS1001	INTRODUCTION TO CIVIL ENGINEERING	2	0	0	2	FZK1072	BASIC PHYSICS II	3	0	2	6
						INS1008	GEOLOGY FOR CIVIL ENGINEERS	2	0	0	2
						INS1012	STATICS	3	0	0	4
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE						FIELD COURSE				
	NON-FIELD COURSE						NON-FIELD COURSE				
	TERM CREDITS				2		TERM CREDITS				12

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	INS2004	NUMERICAL ANALYSIS	3	0	0	4
INS2001	STATISTICS	2	0	0	3	INS2012	MECHANICS OF MATERIALS II	3	1	0	6
INS2005	ENGINEERING ECONOMICS	2	0	0	3						
INS2011	MECHANICS OF MATERIALS I	3	1	0	5						
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE						FIELD COURSE				
	NON-FIELD COURSE						NON-FIELD COURSE				
	TERM CREDITS				17		TERM CREDITS				10

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	INS3072	SOIL MECHANICS II	2	1	1	5
INS3053	FLUID MECHANICS	2	0	1	5	INS3086	TRANSPORTATION II	2	1	0	5
INS3071	SOIL MECHANICS I	2	1	0	5	INS3054	HYDROLIC	2	1	0	4
INS3085	TRANSPORTATION I	2	1	0	5						
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE						FIELD COURSE (1 COURSE)	2	1	0	5
	NON-FIELD COURSE						NON-FIELD COURSE				
	TERM CREDITS				25		TERM CREDITS				24

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
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						FIELD COURSE - GROUP II				
	NON-FIELD COURSE						FIELD COURSE - GROUP III				
							FIELD COURSE - GROUP IV				
							NON-FIELD COURSE				
	TERM CREDITS				15		TERM CREDITS				10

* Only one Foreign Language course should be selected.

** Based on Practice Principle/Application Principal of Civil Engineering Department.

*** The students, which will be take the Bachelor Thesis in the fall semester, can take the Experimental Design in the spring semester.

**** The students in their last semester before graduation can be the thesis in the fall semester.

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

BURSA ULUDAĞ ÜNİVERSİTESİ
2021-2022 EĞİTİM-ÖĞRETİM YILI
SEÇMELİ DERSLER LİSTESİ

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

I.YARIYIL/GÜZ					II.YARIYIL/BAHAR						
ALAN İÇİ SEÇMELİ DERSLER					ALAN İÇİ SEÇMELİ DERSLER						
KOD	DERSİN ADI	K	U	L	AKTS	KOD	DERSİN ADI	K	U	L	AKTS
ALAN DIŞI SEÇMELİ DERSLER					ALAN DIŞI SEÇMELİ DERSLER						
						INS1004	İNŞAAT MÜHENDİSLİĞİ ETİĞİ	2	0	0	3

III.YARIYIL/GÜZ					IV.YARIYIL/BAHAR						
ALAN İÇİ SEÇMELİ DERSLER					ALAN İÇİ SEÇMELİ DERSLER						
KOD	DERSİN ADI	K	U	L	AKTS	KOD	DERSİN ADI	K	U	L	AKTS
INS2007	YABANCI DİLDE OKUMA VE YAZMA I	2	0	0	2	INS2006	YABANCI DİLDE OKUMA VE YAZMA II	2	0	0	2
INS2009	MESLEKİ YABANCI DİL I	2	0	0	2	INS2008	MESLEKİ YABANCI DİL II	2	0	0	2
ALAN DIŞI SEÇMELİ DERSLER					ALAN DIŞI SEÇMELİ DERSLER						

V.YARIYIL/GÜZ					VI.YARIYIL/BAHAR						
ALAN İÇİ SEÇMELİ DERSLER					ALAN İÇİ SEÇMELİ DERSLER						
KOD	DERSİN ADI	K	U	L	AKTS	KOD	DERSİN ADI	K	U	L	AKTS
INS3001	YABANCI DİLDE OKUMA VE YAZMA III	2	0	0	2	INS3020	BETON TEKNOLOJİSİ	2	1	0	5
INS3003	MESLEKİ YABANCI DİL III	2	0	0	2	INS3030	DEPREME DAYANIKLI BETONARME YAPI TASARIMI	2	1	0	5
						INS3036	YAPI DİNAMİĞİNE GİRİŞ	2	1	0	5
						INS3038	İLERİ YAPISAL ANALİZ	2	1	0	5
ALAN DIŞI SEÇMELİ DERSLER					ALAN DIŞI SEÇMELİ DERSLER						
MIM3099	MİMARLIK BİLGİSİ	2	0	0	3	CAL3206	İŞ HUKUKU	2	0	0	3
INS3015	GAYRİMENKUL DEĞERLEME	2	0	0	3	INS3042	İZOLASYON TEKNİKLERİ	2	0	0	3
INS3017	İŞ MAKİNALARI	2	0	0	3						

VII.YARIYIL/GÜZ					VIII.YARIYIL/BAHAR						
ALAN İÇİ SEÇMELİ-II. GRUP DERSLER					ALAN İÇİ SEÇMELİ - I. GRUP DERSLER						
KOD	DERSİN ADI	T	U	L	AKTS	KOD	DERSİN ADI	T	U	L	AKTS
INS4011	SONLU ELEMANLARA GİRİŞ	3	1	0	5	INS4022	YAPI MEKANİZMALARINDA BİLGİSAYAR UYGULAMALARI	2	2	0	4
INS4021	İLERİ DİFERANSİYEL DENKLEMLER	3	1	0	5	INS4046	YAPI MÜHENDİSLİĞİNDE BİLGİSAYAR UYGULAMALARI	2	2	0	4
INS4035	BETONARME YAPI PROJESİ	3	1	0	5	INS4052	HİDROLİKTE BİLGİSAYAR UYGULAMALARI	2	2	0	4
INS4051	SU KAYNAKLARI MÜHENDİSLİĞİ	3	1	0	5	INS4078	GEOTEKNİKTE MÜHENDİSLİĞİNDE BİLGİSAYAR UYGULAMALARI	2	2	0	4
INS4053	KIYI MÜHENDİSLİĞİ	3	1	0	5	INS4098	ULAŞIM MÜHENDİSLİĞİNDE BİLGİSAYAR UYGULAMALARI	2	2	0	4
INS4073	TEMELLERİN TASARIMI	3	1	0	5						
INS4087	TRAFİK MÜHENDİSLİĞİ	3	1	0	5						
INS4055	SU TEMİNİ VE ÇEVRE SAĞLIĞI	3	1	0	5						
ALAN İÇİ SEÇMELİ - III. GRUP DERSLER					ALAN İÇİ SEÇMELİ - II. GRUP DERSLER						
INS4015	MÜHENDİSLİKTE OPTİMİZASYON	2	1	0	4	INS4030	ÇELİK YAPI PROJESİ	2	1	0	3
INS4017	NANOTEKNOLOJİ VE NANOMEKANİĞE GİRİŞ	2	1	0	4	INS4034	YIĞMA YAPI TASARIM İLKELERİ	2	1	0	3
INS4019	MÜHENDİSLİKTE MATRİS METOTLAR	2	1	0	4	INS4036	DEPREM MÜHENDİSLİĞİNE GİRİŞ	2	1	0	3
INS4031	BİLGİSAYAR DESTEKLİ YAPI ANALİZİ	2	1	0	4	INS4042	AHŞAP YAPILAR	2	1	0	3
INS4037	BİLGİSAYAR DESTEKLİ TEKNİK ÇİZİM	2	1	0	4	INS4054	HİDROLOJİDE COĞRAFI BİLGİ SİSTEMLERİ	2	1	0	3
INS4039	YAPI MAZEME TESTLERİ	2	1	0	4	INS4062	KIYI VE LİMAN YAPILARI	2	1	0	3
						INS4072	DAYANMA YAPILARI	2	1	0	3
						INS4074	KAZIKLI TEMELLER	2	1	0	3
						INS4086	DEMİR YOLLARI	2	1	0	3
ALAN İÇİ SEÇMELİ - III. GRUP DERSLER					ALAN İÇİ SEÇMELİ - III. GRUP DERSLER						
						INS4006	YABANCI DİLDE OKUMA VE YAZMA IV	2	0	0	2
						INS4008	MESLEKİ YABANCI DİL IV	2	0	0	2
ALAN İÇİ SEÇMELİ - IV. GRUP DERSLER					ALAN İÇİ SEÇMELİ - IV. GRUP DERSLER						
						INS4032	İNŞAAT YÖNETİMİ	2	2	0	4
						INS4038	ŞANTIYE TEKNİĞİ	2	2	0	4
ALAN DIŞI SEÇMELİ DERSLER					ALAN DIŞI SEÇMELİ DERSLER						
INS4023	FARŞÇA	2	0	0	3	INS4018	BİLİMİN DOĞASI VE BİLİM TARİHİ	2	0	0	3

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					FIELD COURSES - GROUP III						
						INS4006	FOREIGN LANGUAGE READING AND WRITING IV	2	0	0	2
						INS4008	VOCATIONAL FOREIGN LANGUAGE IV	2	0	0	2
NON-FIELD COURSES					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						