

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
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE						FIELD COURSE				
	NON-FIELD COURSE						NON-FIELD COURSE				
	TERM CREDITS				0		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
<i>MAT2083</i>	<i>DIFFERENTIAL EQUATIONS</i>	3	2	0	6	<i>INS2012</i>	<i>MECHANICS OF MATERIALS II</i>	3	1	0	6
						<i>INS2014</i>	<i>DYNAMICS</i>	3	0	0	5
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE						FIELD COURSE				
	NON-FIELD COURSE						NON-FIELD COURSE				
	TERM CREDITS				6		TERM CREDITS				11

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
<i>INS3031</i>	<i>STRUCTURAL ANALYSIS</i>	3	2	0	5	<i>INS3032</i>	<i>REINFORCED CONCRETE II</i>	2	1	0	5
<i>INS3033</i>	<i>REINFORCED CONCRETE I</i>	3	1	0	5	<i>INS3072</i>	<i>SOIL MECHANICS II</i>	2	1	1	5
<i>INS3053</i>	<i>FLUID MECHANICS</i>	2	0	1	5	<i>INS3086</i>	<i>TRANSPORTATION II</i>	2	1	0	5
						<i>INS3054</i>	<i>HYDROLIC</i>	2	1	0	4
	ELECTIVE COURSES						ELECTIVE COURSES				
	FIELD COURSE						FIELD COURSE (1 COURSE)	2	1	0	5
	NON-FIELD COURSE						NON-FIELD COURSE				
	TERM CREDITS				15		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
<i>INS4033</i>	<i>STEEL STRUCTURES</i>	2	2	0	4						
	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 (1 COURSE)	2	2	0	4
							NON-FIELD COURSE				
	TERM CREDITS				9		TERM CREDITS				8

* Only one Foreign Language course should be selected.

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

** 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.

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	HAFTALIK DERS SAATİ				KOD	DERSİN ADI	HAFTALIK DERS SAATİ			
		K	U	L	AKTS			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	HAFTALIK DERS SAATİ				KOD	DERSİN ADI	HAFTALIK DERS SAATİ			
		K	U	L	AKTS			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	HAFTALIK DERS SAATİ				KOD	DERSİN ADI	HAFTALIK DERS SAATİ			
		K	U	L	AKTS			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 MEKANİZMASINDA 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	YİĞMA 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 COĞRAFİ 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	ŞANTİYE 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