

2020-2021 UNDERGRADUATE CURRICULUM

FACULTY OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING UNDERGRADUATE CURRICULUM

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
TRD111	Turkish I	2	0	2	2	Compulsory	
ATA111	History of Turkish Revolution I	2	0	2	2	Compulsory	
CHM103	Chemistry	2	2	3	5	Compulsory	
PHYS113	Physics I	2	2	3	5	Compulsory	
MATH113	Mathematics I	3	2	4	6	Compulsory	
CE101	Introduction to Civil Engineering	3	0	3	6	Compulsory	
	Foreign Language Elective	2	2	3	4	Elective	
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Code	Course Title	T	A	С	ECTS	Status	Prerequisite
TRD111	Turkish I	2	0	2	2	Compulsory	
ATA111	History of Turkish Revolution I	2	0	2	2	Compulsory	
CHM103	Chemistry	2	2	3	5	Compulsory	
PHYS113	Physics I	2	2	3	5	Compulsory	
MATH113	Mathematics I	3	2	4	6	Compulsory	
CE101	Introduction to Civil Engineering	3	0	3	6	Compulsory	
	Foreign Language Elective	2	2	3	4	Elective	
	<u> </u>	Total (Credit	20	30		

Semester 3							
Code	Course Title	T	A	С	ECTS	Status	Prerequisite
MATH215	Mathematics III	2	2	3	6	Compulsory	MATH113
ME201	Computer Aided Technical Drawing	2	2	3	5	Compulsory	
CE201	Strength of Materials I	3	0	3	6	Compulsory	
CE205	Materials Science	3	0	3	6	Compulsory	
CE217	Dynamics	3	0	3	7	Compulsory	PHYS113
CE221	Introduction to Porgramming	2	2	3	2	Compulsory	
		Total (Credit	18	32		

Code	Course Title	T	A	С	ECTS	Status	Prerequisite
MATH220	Numerical Methods	2	2	3	4	Compulsory	MATH113
CE311	Hydraulics	3	0	3	6	Compulsory	
CE303	Soil Mechanics I	3	0	3	6	Compulsory	
CE315	Earthwork and Railway Construction	3	0	3	4	Compulsory	
CE319	Theory of Structures I	3	0	3	5	Compulsory	
CE405	Steel Structures	3	0	3	5	Compulsory	
	Departmental Elective	3	0	3	5	Elective	
		Total (Credit	21	35		

Semester 7							
Code	Course Title	T	A	С	ECTS	Status	Prerequisite
BBA222	Entrepreneurship Applications	2	0	2	3	Compulsory	
CE435	Design Of Reinforced Concrete Structures	1	2	2	3	Compulsory	
CE443	Foundation Engineering	3	0	3	9	Compulsory	
CE447	Reinforced Concrete II	3	0	3	9	Compulsory	
CE497	Civil Engineering Design	0	2	1	4	Compulsory	
IE367	Occupational Health and Safety	3	0	3	5	Compulsory	
	Departmental Elective	3	0	3	5	Elective	
				17			
		Total Credit			38		

	I otal Credit	1/
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TOTAL CREDIT	144	
TOTAL ECTS	255	

Semester 2	T						
Code	Course Title	Т	A	C	ECTS	Status	Prerequisit
TRD112	Turkish II	2	0	2	2	Compulsory	
ATA112	History of Turkish Revolution II	2	0	2	2	Compulsory	
PHYS114	Physics II	2	2	3	5	Compulsory	PHYS113
MATH114	Mathematics II	3	2	4	6	Compulsory	MATH113
CLP001	Career and Life Planning	0	2	1	3	Compulsory	
CE102	Statics	3	0	3	8	Compulsory	
	Foreign Language Elective	2	2	3	4	Elective	
		Total	Credit	18	30		

Semester 4								
Code	Course Title	T		A	С	ECTS	Status	Prerequisite
MATH216	Mathematics IV	2		2	3	6	Compulsory	MATH114
MATH265	Probability and Statistics I	3		0	3	5	Compulsory	MATH113
CE204	Fluid Mechanics	3		0	3	4	Compulsory	
CE206	Building Materials	3		0	3	3	Compulsory	
CE228	Surveying	2		2	3	3	Compulsory	
CE210	Strength of Materials II	3		0	3	4	Compulsory	
	Departmental Elective	3		0	3	5	Elective	
		Tota	l Cr	redit	21	30		

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
MATH266	Probability and Statistics II	3	0	3	5	Compulsory	
CE302	Hydrology	3	0	3	6	Compulsory	
CE304	Soil Mechanics II	3	0	3	5	Compulsory	
CE306	Highway Engineering	3	0	3	5	Compulsory	
CE320	Theory of Structures II	3	0	3	6	Compulsory	
CE340	Reinforced Concrete I	3	0	3	8	Compulsory	
		Total (Credit	18	35		

Semester 8	3						
Code	Course Title	T	A	C	ECTS	Status	Prerequisite
CE498	Civil Engineering Graduation Project	0	4	2	4	Compulsory	
	Faculty Elective	3	0	3	5	Elective	
	University Elective	3	0	3	4	Elective	
	University Elective	3	0	3	4	Elective	
INT001	Internship I	0	0	0	4	Compulsory	
INT002	Internship II	0	0	0	4	Compulsory	
		Total (Credit	11	25		

 $Abbreviations: T=Weekly\ hours:\ theoretical;\ A=Weekly\ hours:\ application;\ C=Credits\ in\ Turkish\ System;\ ECTS=European\ Credit\ Transfer\ System$



UNDERGRADUATE CURRICULUM



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ELECTIVE COURSES

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
	SE	COND FOREIGN LAN	GUAG	E			
	D	EPARTMENTAL ELE	CTIVI	3			•
		FACULTY ELECTI	VE				
		UNIVERSITY ELECT	IVE				

Semester							
Code	Course Title	T	A	C	ECTS	Status	Prerequisite
	S	COND FOREIGN LANGU	AGE				
		EPARTMENTAL ELECT	IVE				
		FACULTY ELECTIVE					
		UNIVERSITY ELECTIV	E				

Semester	3

Code	Course Title	T	•	A	C	ECTS	Status	Prerequisite
	\$	SECOND FOREIGN LA	١NG	UAGI	E			
		DEPARTMENTAL EI	EC	TIVE				
		FACULTY ELEC	TIV	E				
		UNIVERSITY ELE	CTI	VE				

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		CE203
		CE307
		CE316
		CE203 CE307 CE316 CE420 CE421 CE470 CE481
		CE421
		CE470
		CF481
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Semester 4

Code	Course Title	T	A	C	ECTS	Status	Prerequisite
	SECOND FOREIGN I	LANGUA	AGE				
	DEPARTMENTAL I	ELECTI	VE				
CE203	Engineering Geology	3	0	3	5	Elective	
CE307	Construction Engineering and Management	3	0	3	5	Elective	
CE316	Fundamentals of Traffic Engineering	3	0	3	5	Elective	
CE420	Environmental Sanitation	3	0	3	5	Elective	
CE421	Rock Blasting Technology For Construction	3	0	3	5	Elective	
CE470	Energy Efficiency Applications in Buildings	3	0	3	5	Elective	
CE481	Hazardous Waste Management	3	0	3	5	Elective	
	FACULTY ELE	CTIVE					•
	UNIVERSITY EL	ECTIVE					
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Semester 5

Code	Course Title		T	A	C	ECTS	Status	Prerequisite					
SECOND FOREIGN LANGUAGE													
	DEPARTMENTAL ELECTIVE												

emester 6

Code	Course Title	T	A	C	ECTS	Status	Prerequisite				
SECOND FOREIGN LANGUAGE											
DEPARTMENTAL ELECTIVE											



FACULTY ELE	CTIV	E		UN	DERGRAI
UNIVERSITY EL	ECTI	VE			

emesters 5 and 7

Semesters							
Code	Course Title	T	A	C	ECTS	Status	Prerequisite
	ELECTIVE						
CE307	Construction Engineering and Management	3	0	3	5	Elective	
CE312	Computer Aided Structrual Modelling and Analysis	3	0	3	5	Elective	
CE316	Fundamentals of Traffic Engineering	3	0	3	5	Elective	
CE321	Advanced Materials Technology	3	0	3	5	Elective	
CE323	Composite Materials	3	0	3	5	Elective	
CE403	Water Supply and Sewage Systems	3	0	3	5	Elective	
CE403	Water Resources Engineering	3	0	3	5	Elective	
CE407	Soil Mechanics - III	3	0	3	5	Elective	
CE417	Groundwater Hydraulics	3	0	3	5	Elective	
CE420	Environmental Sanitation	3	0	3	5	Elective	
CE421	Rock Blasting Technology For Construction	3	0	3	5	Elective	
CE425	Special Concretes	3	0	3	5	Elective	
CE433	Concrete Technology	3	0	3	5	Elective	
CE451	Coastal and Harbour Structures	3	0	3	5	Elective	
CE454	Water Power	3	0	3	5	Elective	
CE456	Risk Management in Construction	3	0	3	5	Elective	
CE458	Construction Project Management	3	0	3	5	Elective	
CE460	Irrigation and Drainage	3	0	3	5	Elective	
CE462	Prestressed Concrete	3	0	3	5	Elective	
CE434	Earthquake Resistant Design and Performance Evaluati	3	0	3	5	Elective	
CE466	Open Channel Flow	3	0	3	5	Elective	
CE468	Reinforced Concrete Project Design	3	0	3	5	Elective	
CE470	Energy Efficiency Applications in Buildings	3	0	3	5	Elective	
CE472	Durability of Concrete	3	0	3	5	Elective	
CE474	Admixtures for Concrete	3	0	3	5	Elective	
CE481	Hazardous Waste Management	3	0	3	5	Elective	
CE492	Civil Engineering O'COOP 1	3	0	3	4	Elective	

CURRIC	ULUM FACULTY EI	ECTIVE			•	•
	UNIVERSITY I	ELECTIVE	,			

Semester 8

Semester o							
Code	Course Title	T	A	С	ECTS	Status	Prerequisite
	FACULTY ELECT	IVE					
CE496	Civil Engineering O'COOP 3	3	0	3	5	Elective	
ENG301	Management for Engineers	3	0	3	5	Faculty Electi	ve
ENG302	Fuzzy Logic and Its Applications	3	0	3	5	Faculty Electi	ve
ENG303	Project Management	3	0	3	5	Faculty Electi	ve
ENG304	Technology Manangement	3	0	3	5	Faculty Electi	ve
	Introduction to Information						
ENG305	Security	3	0	3	5	Faculty Electi	ve
ENG306	Introduction to Web Programming	3	0	3	5	Faculty Electi	ve
ENG307	Biotechnology:Combining Engineering with the Biological S	3	0	3	5	Faculty Electi	ve
ENG308	Energy Policy	3	0	3	5	Faculty Electi	ve
ENG310	Sustainable Energy & Environment	3	0	3	5	Faculty Electi	ve
ENG316	Introduction to Traffic Engineering	3	0	3	5	Faculty Electi	ve
ENG318	Introduction to Environmental Engineering	3	0	3	5	Faculty Electi	ve
ENG368	Wireless Network	3	0	3	5	Faculty Electi	ve

FR.OGR.200(E)/ Rev.01