

ITU ENVIRONMENTAL ENGINEERING UNDERGRADUATE PROGRAM - CURRICULUM for students admitted after 2011-2012 Fall

I. TERM

Code	Course Name	Credit	Course	Prac	Lab	Type	C/E	Term	Prerequisites	ECTS
KIM 101E	General Chemistry I	3	3	0	0	BE	C	1	-	4.5
KIM 101EL	General Chemistry I Lab.	1	0	0	2	BE	C	1	-	1.5
CEV 113E	Introduction to Environmental Engineering	1.5	1	1	0	ES	C	1	-	3
MAT 103E	Calculus I	4	3	2	0	BE	C	1	-	6
FIZ 101E	Physics I	3	3	0	0	BE	C	1	-	4.5
FIZ 101EL	Physics I Lab.	1	0	0	2	BE	C	1	-	1.5
RES 111E	Technical Drawing (CAD)	2	1	0	2	ES	C	1	-	4
TUR 101	Turkish I	2	2	0	0	GE	C	1	-	2
	English Course I	3	3	0	0	GE	C	1	-	3.5
TOTAL OF THE TERM:		20.5	16	3	6				ECTS Total of the Term:	30.5

II. TERM

Code	Course Name	Credit	Course	Prac	Lab	Type	C/E	Term	Prerequisites	ECTS	
FIZ 106E	Physics II	3	3	0	0	BE	C	2	FIZ101E	4.5	
FIZ 106EL	Physics II Lab.	1	0	0	2	BE	C	2	FIZ101E ve FIZ101EL	1	
BIL 101E	Intr. to Comp. and Info. Sys.	1.5	1	0	1	ES	C	2	-	2.5	
MAT 104E	Calculus II	4	3	2	0	BE	C	2	MAT101E veya MAT103E	6.5	
STA 204E	Statics and Strength of Materials	3	3	0	0	ES	C	2	-	4.5	
TUR 102	Turkish II	2	2	0	0	GE	C	2	-	2	
MAT 271E	Probability and Statistics	3	3	0	0	BE	C	2	-	5	
	English Course II	3	3	0	0	GE	C	2	English Course Prerequisites	3.5	
TOTAL OF THE TERM:		20.5	18	2	3				ECTS Total of the Term:	29.5	
										ECTS Total of the Year:	60

III. TERM

Code	Course Name	Credit	Course	Prac	Lab	Type	C/E	Term	Prerequisites	ECTS
ATA 101	History of Turkish Revolution I	2	2	0	0	GE	C	3	-	2
MAT 201E	Differential Equations	4	4	0	0	BS	C	3	MAT 102E veya MAT104E	5.5
BIL 106E	Intr. to Sci & Eng Comp.	3	2	0	2	ES	C	3	BIL 101E	4.5
CEV 211E	Environmental Chemistry I	3	2	0	2	BS	C	3	KIM101E	5.5
CEV 213E	Environmental Microbiology	3	2	0	2	BS	C	3	-	5.5
MAL 201E	Materials Science	3	3	0	0	ES	C	3	-	5
	Restricted Elective Course (BS)	3	3	0	0	BE	E	3	Elective Courses Prerequisites	4
TOTAL OF THE TERM:		21	18	0	6				ECTS Total of the Term:	32

IV. TERM

Code	Course Name	Credit	Course	Prac	Lab	Type	C/E	Term	Prerequisites	ECTS	
AKM 204E	Fluid Mechanics	3	3	0	0	ES	C	4	MAT 102 veya MAT 104E	5	
ATA 102	History of Turkish Revolution II	2	2	0	0	GE	C	4	-	2	
CEV 228	Earth Science	3	2	1	1	ES	C	4	-	4.5	
CEV 212E	Environmental Chemistry II	3	2	0	2	BE	C	4	CEV 211E	5.5	
TER 201E	Thermodynamics	3	3	0	0	ES	C	4	KIM 101E ve (FIZ 101E veya FIZ111E)	4.5	
ING 201	English III	3	3	0	0	GE	C	4	English Course Prerequisites	3.5	
	Restricted Elective Course (ES)	2	2	0	0	ES	E	4	Elective Courses Prerequisites	3	
TOTAL OF THE TERM:		19	17	1	3				ECTS Total of the Term:	28	
										ECTS Total of the Year:	60

V. TERM

Code	Course Name	Credit	Course	Prac	Lab	Type	C/E	Term	Prerequisites	ECTS
INS 361E	Hydraulics	2.5	2	1	0	ES	C	5	AKM 204E	4
CEV 242E	Urban Hydrology	2.5	2	1	0	ES	C	5	AKM 204E	4
CEV 327E	Chemical Processes	2.5	2	1	0	ES	C	5	CEV 212E	4
CEV 329E	Solid Waste Management	3	2	1	1	ED	C	5	-	4.5
CEV 345E	Control and Automation in Treatment Systems	2	2	0	0	ED	C	5	AKM 204E	3
CEV 347E	Unit Operations	2.5	2	1	0	ES	C	5	-	4
CEV 343E	Water Quality Management	2.5	2	1	0	ES	C	5	CEV 212E	4
	Restricted Elective Course (ED)	2	2	0	0	ED	E	5	Elective Courses Prerequisites	3
TOTAL OF THE TERM:		19.5	16	6	1				ECTS Total of the Term:	30.5

VI. TERM

Code	Course Name	Credit	Course	Prac	Lab	Type	C/E	Term	Prerequisites	ECTS	
CEV 320E	Biological Processes	2.5	2	1	0	ES	C	6	CEV 213E and CEV 347E	4	
CEV 324E	Unit Operations and Processes Laboratory	2	0	0	4	ES	C	6	CEV 213E and CEV 347E and CEV 327E	3.5	
CEV 326E	Air Pollution	3	2	1	1	ED	C	6	KIM101E	4	
CEV 328E	Water Supply and Wastewater Disposal	3.5	2	3	0	ED	C	6	INS361E and CEV242E	5	
CEV 330E	Water Treatment Plant Design	3	2	2	0	ED	C	6	CEV 347E and CEV 327E and INS361E	6	
	Elective Course (ED)	2	2	0	0	ED	E	6	Elective Courses Prerequisites	3	
	Restricted Elective Course (GE)	3	3	0	0	GE	E	6	Elective Courses Prerequisites	4	
TOTAL OF THE TERM:		19	13	7	5				ECTS Total of the Term:	29.5	
										ECTS Total of the Year:	60

VII. TERM

Code	Course Name	Credit	Course	Prac	Lab	Type	C/E	Term	Prerequisites	ECTS
CEV 437E	Wastewater Treatment Plant Design	5	4	2	0	ED	C	7	CEV 320E and CEV 345E	7
CEV 429E	Industrial Pollution Control	2.5	2	1	0	ED	C	7	-	4.5
CEV 427E	Environmental Modeling Principles	2.5	2	1	0	ES	C	7	MAT201E	5.5
CEV 433E	Hazardous Waste Management	2	2	0	0	ES	C	7	-	4
CEV 471E	Ethics for Environmental Engineers	1	1	0	0	ITB	Z	7	-	2
	Restricted Elective Course (ED)	2	2	0	0	ED	E	7	Elective Courses Prerequisites	3
	Elective Course (GE)	3	3	0	0	GE	E	7	Elective Courses Prerequisites	4
TOTAL OF THE TERM:		18	16	4	0				ECTS Total of the Term:	30

VIII. TERM

Code	Course Name	Credit	Course	Prac	Lab	Type	C/E	Term	Prerequisites	ECTS	
CEV 492E	Graduation Design Project	3	0	6	0	ED	C	8	-	9	
CEV 432E	Environmental Economics	2	2	0	0	GE	C	8	-	4	
CEV 456E	Occupational Health and Safety	1	1	0	0	GE	C	8	-	2	
CEV 442E	Environmental Law	2	2	0	0	GE	C	8	CEV 343E	3	
	Elective Course I (ED)	2	2	0	0	ED	E	8	Elective Courses Prerequisites	3	
	Elective Course II (ED)	2	2	0	0	ED	E	8	Elective Courses Prerequisites	3	
	Elective Course III (ED)	2	2	0	0	ED	E	8	Elective Courses Prerequisites	3	
	Elective Course IV (ED)	2	2	0	0	ED	E	8	Elective Courses Prerequisites	3	
TOTAL OF THE TERM:		16	13	6	0				ECTS Total of the Term:	30	
										ECTS Total of the Year:	60

TOTAL 153.5 127 29 24