T.C. FIRAT ÜNİVERSİTESİ KEBAN MESLEK YÜKSEKOKULU MÜDÜRLÜĞÜ



ENVIRONMENTAL PROTECTION AND CONTROL PROGRAM COURSE PLAN AND COURSE CONTENTS

<u>Keban</u> Elazig

T.C.
FIRAT UNIVERSITY
KEBAN VOCATIONAL SCHOOL
DEPARTMENT OF ENVIRONMENTAL PROTECTION TECHNOLOGIES
ENVIRONMENTAL PROTECTION AND CONTROL PROGRAM
COURSE PLAN

	1ST GRADE FALL SE	MESTER				
Course Code	Course Name	C/E*	T	P	Cr	ECTS*
TRD109	Turkish Language I	Z	2	0	2	2
YDİ107	English I	Z	2	0	2	2
FU101	Introduction to University Life	Z	2	0	2	2
KİM101	General Chemistry	Z	2	0	2	3
MAT103	General Mathematics	Z	2	0	2	3
KÇK101	Environmental Principles	Z	3	0	3	5
KÇK103	General Ecology	Z	3	0	3	5
KÇK105	Environmental Microbiology	Z	2	2	3	4
KÇK107	General Biology	Z	2	0	2	4
Total			20	2	21	30

^{*}C: Compulsory course, E: Elective course, T: Theoretical, P: Practical, Cr: Credit, ECTS: European Credit Transfer System.

	1ST GRADE SPRING	SEMESTER	1			
Course Code	Course Name	C/E*	T	P	Cr	ECTS*
TRD110	Turkish Language II	Z	2	0	2	2
YDİ108	English II	Z	2	0	2	2
KÇK102	Solid Waste Control	Z	2	2	3	5
KÇK104	Environmental Chemistry	Z	2	2	3	4
KÇK106	Environment and Public Health	Z	2	0	2	4
KÇK108	Water Quality and Control	Z	2	2	3	5
KÇK110	Environmental Impact Assessment	Z	2	0	2	5
	Elective course	Е	2	0	2	3
Total			16	6	19	30
	ELECTIVE COU	TRSE (*)				
KÇK112	Renewable Energy Sources	Е	2	0	2	3
KÇK114	Waste Recycling Methods	Е	2	0	2	3
KÇK116	First Aid	Е	2	0	2	3

^{*} It is mandatory to choose one of the elective courses.

	2ND GRADE FALL S	EMESTER				
Course Code	Course Name	C/E*	T	P	Cr	ECTS*
AİT209	Ataturk's Principles and Revolutionary History I	Z	2	0	2	2
KÇK201	Hazardous Wastes	Z	2	1	3	3
KÇK203	Wastewater Treatment	Z	2	2	3	4
KÇK205	Physical Basic Operations	Z	2	1	3	4
KÇK207	Chemical Basic Operations	Z	2	1	3	4
KÇK209	Air Pollution and Control	Z	2	1	3	4
KÇK211	Professional Practice	Z	0	2	1	6
	Elective course	Е	2	0	2	3
Total			14	8	20	30
	ELECTIVE COU	RSE (*)				
KÇK213	Environmental Management Systems	Е	2	0	2	3
KÇK215	Zero Waste Technology in Production	Е	2	0	2	3
KÇK217	Occupational Health and Safety	Е	2	0	2	3

^{*} It is mandatory to choose one of the elective courses.

	2ND GRADE SPRING	SEMESTER				
Course Code	Course Name	C/E*	T	P	Cr	ECTS*
AİT210	Ataturk's Principles and Revolution History II	Z	2	0	2	2
KÇK202	Anaerobic Treatment	Z	2	1	3	3
KÇK204	Environmental Biotechnology	Z	2	0	2	3
KÇK206	Hydrology	Z	2	1	3	4
KÇK208	Soil Pollution and Control	Z	2	1	3	4
KÇK210	Industrial Pollution Control	Z	2	1	3	4
KÇK212	Environmental Legislation	Z	2	0	2	4
KÇK214	Water Supply and Sewage	Z	2	0	2	3
	Elective course	Е	2	0	2	3
Total			18	4	22	30
	ELECTIVE COU	RSE (*)				
KÇK216	Disasters and Disaster Management	Е	2	0	2	3
KÇK218	Entrepreneurship	Е	2	0	2	3
KÇK220	Urbanism and Environmental Planning	Е	2	0	2	3

^{*} It is mandatory to choose one of the elective courses.

T.C.

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DEPARTMENT OF ENVIRONMENTAL PROTECTION TECHNOLOGIES ENVIRONMENTAL PROTECTION AND CONTROL PROGRAM

COURSE CONTENTS

COURSE CONTENTS				-	
COURSES (I. TERM)	C/E	T	P	Cr	ECTS
TRD109 TURKISH LANGUAGE I	C	2	0	2 C.T. 1	2
Language, languages, Turkish Language, grammar, phonetic features of Turkish, pho					,
features of Turkish, sentence knowledge, spelling rules and punctuation marks, appli marks.	cation of sp	ening r	uies, ap	piication c	or punctuation
YDİ107 ENGLISH I	С	2	0	2	2
Verb Be, statements and questions, countries and nationalities, present simple tense,			v	_	_
questions, free time activities, verb Have / Has, family tree, there is / there are, place					
furniture, can / can't, months of the year, present simple tense, present continuous tens		ii, prese	• • • • • • • • • • • • • • • • • •		5 5 , 1001115 and
FU101 INTRODUCTION TO UNIVERSITY LIFE	C	2	0	2	2
Areas of responsibility, city and campus promotion, student groups and movements, car	eer center, c	lepartme	ent head	ls. life on c	ampus, career
planning and time management, personal care and hygiene, healthy living and sports, d					
written and verbal communication, traffic and environmental awareness, academic title	ranking and	consulta	ancy, do	mestic and	dinternational
higher education and student mobility, quality policies, higher education school activ					
affairs automation, distance education, continuing education center, disciplinary aff	fairs, regula	tions, g	uideline	es and sen	ate decisions,
grading system, passing courses, mobile technologies, short film techniques.		-			_
KİM101 GENERAL CHEMISTRY	C	2	0	2	3
Matter and its distinctive properties, phase change, mixtures and separation methods, ba					
table, mole concept, determination of atomic masses and chemical formulas, chemical					
to reaction equations, radioactivity, qualitative and quantitative analysis, solutions, titration, acids-bases and pH, gas laws	solutions ar	na conce	entratio	n, dilution	or solutions,
MAT103 GENERAL MATHEMATICS	С	2	0	2	3
To be able to perform arithmetic and algebraic operations. To be able to calculate the p	_				
with roots, fractions and equations that can be transformed to second degree. Real and					
one unknown. Root coefficient relations and solutions of inequalities in second degree.					
inequalities. To be able to use trigonometric ratios. To be able to understand complex r					
equation of a line in the plane, vectors, logarithms.		501.0 0			our oquations,
KCK101 ENVIRONMENTAL PRINCIPLES	С	3	0	3	5
Environment and definitions. Understanding the environment and the elements of the	e environm	ent. suc	h as air	. water. so	oil, sound and
aesthetics, and the factors that pollute these elements. Definition of Environmental Po					
problem solutions, solid waste, hazardous waste and control, environmental impact asso					
thermal pollution. Global warming, greenhouse effect. Population, urbanization	concepts. R	ecogniz	ing nat	tional and	international
institutions, organizations and organizations related to the environment. Having inform	ation about	the princ	ciples of	f creating of	environmental
policies. Radiation					
KÇK103 GENERAL ECOLOGY	C	3	0	3	5
Ecological concepts, classifications and theories. Animal ecology, plant ecology, defin					
ecosystem, marine ecosystem, terrestrial ecology, protection and management of					
characteristics, effects of pollution on ecosystems, energy in ecosystems, microbial eco		I approa	iches in	ecosystem	
KÇK105 ENVIRONMENTAL MICROBIOLOGY	C	2	2	3	4
History and development of microbiology. Microscope and its use. Classification of microbiology.					
Development, counting, identification, classification of microorganisms. Staining atmospheric microbiology, importance of microorganisms in environmental engineer	of bacteria	ı. Nutri	tional i	nedia. So	il, water and
systems, microbiological processes, applications and laboratory studies in the evaluation			gamsms	s in biolog	icai treatment
KCK107 GENERAL BIOLOGY	C C	2	Λ	2	1
Introduction to biology, differences between living and non-living things, struct	ure of livi		re eten		functions of
macromolecules, microorganisms, biogenesis, cell theory, enzymes, genes a					
phosphoglycerides, proteins, cell structure and cell organelles, photosynthesis-cellula					
basic information about animals, human body tissues, organs and systems.	r respiration	i, cerran	ii repro	uuction, p	iani kingaoin,
COURSES (SECOND TERM)	C/E	T	P	Cr	ECTS
TRD110 TURKISH LANGUAGE II	C	2	0	2	2
Reading with comprehension and pleasure, acquiring the habit of reading, evaluating	_				
making plans on this subject, writing sentences as paragraphs, written expression					
application of written expression types, preparation of scientific review articles, verbal					
forms and application of oral expression, types and application of oral expression.	1 /	,			1
YDİ108 ENGLISH II	C	2	0	2	2
Past simple, verb BE, events and places to go, past simple actions, school subjects, pa	st simple au	estions.	parts o	f the body	, future tense.
be + going to, travel, countable and uncountable nouns, foods, clothes, weather, adjectiv					
geographical features.				•	
KÇK102 SOLID WASTE CONTROL	C	2	2	3	5

and transportation of domestic solid waste, optimization in collection, transfer stations, for energy production, composting and recycling methods.	, evaluation	of solid	waste,	evaluation	of solid was
KCK104 ENVIRONMENTAL CHEMISTRY	C	2	2	3	4
Introduction to environmental chemistry, laboratory definition, introduction, safety, la	aboratory co	nsumab	les, sam	npling tech	nique, samp
aking, preparation and preservation methods, environmental chemistry solutions, car	se studies or	n the pr	eparatio	on of stand	lard solution
laboratory analysis techniques and analysis methods, instruments used in analysis	,		-	, I	
instrumental analysis methods, acidity, alkalinity, color and turbidity determination m					
weak acids, bases, hardness, fluoride, chloride data, dissolved oxygen, biological oxygen	ygen deman	d, chem	ical oxy	ygen dema	and, necessar
organic chemistry and biochemistry principles.	C	2	0	2	4
KÇK106 ENVIRONMENT AND PUBLIC HEALTH Basic health concepts, environmental disease concept and toxicology, etiology are	_	_	v	_	4 - of diagona
transmission and immunization, effects of air pollution on health, effects of water pol					
effects of noise pollution on health, effects of radioactive pollution on health, effects of					
and cancer, elimination of pollution effects. Disease-causing biotic factors. First aid			,		r
KÇK108 WATER QUALITY AND CONTROL	C	2	2	3	5
Introduction to water quality and control, importance and properties of water, hydronical	rological cy	cle, wat	er pollı	ution, wat	er quality ar
discharge standards, drinking, utility and irrigation water properties, changes in water					
basic principles of water quality protection					
KÇK110 ENVIRONMENTAL IMPACT ASSESSMENT	C	2	0	2	5
Definition of EIA, its purpose, benefits, principles, preparation methods. Legal reg					
impact, alternative projects, environmental impact assessment report and preparation pr	rinciples. EIA	A report	exampl	es from va	rious project
Environmental impact assessment regulation.	77	•	0	•	2
KÇK112 RENEWABLE ENERGY RESOURCES	E	2	0	2	3
Definition and types of energy, energy production sources, fossil fuels and their environ					
n the world and in Turkey, solar energy, wind energy, geothermal energy, biogas and hydroelectric power plants and their environmental effects, energy obtained from the se					
KÇK114 WASTE RECOVERY METHODS	E	2	, chergy	2	3
What is waste? Harms of waste. Waste types, waste recycling methods, recycling methods.			Ü		
mpact values of waste, benefits of recycling of waste. Definition of recovery, rec					
Contribution of recovery to national economy, benefits to environment and human hea					
Waste regulations, legal regulations and responsibilities imposed on institutions. Recy					
stages of recycling system.			•		
KÇK116 FIRST AID	S	2	0	2	3
Basic applications of first aid, first and second assessment, basic life support for adults	s, basic life s	upport f	or child	dren and in	fants, first a
for respiratory tract obstruction, external and internal bleeding, wounds and wound to					
fractures, dislocations and sprains, first aid for diseases requiring emergency care, emergency	rgency carry	ing tech	niques,	fast carry	ing technique
61		-			
for short distances, carrying patients or injured people by creating a stretcher.	C/F	т	D	Cu	
COURSES (3RD TERM)	C/E	T	P	Cr	ECTS
COURSES (3RD TERM) AİT209 ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION I	C	2	0	2	ECTS 2
COURSES (3RD TERM) ATT209 ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION I Definitions of the terms revolution and history, world revolutions and the place of the	C e Turkish re	2 volution	0 within	them, cha	ECTS 2 aracteristics
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connection between Environmental Management System ISO 14001 and Quality Standa in Turkey.	nvironmenta ement, Envi ards System	al traini ronmen ISO 90	ng, Env tal Man	rironmenta agement	
KCK215 ZERO WASTE TECHNOLOGIES IN PRODUCTION	E	2	U	2	3
Examining the methods of evaluating waste, creating a waste management plan and a Installation, Zero Waste Regulation, Zero Waste Project and Applications in Production		manage	ment pl	an, Zero	Waste System
KÇK217 OCCUPATIONAL HEALTH AND SAFETY	E	2	0	2	3
The concept of occupational safety, the economic importance of occupational safersponsibilities, the Occupational Health and Safety Law No. 6331, definition of occup fire and fire extinguishing methods, occupational health and safety in hand tools, physic hazards, methods and solutions in accident investigations, occupational health and safety evaluation of workplace environmental factors, analysis of occupational health and safaid information, occupational diseases and legal liability, emergency plans. Environment	pational acc cal, chemica y applicatio fety risks, p	idents, o al, biolo n princi periodic	causes a gical ris ples, app control	nd prever ks, hazard propriate j examinat	ition methods, is and types of ob placement, ion, basic first
COURSES (4TH TERM)	C/E	T	P	Cr	ECTS
AİT210 ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION II	C	2	0	2	2
Declaration of the Republic, the first constitution, Atatürk's principles and revolutions cultural and other fields), Turkey and the world states during the period of single-parebellions, the foreign policy of the Government of the Republic of Turkey, treaties, the Cothe multi-party era, Ataturk's death, II. World War and Turkiye, developments in Republic of Turkiye, Turkiye's principles and goals in the period of rapid progress.	arty govern Orient and th Turkiye's fo	ments, 1 ne Arme	he Rep	ublican poue, attemp	eriod, internal
KÇK202 ANAEROBIC TREATMENT	C	2	0	2	3
Anaerobic treatment. Advantages and disadvantages. Kinetics, microbiology and bioch reactors. Anaerobic filters. Anaerobic sludge bed reactors. Anaerobic fluidized bed restage anaerobic treatment systems. Anaerobic sequencing batch reactors. Operating comprocesses	actors. Clas	ssical an	aerobic	sludge di	igesters. Two-
KÇK204 ENVIRONMENTAL BIOTECHNOLOGY	C	2	0	2	3
Biotechnology definition, history, classification. Biotechnological applications in variant Introduction to environmental biotechnology. Environmentally friendly technologies. Phytoremediation. Bioremediation.	ous fields. l ogies. App	History dication	of envii examı	ronmental oles of o	technologies. environmental
KÇK206 HYDROLOGY	C	2	1	3	4
Definition of hydrology, system concept in hydrological studies. Hydrological cycle, w		ces of tl	ne world	d, definition	
of hydrology, precipitation; occurrence of precipitation, types and measurement, measurement, infiltration; calculation of infiltration capacity, factors affecting infiltration analysis, characteristics of basins.	on capacity,	ground		ecting eva urface flow	aporation and
of hydrology, precipitation; occurrence of precipitation, types and measurement, measurement, infiltration; calculation of infiltration capacity, factors affecting infiltrationallysis, characteristics of basins. KCK208 SOIL POLLUTION AND CONTROL	on capacity,	ground 2	water, s	ecting eva urface flow	aporation and w, hydrograph
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problems of urbanism and regional planning in Turkey. Industrialization, urbanization and environmental problems.

NOTE: A 30-day internship is required during the spring semester summer term of the first year.