

ULUDAĞ UNIVERSITY INSTITUTE OF SCIENCE 2017-2018 ACADEMIC YEAR COURSE PLAN																
DE NT OF		ENVIRONMENTAL ENGINEERING														
DEPARTMENT / PROGRAM		/ Master's Degree Program														
COURSE STAGE	I. TERM / FALL								II. TERM / SPRING							
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS
	CEV5191	MA THESIS I	C	0	1	0	0	1	CEV5192	MS THESIS II	C	0	1	0	0	1
	CEV5301	ENVIRONMENTAL MOVEMENT OF CHEMICALS	C	3	0	0	3	6	CEV5172	SEMINAR	C	0	2	0	0	4
									CEV5302	STATISTICS FOR ENVIRONMENTAL ENGINEERS	C	3	0	0	3	6
									CEV5304	ADVANCED ENVIRONMENTAL ENGINEERING CHEMISTRY I	C	3	0	0	3	6
									CEV5000	RESEARCH TECHNIQUES and PUBLICATION ETHICS in ENVIRONMENTAL ENGINEERING	C	2	0	0	2	2
	CEV5181	ADVANCED TOPICS IN MS THESIS I	E	4	0	0	0	5	CEV5182	ADVANCED TOPICS IN MS THESIS II	E	4	0	0	0	5
	CEV5121	ENVIRONMENTAL MANAGEMENT	E	3	0	0	3	6	CEV5102	ENVIRONMENTAL INSTRUMENTAL ANALYSIS	E	2	0	2	3	6
	CEV5147	MICROBIAL QUALITY OF DRINKING WATER AND CONTROL OF DISINFECTION BY-PRODUCTS	E	3	0	0	3	6	CEV5122	WATER QUALITY MANAGEMENT	E	2	2	0	3	6
	CEV5243	INDUSTRIAL AIR POLLUTION	E	3	0	0	3	6	CEV5148	RECYCLE AND REUSE TECHNIQUES ON INDUSTRIAL WASTEWATERS	E	3	0	0	3	6
	CEV5247	BASICS OF ENVIRONMENTAL TECHNOLOGY	E	3	0	0	3	6	CEV5222	INDUSTRIAL WASTE MANAGEMENT	E	3	0	0	3	6
	CEV5249	DESIGN CRITERIA FOR WASTEWATER TREATMENT PLANTS	E	2	2	0	3	6	CEV5224	PRINCIPLES OF BIOLOGICAL TREATMENT	E	3	0	0	3	6
	CEV5251	STACK GAS MEASUREMENT AND ANALYSIS	E	2	0	2	3	6	CEV5226	WASTEWATER ENGINEERING	E	2	2	0	3	6
	CEV5253	MEASUREMENT AND MONITORING OF AMBIENT AIR	E	2	0	2	3	6	CEV5228	ION EXCHANGE AND ADSORPTION TECHNOLOGY IN WASTEWATER TREATMENT	E	2	2	0	3	6
	CEV5255	WETLAND SYSTEMS IN WASTEWATER TREATMENT	E	3	0	0	3	6	CEV5230	THE DESIGN OF LANDFILL AREAS	E	2	2	0	3	6
	CEV5257	ENVIRONMENTAL SAFETY FOR INDUSTRIES	E	3	0	0	3	6	CEV5232	AIR POLLUTION ENGINEERING	E	3	0	0	3	6
	CEV5263	RENEWABLE ENERGY AND ENVIRONMENT	E	3	0	0	3	6	CEV5234	ATMOSPHERIC TRANSPORT AND DEPOSITION	E	2	0	2	3	6
	CEV5265	CLEANER PRODUCTION PRINCIPLES	E	3	0	0	3	6	CEV5236	INSTRUMENTATION AND AUTOMATION OF WATER AND WASTEWATER TREATMENT PLANTS	E	2	2	0	3	6
	CEV5267	WATER AND WASTEWATER MICROBIOLOGY	E	3	0	0	3	6	CEV5238	BIOINDICATOR ORGANISMS IN DETERMINATION OF WATER QUALITY	E	3	0	0	3	6
	CEV5269	ANAEROBIC TREATMENT OF WASTES	E	3	0	0	3	6	CEV5242	DISINFECTION OF WATER AND WASTEWATER	E	3	0	0	3	6
	CEV5271	GREENHOUSE GASES CALCULATION METHODS AND CLIMATE CHANGE	E	2	2	0	3	6	CEV5244	MICROBIAL TECHNIQUES IN ENVIRONMENTAL ENGINEERING	E	3	0	0	3	6
	CEV5273	NANOTECHNOLOGY IN ENVIRONMENTAL ENGINEERING	E	3	0	0	3	6	CEV5246	ADVANCED ATMOSPHERIC CHEMISTRY	E	3	0	0	3	6
	CEV5275	INTEGRATED WASTE MANAGEMENT TECHNOLOGIES	E	3	0	0	3	6	CEV5248	ENVIRONMENTAL POLLUTION AND PUBLIC HEALTH	E	3	0	0	3	6
	CEV5277	WASTE DISPOSAL AND LEGAL FRAMEWORK	E	3	0	0	3	6	CEV5250	ON-SITE WASTEWATER TREATMENT	E	3	0	0	3	6
	CEV5279	FORMATION AND TREATMENT OF LANDFILL LEACHATE	E	3	0	0	3	6	CEV5306	ENERGY EFFICIENCY IN ENVIRONMENTAL POLLUTION AND CONTROL	E	3	0	0	3	6
	CEV5281	BIOLOGICAL TREATMENT OF INDUSTRIAL WASTEWATERS	E	3	0	0	3	6	CEV5308	ENVIRONMENTAL TOXICOLOGY	E	3	0	0	3	6

	CEV5303	COMPOSTING TECHNOLOGY	E	3	0	0	3	6	CEV5310	HYDROLOGY OF RIVER CATCHMENTS AND FLOOD-DROUGHT MODELLING	E	3	0	0	3	6		
	CEV5305	PRODUCTION OF BIOFUELS	E	3	0	0	3	6	CEV5312	ADVANCED PHYSICO-CHEMICAL TREATMENT PROCESSES	E	3	0	0	3	6		
	CEV5307	SEDIMENT POLLUTION AND TRANSPORT	E	3	0	0	3	6	CEV5314	WASTEWATER SLUDGE AND SOIL ANALYSIS	E	2	0	2	3	6		
	CEV5309	PRINCIPLES OF ENVIRONMENTAL POLLUTION	E	3	0	0	3	6	CEV5316	DEWATERING OF TREATMENT SLUDGES	E	3	0	0	3	6		
	CEV5311	SOIL POLLUTION AND CONTROL	E	3	0	0	3	6	CEV5318	ORGANIC MICROPOLLUTANTS AND CONTROL	E	3	0	0	3	6		
	Total Credits							12	30	Total Credits							11	30
STAGE THESIS	III. TERM / FALL								IV. TERM / SPRING									
									CEV5184	ADVANCED TOPICS IN MS THESIS IV	C	4	0	0	0	5		
	CEV5183	ADVANCED TOPICS IN MS THESIS III	C	4	0	0	0	5	CEV5194	MA THESIS IV	C	1	0	0	0	25		
	CEV5193	MA THESIS III	C	0	1	0	0	25	Total Credits							0	30	
	Total Credits							0	30	Total Credits							0	30
TOTAL CREDITS: 23 - TOTAL ECTS:120																		

Not: The student is expected to take a total of credited (.....) selective courses every academic term.
The student has the option of choosing one selective course from another department with the endorsement of the supervisor.

ULUDAĞ UNIVERSITY
INSTITUTE OF SCIENCE
2017-2018 ACADEMIC YEAR COURSE PLAN



DEPARTMENT OF
DEPARTMENT / PROGRAM

ENVIRONMENTAL ENGINEERING
/ Doctoral Program

COURSE STAGE	I. TERM / FALL								II. TERM / SPRING											
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS				
COURSE STAGE	CEV6191	PHD THESIS I	C	0	1	0	0	1	CEV6191	PHD THESIS II	C	0	1	0	0	1				
	CEV6301	ADVANCED ENVIRONMENTAL ENGINEERING CHEMISTRY II	C	3	0	0	3	6	CEV6172	SEMINAR	C	0	2	0	0	4				
									FEN6000	RESEARCH TECHNIQUES and PUBLICATION ETHICS	C	2	0	0	2	2				
	CEV6181	ADVANCED TOPICS IN PHD THESIS I	E	4	0	0	0	5	CEV6182	ADVANCED TOPICS IN PHD THESIS II	E	4	0	0	0	5				
	CEV6101	WATER CHEMISTRY	E	2	0	2	3	6	CEV6124	SURFACE WATER QUALITY MODELLING	E	2	2	0	3	6				
	CEV6123	LAKE WATER QUALITY MODELLING	E	2	2	0	3	6	CEV6208	DISPOSAL TECHNIQUES OF DOMESTIC AND INDUSTRIAL SLUDGE	E	2	2	0	3	6				
	CEV6221	HAZARDOUS WASTES	E	2	2	0	3	6	CEV6224	TREATMENT AND DISPOSAL OF INDUSTRIAL WASTES	E	2	2	0	3	6				
	CEV6225	STABILIZATION AND SOLIDIFICATION OF HAZARDOUS WASTES	E	3	0	0	3	6	CEV6242	AIR POLLUTION METEOROLOGY	E	3	0	0	3	6				
	CEV6227	COMPUTER SUPPORTED MODEL APPROACHES IN ACTIVATED SLUDGE SYSTEMS	E	2	2	0	3	6	CEV6244	USE OF RESPIROMETRIC METHOD IN DESIGN AND OPERATION OF ACTIVATED SLUDGE PROCESS	E	2	0	2	3	6				
	CEV6229	BIOLOGICAL TREATMENT OF TOXIC ORGANIC COMPOUNDS	E	3	0	0	3	6	CEV6246	OPERATION OF TREATMENT PLANTS	E	2	0	2	3	6				
	CEV6231	ADVANCED TREATMENT TECHNIQUES	E	2	2	0	3	6	CEV6248	BIOKINETICS TECHNIQUES OF WASTEWATER TREATMENT PLANTS	E	3	0	0	3	6				
	CEV6233	LAND APPLICATION OF WASTEWATER SLUDGES	E	3	0	0	3	6	CEV6250	WATER AND WASTEWATER TREATMENT WITH ADVANCED OXIDATION AND MEMBRANE TECHNOLOGIES	E	3	0	0	3	6				
	CEV6303	BIOMASS ENERGY TECHNOLOGIES	E	3	0	0	3	6	CEV6252	WASTE AND WASTEWATER TREATMENT FOR BIOTECHNOLOGY PROCESSES	E	3	0	0	3	6				
CEV6305	HAZARDOUS AIR POLLUTANTS AND RISK ANALYSIS	E	3	0	0	3	6	CEV6254	MODELLING OF ACTIVATED SLUDGE SYSTEMS	E	3	0	0	3	6					
Toplam Kredi								12	30	Toplam Kredi								11	30	
STAGE THESIS	III. TERM / FALL								IV. TERM / SPRING											
	CEV6183	ADVANCED TOPICS IN PHD THESIS	C	4	0	0	0	5	CEV6174	SEMINAR (THESIS)	C	0	2	0	0	5				
	CEV6193	PHD THESIS III	C	0	1	0	0	15	CEV6184	ADVANCED TOPICS IN PHD THESIS IV	C	4	0	0	0	5				
	YET6177	PHD PROFICIENCY EXAMINATION III	C	0	0	0	0	10	CEV6194	PHD THESIS IV	C	0	1	0	0	20				
	Toplam Kredi								0	30	Toplam Kredi								0	30
	V. TERM / FALL								VI. TERM / SPRING											
	CEV6185	ADVANCED TOPICS IN PHD THESIS V	C	4	0	0	0	5	CEV6186	ADVANCED TOPICS IN PHD THESIS VI	C	4	0	0	0	5				
	CEV6195	PHD THESIS V	C	0	1	0	0	25	CEV6196	PHD THESIS VI	C	0	1	0	0	25				
	Toplam Kredi								0	30	Toplam Kredi								0	30
	VII. TERM / FALL								VIII. TERM / SPRING											
	CEV6187	ADVANCED TOPICS IN PHD THESIS VII	C	4	0	0	0	5	CEV6188	ADVANCED TOPICS IN PHD THESIS VIII	C	4	0	0	0	5				
	CEV6197	PHD THESIS VII	C	0	1	0	0	25	CEV6198	PHD THESIS VIII	C	0	1	0	0	25				
	Toplam Kredi								0	30	Toplam Kredi								0	30
TOTAL CREDITS: 23 - TOTAL ECTS: 240																				

Not: The student is expected to take a total of credited (.....) selective courses every academic term.
The student has the option of choosing one selective course from another department with the endorsement of the supervisor.



U LUDAĞ UNIVERSITY
INSTITUTE OF NATURAL SCIENCES
2017-2018 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF ENVIRONMENTAL ENGINEERING
DEPARTMENT / PROGRAM Environmental Engineering / Integrated Doctoral Program

COURSE STAGE	I. TERM / FALL							II. TERM / SPRING										
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS		
COURSE STAGE	CEV6191	PHD THESIS I	C	0	1	0	0	1	CEV6192	PHD THESIS II	C	0	1	0	0	1		
	CEV6181	ADVANCED TOPICS IN PHD THESIS I	E	4	0	0	0	5	CEV6182	ADVANCED TOPICS IN PHD THESIS II	E	4	0	0	0	5		
		ELECTIVE COURSE	E	3	0	0	3	6		ELECTIVE COURSE	E	3	0	0	3	6		
		ELECTIVE COURSE	E	3	0	0	3	6		ELECTIVE COURSE	E	3	0	0	3	6		
		ELECTIVE COURSE	E	3	0	0	3	6		ELECTIVE COURSE	E	3	0	0	3	6		
		ELECTIVE COURSE	E	3	0	0	3	6		ELECTIVE COURSE	E	3	0	0	3	6		
	Total Credits							12	30	Total Credits							12	30
	III. TERM / FALL							IV. TERM / SPRING										
	CEV6193	PHD THESIS III	C	0	1	0	0	1	CEV6194	PHD THESIS IV	C	0	1	0	0	1		
	CEV6183	ADVANCED TOPICS IN PHD THESIS III	C	4	0	0	0	5	CEV6172	SEMINAR	C	0	2	0	0	4		
	CEV6301	ADVANCED ENVIRONMENTAL ENGINEERING CHEMISTRY II	C	3	0	0	3	5	CEV6184	ADVANCED TOPICS IN PHD THESIS IV	C	4	0	0	0	5		
		ELECTIVE COURSE	E	3	0	0	3	5	FEN6000	RESEARCH TECHNIQUES and PUBLICATION ETHICS	C	2	0	0	2	2		
	ELECTIVE COURSE	E	3	0	0	3	5		ELECTIVE COURSE	E	3	0	0	3	6			
	ELECTIVE COURSE	E	3	0	0	3	5		ELECTIVE COURSE	E	3	0	0	3	6			
	ELECTIVE COURSE	E	3	0	0	3	5		ELECTIVE COURSE	E	3	0	0	3	6			
Total Credits							12	30	Total Credits							11	30	
V. TERM / FALL							VI. YARIYIL / BAHAR											
YET6177	PHD PROFICIENCY EXAMINATION	C	0	0	0	0	10	CEV6186	ADVANCED TOPICS IN PHD THESIS VI	C	4	0	0	0	5			
CEV6185	ADVANCED TOPICS IN PHD THESIS V	C	4	0	0	0	5	CEV6196	PHD THESIS VI	C	0	1	0	0	25			
CEV6195	PHD THESIS V	C	0	1	0	0	15	Total Credits							0	30		
Total Credits							0	30	Total Credits							0	30	
VII. TERM / FALL							VIII. TERM / SPRING											
CEV6187	ADVANCED TOPICS IN PHD THESIS VII	C	4	0	0	0	5	CEV6188	ADVANCED TOPICS IN PHD THESIS VIII	C	4	0	0	0	5			
CEV6197	PHD THESIS VII	C	0	1	0	0	25	CEV6198	PHD THESIS VIII	C	0	1	0	0	25			
Total Credits							0	30	Total Credits							0	30	
IX. TERM / FALL							X. TERM / SPRING											
CEV6189	ADVANCED TOPICS IN PHD THESIS IX	C	4	0	0	0	5	CEV6190	ADVANCED TOPICS IN PHD THESIS X	C	4	0	0	0	5			
CEV6199	PHD THESIS IX	C	0	1	0	0	25	CEV6290	PHD THESIS X	C	0	1	0	0	25			
Total Credits							0	30	Total Credits							0	30	

TOTAL CREDITS:47 -TOTAL ECTS: 300

	I. TERM / ELECTIVE COURSES								II. TERM / ELECTIVE COURSES							
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS
COURSE STAGE	CEV5121	ENVIRONMENTAL MANAGEMENT	E	3	0	0	3	6	CEV5102	ENVIRONMENTAL INSTRUMENTAL ANALYSIS	E	2	0	2	3	6
	CEV5147	MICROBIAL QUALITY OF DRINKING WATER AND CONTROL OF DISINFECTION BY-PRODUCTS	E	3	0	0	3	6	CEV5122	WATER QUALITY MANAGEMENT	E	2	2	0	3	6
	CEV5243	INDUSTRIAL AIR POLLUTION	E	3	0	0	3	6	CEV5148	RECYCLE AND REUSE TECHNIQUES ON INDUSTRIAL WASTEWATERS	E	3	0	0	3	6
	CEV5247	BASICS OF ENVIRONMENTAL TECHNOLOGY	E	3	0	0	3	6	CEV5222	INDUSTRIAL WASTE MANAGEMENT	E	3	0	0	3	6
	CEV5249	DESIGN CRITERIA FOR WASTEWATER TREATMENT PLANTS	E	2	2	0	3	6	CEV5224	PRINCIPLES OF BIOLOGICAL TREATMENT	E	3	0	0	3	6
	CEV5251	STACK GAS MEASUREMENT AND ANALYSIS	E	2	0	2	3	6	CEV5226	WASTEWATER ENGINEERING	E	2	2	0	3	6
	CEV5253	MEASUREMENT AND MONITORING OF AMBIENT AIR	E	2	0	2	3	6	CEV5228	ION EXCHANGE AND ADSORPTION TECHNOLOGY IN WASTEWATER TREATMENT	E	2	2	0	3	6
	CEV5255	WETLAND SYSTEMS IN WASTEWATER TREATMENT	E	3	0	0	3	6	CEV5230	THE DESIGN OF LANDFILL AREAS	E	2	2	0	3	6
	CEV5257	ENVIRONMENTAL SAFETY FOR INDUSTRIES	E	3	0	0	3	6	CEV5232	AIR POLLUTION ENGINEERING	E	3	0	0	3	6
	CEV5263	RENEWABLE ENERGY AND ENVIRONMENT	E	3	0	0	3	6	CEV5234	ATMOSPHERIC TRANSPORT AND DEPOSITION	E	2	0	2	3	6
	CEV5265	CLEANER PRODUCTION PRINCIPLES	E	3	0	0	3	6	CEV5236	INSTRUMENTATION AND AUTOMATION OF WATER AND WASTEWATER TREATMENT PLANTS	E	2	2	0	3	6
	CEV5267	WATER AND WASTEWATER MICROBIOLOGY	E	3	0	0	3	6	CEV5238	BIOINDICATOR ORGANISMS IN DETERMINATION OF WATER QUALITY	E	3	0	0	3	6
	CEV5269	ANAEROBIC TREATMENT OF WASTES	E	3	0	0	3	6	CEV5242	DISINFECTION OF WATER AND WASTEWATER	E	3	0	0	3	6
	CEV5271	GREENHOUSE GASES CALCULATION METHODS AND CLIMATE CHANGE	E	2	2	0	3	6	CEV5244	MICROBIAL TECHNIQUES IN ENVIRONMENTAL ENGINEERING	E	3	0	0	3	6
	CEV5273	NANOTECHNOLOGY IN ENVIRONMENTAL ENGINEERING	E	3	0	0	3	6	CEV5246	ADVANCED ATMOSPHERIC CHEMISTRY	E	3	0	0	3	6
	CEV5275	INTEGRATED WASTE MANAGEMENT TECHNOLOGIES	E	3	0	0	3	6	CEV5248	ENVIRONMENTAL POLLUTION AND PUBLIC HEALTH	E	3	0	0	3	6
	CEV5277	WASTE DISPOSAL AND LEGAL FRAMEWORK	E	3	0	0	3	6	CEV5250	ON-SITE WASTEWATER TREATMENT	E	3	0	0	3	6
	CEV5279	FORMATION AND TREATMENT OF LANDFILL LEACHATE	E	3	0	0	3	6	CEV5306	ENERGY EFFICIENCY IN ENVIRONMENTAL POLLUTION AND CONTROL	E	3	0	0	3	6
	CEV5281	BIOLOGICAL TREATMENT OF INDUSTRIAL WASTEWATERS	E	3	0	0	3	6	CEV5308	ENVIRONMENTAL TOXICOLOGY	E	3	0	0	3	6
	CEV5303	COMPOSTING TECHNOLOGY	E	3	0	0	3	6	CEV5310	HYDROLOGY OF RIVER CATCHMENTS AND FLOOD-DROUGHT MODELLING	E	3	0	0	3	6
CEV5305	PRODUCTION OF BIOFUELS	E	3	0	0	3	6	CEV5312	ADVANCED PHYSICO-CHEMICAL TREATMENT PROCESSES	E	3	0	0	3	6	
CEV5307	SEDIMENT POLLUTION AND TRANSPORT	E	3	0	0	3	6	CEV5314	WASTEWATER SLUDGE AND SOIL ANALYSIS	E	2	0	2	3	6	
CEV5309	PRINCIPLES OF ENVIRONMENTAL POLLUTION	E	3	0	0	3	6	CEV5316	DEWATERING OF TREATMENT SLUDGES	E	3	0	0	3	6	
CEV5311	SOIL POLLUTION AND CONTROL	E	3	0	0	3	6	CEV5318	ORGANIC MICROPOLLUTANTS AND CONTROL	E	3	0	0	3	6	
E	III. TERM / ELECTIVE COURSES								IV. TERM / ELECTIVE COURSES							
	CEV6101	WATER CHEMISTRY	E	2	0	2	3	5	CEV6124	SURFACE WATER QUALITY MODELLING	E	2	2	0	3	5
	CEV6123	LAKE WATER QUALITY MODELLING	E	2	2	0	3	5	CEV6208	DISPOSAL TECHNIQUES OF DOMESTIC AND INDUSTRIAL	E	2	2	0	3	5

									SLUDGE							
CEV6221	HAZARDOUS WASTES	E	2	2	0	3	5		CEV6224	TREATMENT AND DISPOSAL OF INDUSTRIAL WASTES	E	2	2	0	3	5
CEV6225	STABILIZATION AND SOLIDIFICATION OF HAZARDOUS WASTES	E	3	0	0	3	5		CEV6242	AIR POLLUTION METEOROLOGY	E	3	0	0	3	5
CEV6227	COMPUTER SUPPORTED MODEL APPROACHES IN ACTIVATED SLUDGE SYSTEMS	E	2	2	0	3	5		CEV6244	USE OF RESPIROMETRIC METHOD IN DESIGN AND OPERATION OF ACTIVATED SLUDGE PROCESS	E	2	0	2	3	5
CEV6229	BIOLOGICAL TREATMENT OF TOXIC ORGANIC COMPOUNDS	E	3	0	0	3	5		CEV6246	OPERATION OF TREATMENT PLANTS	E	2	0	2	3	5
CEV6231	ADVANCED TREATMENT TECHNIQUES	E	2	2	0	3	5		CEV6248	BIOKINETICS TECHNIQUES OF WASTEWATER TREATMENT PLANTS	E	3	0	0	3	5
CEV6233	LAND APPLICATION OF WASTEWATER SLUDGES	E	3	0	0	3	5		CEV6250	WATER AND WASTEWATER TREATMENT WITH ADVANCED OXIDATION AND MEMBRANE TECHNOLOGIES	E	3	0	0	3	5
CEV6303	BIOMASS ENERGY TECHNOLOGIES	E	3	0	0	3	5		CEV6252	WASTE AND WASTEWATER TREATMENT FOR BIOTECHNOLOGY PROCESSES	E	3	0	0	3	5
CEV6305	HAZARDOUS AIR POLLUTANTS AND RISK ANALYSIS	E	3	0	0	3	5		CEV6254	MODELLING OF ACTIVATED SLUDGE SYSTEMS	E	3	0	0	3	5



**ULUDAĞ UNIVERSITY
INSTITUTE OF SCIENCE
2017-2018 ACADEMIC YEAR COURSE PLAN**

DEPARTMENT OF		ENVIRONMENTAL ENGINEERING																
DEPARTMENT / PROGRAM		/ Master's Degree Program (Without Thesis)																
COURSE STAGE	I. TERM / FALL								II. TERM / SPRING									
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS		
	CEV5301	ENVIRONMENTAL MOVEMENT OF CHEMICALS	C	3	0	0	3	6	CEV5302	STATISTICS FOR ENVIRONMENTAL ENGINEERS	C	3	0	0	3	6		
									CEV5303	ADVANCED ENVIRONMENTAL ENGINEERING CHEMISTRY I	C	3	0	0	3	6		
		ELECTIVE COURSE	E				3	6		ELECTIVE COURSE	E				3	6		
		ELECTIVE COURSE	E				3	6		ELECTIVE COURSE	E				3	6		
		ELECTIVE COURSE	E				3	6		ELECTIVE COURSE	E				3	6		
		ELECTIVE COURSE	E				3	6										
	Total Credits							15	30	Total Credits							15	30
	STAGE THESIS	III. TERM / FALL								IV. TERM / SPRING (*)								
CEV5001		PROJECT COURSE	C	0	2	0	0	24										
		ELECTIVE COURSE	E				3	6										
Total Credits							3	30	Total Credits									
TOTAL CREDITS: 33 - TOTAL ECTS: 90																		

Not: The student is expected to take a total of credited (.....) elective courses every academic term.
The student have the option of choosing one selective course from another department with the endorsement of the supervisor.

(*) Students who couldn't complete the program in 3. term or who began the program in spring term, may take CEV 5000 project course and 2. term elective courses in 4. term

ULUDAĞ UNIVERSITY INSTITUTE OF SCIENCE 2017-2018 ACADEMIC YEAR COURSE PLAN																		
DEPARTMENT / PROGRAM		ENVIRONMENTAL ENGINEERING / Master's Degree Program (Without Thesis)																
COURSE STAGE	I.III TERM / FALL								II. TERM / SPRING									
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS		
	CEV5121	ENVIRONMENTAL MANAGEMENT	E	3	0	0	3	6	CEV5102	ENVIRONMENTAL INSTRUMENTAL ANALYSIS	E	2	0	2	3	6		
	CEV5243	INDUSTRIAL AIR POLLUTION	E	3	0	0	3	6	CEV5122	WATER QUALITY MANAGEMENT	E	2	2	0	3	6		
	CEV5247	BASICS OF ENVIRONMENTAL TECHNOLOGY	E	3	0	0	3	6	CEV5148	RECYCLE AND REUSE TECHNIQUES ON INDUSTRIAL WASTEWATERS	E	3	0	0	3	6		
	CEV5249	DESIGN CRITERIA FOR WASTEWATER TREATMENT PLANTS	E	2	2	0	3	6	CEV5222	INDUSTRIAL WASTE MANAGEMENT	E	3	0	0	3	6		
	CEV5251	STACK GAS MEASUREMENT AND ANALYSIS	E	2	0	2	3	6	CEV5226	WASTEWATER ENGINEERING	E	2	2	0	3	6		
	CEV5253	MEASUREMENT AND MONITORING OF AMBIENT AIR	E	2	0	2	3	6	CEV5228	ION EXCHANGE AND ADSORPTION TECHNOLOGY IN WASTEWATER TREATMENT	E	2	2	0	3	6		
	CEV5255	WETLAND SYSTEMS IN WASTEWATER TREATMENT	E	3	0	0	3	6	CEV5230	THE DESIGN OF LANDFILL AREAS	E	2	2	0	3	6		
	CEV5257	ENVIRONMENTAL SAFETY FOR INDUSTRIES	E	3	0	0	3	6	CEV5232	AIR POLLUTION ENGINEERING	E	3	0	0	3	6		
	CEV5259	BASIC PROCESSES IN ENVIRONMENTAL ENGINEERING I	E	3	0	0	3	6	CEV5234	ATMOSPHERIC TRANSPORT AND DEPOSITION	E	2	0	2	3	6		
	CEV5261	ENVIRONMENTAL BIOTECHNOLOGY	E	3	0	0	3	6	CEV5236	INSTRUMENTATION AND AUTOMATION OF WATER AND WASTEWATER TREATMENT PLANTS	E	2	2	0	3	6		
	CEV5263	RENEWABLE ENERGY AND ENVIRONMENT	E	3	0	0	3	6	CEV5238	BIOINDICATOR ORGANISMS IN DETERMINATION OF WATER QUALITY	E	3	0	0	3	6		
	CEV5265	CLEANER PRODUCTION PRINCIPLES	E	3	0	0	3	6	CEV5240	BASIC PROCESSES IN ENVIRONMENTAL ENGINEERING II	E	3	0	0	3	6		
	CEV5269	ANAEROBIC TREATMENT OF WASTES	E	3	0	0	3	6	CEV5244	MICROBIAL TECHNIQUES IN ENVIRONMENTAL ENGINEERING	E	3	0	0	3	6		
	CEV5271	GREENHOUSE GASES CALCULATION METHODS AND CLIMATE CHANGE	E	2	2	0	3	6	CEV5246	ADVANCED ATMOSPHERIC CHEMISTRY	E	3	0	0	3	6		
	CEV5273	NANOTECHNOLOGY IN ENVIRONMENTAL ENGINEERING	E	3	0	0	3	6	CEV5248	ENVIRONMENTAL POLLUTION AND PUBLIC HEALTH	E	3	0	0	3	6		
	CEV5275	INTEGRATED WASTE MANAGEMENT TECHNOLOGIES	E	3	0	0	3	6	CEV5250	ON-SITE WASTEWATER TREATMENT	E	3	0	0	3	6		
	CEV5277	WASTE DISPOSAL AND LEGAL FRAMEWORK	E	3	0	0	3	6	CEV5306	ENERGY EFFICIENCY IN ENVIRONMENTAL POLLUTION AND CONTROL	E	3	0	0	3	6		
	CEV5279	FORMATION AND TREATMENT OF LANDFILL LEACHATE	E	3	0	0	3	6	CEV5308	ENVIRONMENTAL TOXICOLOGY	E	3	0	0	3	6		
	CEV5281	BIOLOGICAL TREATMENT OF INDUSTRIAL WASTEWATERS	E	3	0	0	3	6	CEV5310	HYDROLOGY OF RIVER CATCHMENTS AND FLOOD-DROUGHT MODELLING	E	3	0	0	3	6		
	CEV5303	COMPOSTING TECHNOLOGY	E	3	0	0	3	6	CEV5312	ADVANCED PHYSICO-CHEMICAL TREATMENT PROCESSES	E	3	0	0	3	6		
	CEV5305	PRODUCTION OF BIOFUELS	E	3	0	0	3	6	CEV5314	WASTEWATER SLUDGE AND SOIL ANALYSIS	E	2	0	2	3	6		
	CEV5307	SEDIMENT POLLUTION AND TRANSPORT	E	3	0	0	3	6	CEV5316	DEWATERING OF TREATMENT SLUDGES	E	3	0	0	3	6		
	CEV5309	PRINCIPLES OF ENVIRONMENTAL POLLUTION	E	3	0	0	3	6	CEV5318	ORGANIC MICROPOLLUTANTS AND CONTROL	E	3	0	0	3	6		
	CEV5311	SOIL POLLUTION AND CONTROL	E	3	0	0	3	6										
	Total Credits							12^{1/3}	24^{1/6}	Total Credits							9	18
TOTAL CREDITS: 33 - TOTAL ECTS: 90																		

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