



**ULUDAĞ UNIVERSITY
INSTITUTE OF SCIENCE
2016-2017 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	5
									CEV5302	STATISTICS FOR ENVIRONMENTAL ENGINEERS	C	3	0	0	3	6
									CEV5304	ADVANCED ENVIRONMENTAL ENGINEERING CHEMISTRY I	C	3	0	0	3	7
	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		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							9	30
STAGE THESIS	III. TERM / FALL								IV. TERM / SPRING									
	CEV5183	ADVANCED TOPICS IN MS THESIS III	C	4	0	0	0	5	CEV5184	ADVANCED TOPICS IN MS THESIS IV	C	4	0	0	0	5		
	CEV5193	MA THESIS III	C	0	1	0	0	25	CEV5194	MA THESIS IV	C	1	0	0	0	25		
	Total Credits							0	30	Total Credits							0	30
TOTAL CREDITS: 21 - 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.



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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.

(*)Studentswhocouldn'tcompletethe program in 3. termorwhobeganthe program in springterm, maytake CEV 5000 projectcourseand 2. termelectivecourses in 4. term

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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							12¹/₃	24¹/₆	Total Credits							9	18
TOTAL CREDITS: 33 - TOTAL ECTS: 90																		

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