

**OMU ENVIRONMENTAL ENGINEERING DEPARTMENT
UNDERGRADUATE EDUCATION COURSE PLAN**

CLASS	Semester 1						Semester 2								
	Code	Course Unit Title	T	P	L	K	ECTS	Code	Course Unit Title	T	P	L	K	ECTS	
1. CLASS	CMB109	Introduction To Environmental Engineering	2	0	0	2	3	CMB112	Technical Drawing and Computer Applications	2	2	0	3	6	
	CMB113	Environmental Ecology	2	0	0	2	3	CMB116	Topography	2	2	0	3	5	
	CMB115	Engineering Hydrology	2	0	0	2	3	CMB102	Statistics	2	0	0	2	4	
	TBMK1M11	General Chemistry - I	3	0	2	4	6	TBFZ114	Physics - II	3	0	2	4	6	
	TBFZ113	Physics - I	3	0	2	4	6	TBMAT11	Mathematics - II	2	2	0	3	5	
	TBMAT113	Mathematics - I	2	2	0	3	5	ATI 102	Principles of Atatürk and History of Revolution II	2	0	0	2	2	
	ATI101	Principles of Atatürk and History of Revolution I	2	0	0	2	2	YD114	Foreign Language II	2	0	0	2	2	
	YD113	Foreign Language I	1	2	0	2	2		English						
		English							German						
		German							French						
	French														
	TOTAL		0			21	30	TOTAL				19	30		
2. CLASS	Semester 3						Semester 4								
	Code	Course Unit Title	T	P	L	K	ECTS	Code	Course Unit Title	T	P	L	K	ECTS	
	CMB201	Fluid Mechanics	3	0	0	3	4	CMB202	Materials Science	2	0	0	2	3	
	CMB237	Environmental Chemistry - I	3	0	2	4	6	CMB204	Hydraulics	3	0	0	3	4	
	CMB209	Engineering Mathematics	4	0	0	4	5	CMB238	Environmental Chemistry - II	3	0	2	4	6	
	CMB213	Statistical strength	4	0	0	4	5	CMB212	Environmental Microbiology	2	0	2	3	4	
	TDI101	Turkish Language I	2	0	0	2	2	CMB 216	Ground Mechanics	2	0	0	2	3	
	İSG 101	Occupational Health and Safety I	2	0	0	2	2	TDI101	Turkish Language II	2	0	0	2	2	
	YD123	Advanced English I	2	2	0	3	4	İSG 101	Occupational Health and Safety II	2	0	0	2	2	
	SSD 1	Social Elective Course 1	2	0	0	2	2	YD124	Advanced English II	2	2	0	3	4	
							CMB	Technical Elective Course - II	2	0	0	2	2		
	TOTAL					24	30	TOTAL				23	30		
	SOCIAL ELECTIVE COURSE 1						TECHNICAL ELECTIVE COURSE 2								
								CMB224	Environmental Health	2	0	0	2	2	
								CMB226	Renewable Energy Sources	2	0	0	2	2	
								CMB230	Noise Control	2	0	0	2	2	
								CMB236	Industrial Ecology	2	0	0	2	2	
								CMB240	Water Quality	2	0	0	2	2	
								CMB242	Water Holding Structures	2	0	0	2	2	
								CMB244	Green Design and Engineering	2	0	0	2	2	
								CMB246	Environmental Toxicology	2	0	0	2	2	
								CMB248	Radioactive Pollution	2	0	0	2	2	
3. CLASS	Semester 5						Semester 6								
	Code	Course Unit Title	T	P	L	K	ECTS	Code	Course Unit Title	T	P	L	K	ECTS	
	CMB341	Drinking Water Treatment	3	2	0	4	6	CMB310	Marine Pollution and Control	3	0	0	3	4	
	CMB343	Water Supply and Wastewater Disposal - I	3	2	0	4	6	CMB342	Waste water pollution	3	2	0	4	6	
	CMB345	Modeling in Environmental Engineering	2	2	0	3	5	CMB344	Water Supply and Wastewater Disposal - II	3	2	0	4	6	
	CMB347	Unit operations in Environmental Engineering - I	3	0	2	4	6	CMB346	Unit Operations in Environmental Engineering - II	3	0	2	4	6	
	CMB315	Solid Waste Management	3	0	0	3	4	CMB	Technical Elective Course - IV	2	0	0	2	3	
	CMB	Technical Elective Course - III	2	0	0	2	3	MUH302	Entrepreneurship and Innovation	3	0	0	3	5	
		TOTAL					20	30	TOTAL				20	30	
		TECHNICAL ELECTIVE COURSE 3						TECHNICAL ELECTIVE COURSE 4							
	CMB317	Industrial Waste Management (TE 3)	2	0	0	2	3	CMB316	Computer Aided Engineering Design (TE 4)	2	0	0	2	3	
	CMB319	Watershed Management (TE 3)	2	0	0	2	3	CMB318	Underground Water Pollution (TE 4)	2	0	0	2	3	
	CMB321	City Planning and Environmental Problems (TE 3)	2	0	0	2	3	CMB320	Clean Production Techniques (TE 4)	2	0	0	2	3	
	CMB323	Physicochemical Treatment (TE 3)	2	0	0	2	3	CMB322	Environmental Management Systems (TE 4)	2	0	0	2	3	
	CMB325	Biogas Production Technology (TE 3)	2	0	0	2	3	CMB324	Building site Management (TE 4)	2	0	0	2	3	
	CMB327	Contaminant Transport (TE 3)	2	0	0	2	3	CMB326	Urban Drainage Systems (TE 4)	2	0	0	2	3	
	CMB329	Environmental Nanotechnology (TE 3)	2	0	0	2	3	CMB328	Waste Minimization Techniques (TE 4)	2	0	0	2	3	
	CMB331	Climate Science and Atmosphere Chemistry (TE 3)	2	0	0	2	3	CMB330	Natural Treatment Methods (TE 4)	2	0	0	2	3	
	CMB335	Life Cycle and Monitoring (TE 3)	2	0	0	2	3	CMB332	Aerobic Processes (TE 4)	2	0	0	2	3	
	CMB337	Technical English	2	0	0	2	3								
4. CLASS	Semester 7						Semester 8								
	Code	Course Unit Title	T	P	L	K	ECTS	Code	Course Unit Title	T	P	L	K	ECTS	
	CMB437	Air Pollution and Control	4	0	0	4	6	CMB402	Engineering Economics	2	0	0	2	4	
	CMB403	Soil Pollution and Soil Pollution Control	2	0	0	2	4	CMB406	Environmental Impact Assessment (EIA)	2	0	0	2	4	
	CMB443	Environmental Law and Professional Ethics	2	0	0	2	4	CMB474	Graduation Project**	1	2	0	2	6	
	CMB445	Profession Elective Research Techniques*	1	2	0	2	6	CMB444	Hazardous Waste Management	2	0	0	2	4	
		Technical Elective Course V	3	0	0	3	5		Technical Elective Course VII	3	0	0	3	5	
		Technical Elective Course VI	3	0	0	3	5		Technical Elective Course VIII	3	0	0	3	5	
	CMB501	Industry Application ****	0	16	0	8	16	SSD2	Social Elective Course 2	2	0	0	2	2	
		TOTAL					16	30	TOTAL				16	30	
	TECHNICAL ELECTIVE COURSE 5/6						TECHNICAL ELECTIVE COURSE 7/8								
	CMB451	Advanced Treatment (TE 5/6)	3	0	0	3	5	CMB450	Anaerobic Treatment (TE 7/8)	3	0	0	3	5	
	CMB453	Industrial Wastewater Treatment (TE 5/6)	3	0	0	3	5	CMB452	Treatment Plant Operation and Maintenance (TE 7/8)	3	0	0	3	5	
	CMB455	Treatment Sludge Disposal (TE 5/6)	3	0	0	3	5	CMB454	Deep Marine Discharge (TE 7/8)	3	0	0	3	5	
	CMB457	Fuels and Combustion (TE 5/6)	3	0	0	3	5	CMB456	Air Pollution Modelling (TE 7/8)	3	0	0	3	5	
	CMB459	Recycling and Composting (TE 5/6)	3	0	0	3	5	CMB458	Indoor Air Pollution (TE 7/8)	3	0	0	3	5	
	CMB461	Air Pollution and Measurement Methods (TE 5/6)	3	0	0	3	5	CMB460	Medical Waste Management (TE 7/8)	3	0	0	3	5	
	CMB463	Landfill Design and Operation (TE 5/6)	3	0	0	3	5	CMB462	Disinfection Techniques (TE 7/8)	3	0	0	3	5	
	CMB465	Treatment Plant Hydraulics (TE 5/6)	3	0	0	3	5	CMB464	Leachate Control (TE 7/8)	3	0	0	3	5	
	CMB467	Pollution Prevention and Control (TE 5/6)	3	0	0	3	5	CMB466	Package Treatment Facilities (TE 7/8)	3	0	0	3	5	
	CMB469	Pumping Stations (TE 5/6)	3	0	0	3	5	CMB468	Environmental Risk Management (TE 7/8)	3	0	0	3	5	
	CMB471	Membrane Processes and Application Areas (TE 5/6)	3	0	0	3	5	CMB470	Biological Processes (TE 7/8)	3	0	0	3	5	
								CMB472	Remediation of Polluted Environments (TE 7/8)	3	0	0	3	5	
	PROFESSION ELECTIVE INVESTIGATIVE TECHNIQS						SOCIAL ELECTIVE COURSE 2								
	CMB445	Environmental Technology	1	2	0	2	6								
	CMB447	Environmental Sciences	1	2	0	2	6								
	(*) This course will be open for the 8th and higher term students in SPRING TERM. (**) This course is 9th and higher term students, will be able to open the FALL term. (***) Students who are successful in PPP will be exempted from all courses of the 8th semester. (****) Students taking the Industrial Practice course will not take Profession Elective Research Techniques, Technical electives 5 and 6.														
	General total credits:			159				Total ECTS:			240				
	Total technical elective course credits:			24				Total Technical Elective Course ECTS:			38				
	Total credit except for 5/i courses:			143				Uygulamalı Derşlerin AKTSye oran (%)			50.41				