

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM									
Course Code an DISPERSION IN	38 DIFFUSION AND RONMENT		Department of : CIVIL ENGINEERING / MASTER PROGRAMME						
Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective		
Atumn/Spring	3	0	3	3	5	Turkish	Optional		
Prerequ	isite (s)								
Instructor		Asst. Prof. Dr.Hilal ARSLANOĞLU IŞIK hilalarslanoglu@munzur.edu.tr Web:							
Course Assistant		Mail : Web :							
Groups / Classes		Postgraduate (Master's Degree)							
Course		This in the environment soluble substances Convection And mixture processes chemical And physically aspect environmental in the environment concentration, chemical reaction, diffusion, transport And spread processes And effects of comprehend, pollutant article And Convection in the process important processes introduction, variable beginning And border conditions under basis Convection equations of application, natural in environments Convection your problems solution for analysis And synthesis of their vehicles development, Basis concepts, natural in the environment article transport And diffusion equation of mathematical solutions, turbulent in the environment diffusion, turbulent in the flow continually And Intermittent sources, longitudinal dispersion, dispersion coefficients determination of tidal effect under dispersion mechanisms of to be taught.							
Course Learning Outs and Proficiencies		 Diffusion And dispersion processes knows , One and two dimensional This quality your problems solves , Wastewater discharge of environmental effects evaluates . 							
Course Basic a Cont	 Lesson Notes Orhan USLU, 1997. Environmental Dispersion, Nine September University Faculty of Engineering Publications, Izmir THOMANN and MUELLER, 1987. Principles of surface water quality modeling and control, Schnoor, J.L., Environmental Modeling: Fate and Transport of Pollutants in Water, Air, and Soil, Wiley-Interscience, 1996. 								
Methods of G	ive a Lecture	Face to the	face						



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Assessment Criteria			If Available, to Sign (x)	General Average Percentage (%) Rate				
		Midterm Exam	X	50				
		1. Quiz						
		2. Quiz						
		3. Quiz						
		4. Quiz						
		Oral Examination						
		Practice Examination						
		(Laboratory, Project etc.)	V	70				
		Final Exam	X	50				
Semester Course Plan								
Week		Subjects						
1	Entrance And basis concepts							
2	Molecular diffusion And Brownian movement							
3	One dimensional in space diffusion equation							
4	Two dimensional in space diffusion equation							
5	Turbulent in the environment diffusion							
6	Advection diffusion equation, initial And border conditions							
7	Sudden point, linear And areal resources							
8	Midterm Exam							
9	Continually pointwise, linear And areal resources							
10	Dispersion (longitudinal, vertical And lateral dispersion coefficients)							
11	Atmospheric Convection processes							
12	Tidal effect under dispersion							
13	Turbulent jets And clouds							
14	Stochastic processes							