Course Title-Course Code: CE 514 DIFUSSION					Name of the Programme:CIVIL ENGINEERING				
Semester	Teaching Metho				ods			Credits	
	Lecture	Recite	Lab.	Field Study	нw	Other	Total	Credit	ECTS Credit
1-2	42	0	0	0	0	146	188	3	7.5
Language	Turkish								
Compulsory / Elective	Elective								
Prerequisites	-								
Course Contents	Euler diffusion equations, longitudinal and transverse diffusion in turbulent flows, diffusion of pollutants in river and canal flows, mixing and diffusion in lake, bays and estuaries, diffusion of thermal jet flows								
Course Objectives	Theoretical knowledge of diffusion in water flows								
Learning Outcomes and Competences	Determination of distibution of temperature, salinity or various pollution parameters in inland or coastal water and finding practical solution to environmental water pollution problems								
/or References	 2- Martin, J.L. nad McCutcheon, S.C., 1999, Hydrodynamics and Transport for Water Quality Modelling", CRC Press, 794 p. 3-Bedford, K.W.,1994, "Diffusion, Dispersion and Sub-grid Parameterization", Coastal Estuarial and Harbour Engineers Reference Book, edited by M.B. Abbott and W.A. Price, E&FN Spon Ltd. Chapter 5, pp: 61-82 4-Smith, R., 1992, "Physics of Dispersion in Coastal and Estuarine Pollution: Methods and Solutions", Scottish Hydraulics Study Group, Glasgow, UK. 								
Assessment Criteria							Ij a	f any,mar s (X)	k Percent (%)
	Midterm ExamsX30								
	Quizzes Homeworks								
	Projects Image: Constraint of the state of the sta								
	Final Ex	am						X	70
Instructors	Prof.Dr. Nevzat YILDIRIM								