

Course Title-Course Code: CE 552 FRACTURE OF CONCRETE							Name of the Programme:CIVIL ENGINEERING		
Semester	Teaching Methods							Credits	
	Lecture	Recite	Lab.	Field Study	H W	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	Why fracture mechanics. Essentials of linear elastic fracture mechanics. Determine the parameters of linear elastic fracture mechanics. Determination of the fracture parameters from size effect. Brittleness of structures. Design of structures according to size effect.								
Course Objectives	The courses is to give essentials of linear elastic fracture mechanics and size effect.								
Learning Outcomes and Competences	Understanding and applying of linear elastic fracture mechanics and size effect to concrete structures.								
Textbook and /or References	1-Bazant"Fracture and Size Effect" CRC press,1998 2-Bazant,Cedolin"Stability of Structures" 1991 3-Karihaloo"Fracture mechanics and Structural Concrete" Longman Sci,1995 4-Shah,Swartz,Ouyang"Fracture Mechanics of Concrete"1995 5-JG van Mier"Fracture Process of Concrete"1997 6-Jirasek, Bazant, "Inelastic Analysis of Structures' Wiley, 2002								
Assessment Criteria								<i>If any,mark as (X)</i>	Percent (%)
	<i>Midterm Exams</i>							X	50
	Quizzes								-
	Homeworks								
	Projects								-
	Term Paper								-
	Laboratory Work								-
	Other								-
	Final Exam							X	50
Instructors	Prof. Dr. Siddik ŞENER								