Course Title-Co BRIDGES 1	le-Course Code: CE 573 CONCRETE Name of the Prog							gramme:CIVIL ENGINEERING		
Semester	Teaching Metho				ods Credits					
	Lecture	Recite	Lab.	Field Study	нw	Other	Total	Credit	ECTS Credit	
1-2	42	0	0	0	42	146	188	3	7.5	
Language	Turkish									
Compulsory / Elective	Elective									
Prerequisites	-									
Course Contents	Historical background and basic definitions; choise of location and bridge layaout; Aesthetics in Bridge Design; foundation conditions; crossing the rivers; comparison of different types of bridges; Arch Bridges; reinforced concrete and prestressed concrete bridges; box girder bridges; cable stayed and suspention bridges; examples from some applications; Loads; lateral and longitudinal forces on superstructure and substructures; AASHTO Specifications and loading applications; Structural members of bridge; Reinforced and prestressed concrete bridge design; design of superstructure; seismic design considerations; design of bearings; design of substructure; piers and walls; foundations; numerical examples.									
Course Objectives	Upon completing this class students are expected to have the basic skills necessary to perform preliminary design of simple highway bridges satisfaying AASHTO LRFD code requirements.									
Learning Outcomes and Competences	Ganing the skill of handling and solving the prestressed and reinforced concrete highway bridges.									
Textbook and /or References	 1 Raina V.K. "Concrete Bridge Practice, Analaysis, design and economics, Mc.Graw Hill,1991 2 Demetrios, E., Tonias, P. E. "Bridge Engineering", Mc. Graw Hill, New York, 1995, 470 p 3 Standard Spesifications for Highway Bridges, AASHTO, 1998 4 Celasun H., "Betonarme Köprüler", Çağlayan Kitabevi, 1980 5 Ekiz, İ., "Köprü Problemleri, Çağlayan kitabevi, 1976 6 Yol Köprüleri için Teknik Şartname, TCK yayını, No.207,1973 7. BS 5400 									
Assessment Criteria								If any,mar as (X)	k Percent (%)	
	Midterm Exams						Х	25		
	Quizzes							-		
	Homeworks								-	
	Projects								-	
	Term Paper							Х	5	
	Laboratory Work -								-	
	Other							-		
	Final Exam						Х	70		
Instructors	Asst. Prof. Dr. Meral BEGİMGİL									