Course Title ANALYS	Course Title-Course Code: <u>CE 576 STATISTICAL</u> ANALYSIS IN COASTAL ENGINEERING					Name of the Programme:CIVIL ENGINEERING				
Semester	Teaching Metho				ods			С	Credits	
	Lecture	Recite	Lab.	Field Study	нw	Other	Total	Credit	ECTS Credit	
1-2	42	0	0	0	56	90	188	3	7.5	
Language	Turkish									
Compulsory / Elective	Optional									
Prerequisites	-									
Course Contents	Description of Random Sea Waves, Wave Data: Observation and Measurements, Wave Modelling and Wave Prediction, Wave Climate Statistics, Engineering Applications, Wave Transformations, Wave Forces, Wave Spectrum, Spectral Techniques, Autocorrelation, Fourier Analysis and Transformations, Markov Chains, Design of Sea Structures.									
Course Objectives	Providing the civil and coastal engineers with the procedures and methods necessary to derive design wave characteristics required for coastal and civil engineering practice.									
Learning Outcomes and Competences	Application ability of statistical analysis used in coastal engineering design									
/or References	 Goda, Yoshimi "Random Seas and Design of Maritime Structures", University of Tokyo Press, Tokyo, Japan,1985. Word Meteorological Organization, "A Guide to Wave Analysis and Forecasting", WMO Report No. 702, Geneva, Switzerland, 1988. Newland, D.E., "An Introduction to Random Vibrations and Spectral Analysis", Longman Scientific and Technical, London, 1984. 									
Assessment Criteria								If any,mar as (X)	k Percent (%)	
	Midterm Exams						Х	20-20		
	Quizzes								-	
Homeworks							Х	5		
Projects								-		
Term Paper							Х	5		
	ory Work							-		
	Other								-	
	Final Ex	am						Х	50	
Instructors	Associate Prof. Dr. Can E. BALAS									