

Course Title-Course Code: CE 584 COASTAL HYDRAULICS							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	56	90	188	3	7.5
Language	Turkish								
Compulsory / Elective	Optional								
Prerequisites	-								
Course Contents	Introduction to Coastal Engineering and Fields of The Coastal Engineering Applications. Principles and Concepts of the Coastal Hydraulics. Linear Wave Theory. Classification of Water Waves. Wave Processes. Wave Energy and Pressure. Wave Statistics. Irregular Waves and Prediction of the Wind Waves. Interaction of Waves and Structures. Design of the Breakwaters								
Course Objectives	Introduce the fundamental principles of coastal hydraulics and coastal engineering. Provide the basic knowledge essential for civil engineers whose are planning to have a role in development, protection and conservation of coastal environments.								
Learning Outcomes and Competences	Application ability of basic coastal engineering knowledge in civil engineering for the design of coastal structures, planning and protection of coastal environments.								
Textbook and /or References	R. G. Dean, A. R. Dalrymple, 1984, Water Wave Mechanics for Engineers and Scientists, Advanced Series on Ocean Engineering, World Scientific International Publishing, ISBN: 981-02-0420-5. Shore Protection Manual, 1984, U. A. Army Coastal Engineering Research Center, Fourth Edition, Washington, D. C., USA. Y. Goda, 1985, Random Seas and Design of Maritime Structures, University of Tokyo Press, Japan. Y. Yüksel, 1998, Kıyı Mühendisliği, İnşaat Mühendisleri Odası, Ankara								
Assessment Criteria								<i>If any, mark as (X)</i>	Percent (%)
	Midterm Exams							X	20-20
	Quizzes								-
	Homeworks							X	10
	Projects								-
	Term Paper								-
	Laboratory Work							X	5
	Other								-
	Final Exam							X	45
Instructors	Associate Prof. Dr. Can E. BALAS								