

COASTAL AND PORT ENGINEERING

1	Course Title:	COASTAL AND PORT ENGINEERING	
2	Course Code:	INS4062	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	4	
6	Semester:	8	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	1.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç.Dr. Adem AKPINAR	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	ademakpinar@uludag.edu.tr 0 224 2942625	
17	Website:	http://insaat.uludag.edu.tr/	
18	Objective of the Course:	To give information about coastal and harbour structures	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	describe and summarise the basic concepts of wave mechanics
		2	describe and apply basic concepts of ports, breakwaters and various kinds of coastal structures.
		3	apply various techniques of coastal protection, including artificial beach nourishment.
		4	conduct coastal engineering models.
		5	
		6	
		7	
		8	
		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Introduction		
2	Onshore and Offshore Civil Engineering		
3	Theories of Waves , Energy of Waves	Problem solving	
4	The Classification of Waves, Basic Equations of Wave Motion		
5	Determination of design wave characteristics	Problem solving	

6	Structures of OnshoreandOffshore	
7	Breakwaters, Jetties, ShoreProtectionStructures	Problem solving
8	Importance and classification of ports	
9	Principles of coastal sediment transport	
10	Coastal sediment properties	
11	Longshore Sediment Transport	Problem solving
12	Breakwater design	
13	Breakwater design	Problem solving
14	Application	Problem solving

22	Textbooks, References and/or Other Materials:	Yüksel, Y., Çevik, E., Kıyı Mühendisliği, Beta Yayınları Yüksel, Y., Çevik, E., Liman Mühendisliği, Arıkan Yayınları Ergin, A., Coastal Engineering, METU Yayınları Yüksel, Y., Dalgakıran tasarımı, Beta yayınları
----	---	--

23	Assesment	
----	-----------	--

TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT
Midterm Exam	1	30.00
Quiz	0	0.00
Home work-project	8	10.00
Final Exam	1	60.00
Total	10	100.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Contribution of Final Exam to Success Grade	60.00	2.00	28.00
Practicals/Labs	14	1.00	14.00
Measurement and Evaluation Techniques Used in the	14	2.00	28.00
Homeworks	1	20.00	20.00

24	ECTS / WORK LOAD TABLE		
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	2.00	2.00
Total Work Load			92.00
Total work load/ 30 hr			3.07
ECTS Credit of the Course			3.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High
----------------------------	-------------------	--------------	-----------------	---------------	--------------------