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:	Prof. Dr. MURAT KANKAL
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:	The course forms the basis of all engineering design processes related to port and coastal structures.
20	Learning Outcomes:	

		1	Will be able to understand the basic elements of structures related to civil engineering to be built in coastal and harbors
		2	To be able to gain knowledge on planning and design of basic coastal structures and ports
		3	Understand and describe the properties of waves, which are the most important environmental factor in the design of coastal structures
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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	TheClassification 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	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Success Grade		
Total		100.00

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	1.00	14.00
Self study and preperation	14	2.00	28.00
Homeworks	1	20.00	20.00
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	0	0	0	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

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