DESIGN OF PORTS AND COASTAL STRUCTURES

1	Course Title:	DESIGN OF PORTS AND COASTAL STRUCTURES
2	Course Code:	INS5064
3	Type of Course:	Optional
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
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 0224 2942625
17	Website:	
18	Objective of the Course:	To present some detail information about planning, design, modeling, and management of ports and coastal structures
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Be able to describe and apply basic concepts of ports, breakwaters and various kinds of coastal structures
	2	Be able to apply various techniques of coastal protection including artificial beach nourishment
	3	Be able to conduct coastal engineering models
	4	Be able to employ coastal management techniques
	5	Be able to design the coastal structures
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Sea waves, wave statistics, wave spectrum, wave transformation in the nearshore	
2	Ports and coastal structures	
3	Ports and coastal structures	
4	Port planning and methods	

5	Selecting of port location, design and planning of water areas in ports; berth, navigation cannals, basin of port	
6	Selecting of port location, design and planning of water areas in ports; berth, navigation cannals, basin of port	
7	Selecting of port location, design and planning of water areas in ports; berth, navigation cannals, basin of port	
8	Elements of port	
9	Breakwaters	
10	Breakwaters	
11	Harbor oscillations	
12	Seawalls	
13	Seawalls	
14	Groins, offshore facilities ve jeties	

22	Textbooks, References and/or Other Materials:	Yalçın Yüksel, Dalgakıran Tasarımı, Beta Yayınevi. Kıyı Yapıları ve Limanlar planlama ve tasarım teknik esasları. RM Sorensen, Basic Coastal engineering, Springer. T Sawaragi, Coastal Engineering: Waves, Beaches, Wave-structure interactions.
23	Assesment	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	8.00	112.00
Homeworks	1	15.00	15.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	2.00	2.00
Others	0	0.00	0.00
Final Exam	1	2.00	2.00
Total Work Load			175.00
Total work load/ 30 hr			5.77
ECTS Credit of the Course			6.00

Quiz 0 0.00
Contribution of Term (Year) Learning Activities to Success Grade 40.00
Contribution of Final Exam to Success Grade 60.00
Measurement and Evaluation Techniques Used in the C

24 ECTS / WORK LOAD TABLE

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK5	0	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**