COASTAL ENGINEERING

1	Course Title:	COASTAL ENGINEERING
2	Course Code:	INS4053
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	7
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	1.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Adem AKPINAR
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	ademakpinar@uludag.edu.tr
17	Website:	
18	Objective of the Course:	It is aimed to teach students some detail knowledge about wave mechanics, wave transformation, the formation of wind waves and wind hind casting
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	To be able to identifies and classifies the waves
	2	To be able to describes and summarizes the basic concepts related to wave transformation
	3	To be able to conducts wave forecasting by using wind data and understands wave statistics and wave spectrum
	4	To be able to describes and applies basic concepts of coastal sediment transport (shoreline changes, onshore-offshore and longshore transport)
	5	To be able to describes the basic concepts of coastal management
	6	To be able to has information on wave forecasting methods
	7	To be able to makes wave statistic account
	8	To be able to earns about the basic concepts of coastal engineering
	9	
	10	

21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Basic Concepts in Coastal Engineering	
2	Classification of Waves	
3	Basic Equations of Wave Motion	Problem solving

4	Wave Transformation	Problem solving
5	Wave Transformation	Problem solving
6	Wave Transformation	Problem solving
7	Wave Transformation	Problem solving
8	Wind Waves	
9	Wave Forecasting	Problem solving
10	Wave Forecasting	Problem solving
11	Wave statistic	Problem solving
12	Coastal Sediment Transport	
13	Coastal Sediment Transport	Problem solving
14	Coastal Sediment Transport	Problem solving

22	Textbooks, References and/or Other Materials:	Yüksel, Y. 2009; Kıyı Mühendisliği, İstanbul; Ergin, A. 2009; Coastal Engineering, Ankara
23	Assesment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	30.00
Quiz	0	0.00
Home work-project	1	10.00
Final Exam	1	60.00
Success Grade		
Contribution of Final Exam to Success Grade	60.00	
Total	100.00	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	14	1.00	14.00
Self study and preperation	14	5.00	70.00
Homeworks	1	20.00	20.00
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 Exams	1	2.00	2.00
Total Work Load			152.00
Total work load/ 30 hr			4.87
ECTS Credit of the Course			5.00

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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	4	4	4	0	4	0	0	0	0	0	0	0	0	0	0	0

ÖK5	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0
ÖK6	4	4	4	0	4	0	0	0	0	0	0	0	0	0	0
ÖK7	4	4	4	4	5	0	0	0	0	0	0	0	0	0	0
ÖK8	3	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