MARINE METEOROLOGY

1	Course Title:	MARINE METEOROLOGY	
2	Course Code:	DLIS216	
3	Type of Course:	Optional	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
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:	Öğr. Gör. İBRAHİM SAPMAZ	
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.	
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Gemlik Asım Kocabıyık Meslek Yüksekokulu Deniz ve Liman İşletmeciliği Programı 16600 Gemlik/Bursa Telefon: 0 224 512 3491 E-Posta: emtacar@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	Student -understands and describes the elements of meteorology -measures and evaluates the elements of meteorology -receives and assess weather forecasts, then takes appropriate action In port or during the course; By measuring meteorological elements, assessment, and will take appropriate action.	
19	Contribution of the Course to Professional Development:	It makes evaluations about atmospheric conditions by making observations with weather forecast reports.	
20	Learning Outcomes:		
		1	Understand the atmosphere and be able to explain its relation with sea and maritime activities.
		2	Describe the meteorological properties of Troposphere
		3	Understand and explain weather and sea interaction and meteorological conditions
		4	Forecast weather condition
		5	Present before an audience the results and outcome of any exercise
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		10	
21	Course Content:		
	Course Content:		
Week	Theoretical		Practice

1	METEOROLOGY - Atmosphere Description and Important Branch of Meteorology, Marine Meteorology, Marine Meteorology and Related Activities, A Description of the atmosphere, Atmospheric Composition, Atmospheric Floor, Standard Atmosphere	
2	HEAT, TEMPARATURE Air Temperature, Measurement of Temperature, Temperature Changes, Vertical Air Motion Effects of Temperature, Temperature Measuring Instruments, The Control of The Thermometers And Thermography	
3	ATMOSPHERIC PRESSURE Measurement of Pressure, Pressure Changes, Pressure Measurement Instruments, Isobar, Pressure Gradient, Low And High Pressure Centers	
4	WIND Wind and Properties, Factors Affecting Wind, Wind Types, Measurement of Wind, Wind Measurement Instruments, True and Apparent Wind	
5	EVAPORATION, INSOLATION, CONDENSATION, MOISTURE Evaporation, Evaporation Measurement Instruments, Insolation, Insolation Measuring Instruments, Condensation, Moisture And Moisture Types, Methods Used İn Measuring Moisture, Humidity Measurement Instruments, Humidity Effect Cargo	
6	CLOUDS, PRECIPITATION AND METEORS Measuring Instruments, Meteors	
7	VISIBILITY, FOG, METEOROLOGICAL Classification, Mist, Haze, Meteorological Observation	
9	AIR MASSES Air Mass Formation, Stable and Unstable Air Masses, Air Masses Affecting Turkey	
10	FRONTS Structures, The Typical Structure of Fronts, Course of Formation of Fronts, Classification Stationary Fronts OCEANS, SEAS, WAVES, TIDES, CURRENTS Oceans And Seas, The Temperature And Salinity of Sea Water, Waves, Waves of Cracking, Tides, Currents	
11	OCEANS, SEAS, WAVES, TIDES, CURRENTS Oceans And Seas, The Temperature And Salinity of Sea Water, Waves, Waves of Cracking, Tides, Currents	
12	SYNOPTIC CODING, SYNOPTIC CHARTS Synoptıc Codıng In Voluntary Observation Ships, Synoptic Map And Processing Technique	
13	WEATHER FORECAST How to Prepare the weather forecast? Weather Forecast In The Ship	
14	WEATHER FORECAST How to Prepare the weather forecast? Weather Forecast In The Ship	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	4.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	1.00	1.00
Others	1	5.00	5.00
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

22	Textbooks, References and/or Other Materials:	Öney, S., ve Yılmaz, A., 2000, Denizcilik meteorolojisi, Görsel Sanatlar Matbaacılık, 304 sayfa, Istanbul Çevik Ü., 2005, Denizcilik Meteorolojisi Ders Çalışma Kılavuzu, Birsen Yayınevi, İstanbul, 171 sayfa
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
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation is carried out according to the principles of Bursa uludag University Associate and Undergraduate Education Regulation.

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	4	0	3	0	0	0	0	0	0	2	0	1	0	0	0	0
ÖK2	3	0	1	0	1	0	0	0	0	2	0	0	0	0	0	0
ÖK3	2	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0
ÖK4	0	0	4	0	0	0	0	0	0	3	0	2	0	0	0	0
ÖK5	0	0	3	0	3	0	0	0	0	2	0	2	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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