NAVIGATION IN SEA

1	Course Title:	NAVIGATION IN SEA
2	Course Code:	HRTS238
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:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr.Gör. HAKAN KÖSE
15	Course Lecturers:	Meslek Yüksek Okulları Yönetim Kurullarının görevlendirdiği öğretim elemanları
16	Contact information of the Course Coordinator:	Öğr.Gör. Hakan KÖSE Harita ve Kadastro Programı Gemlik Asım Kocabıyık Meslek Yüksekokulu Tel: (224) 5123491 / 62233 E-posta: hakankose@uludag.edu.tr
17	Website:	
18	Objective of the Course:	Teaching, methods and techniques needed to know how a ship from a position (position of) to another location as soon as possible and safety. To introduce of navigation equipments on board and general informations about navigation, navigation terms, to prepare the engineer and seamen to marine life, mercator maps, lanterns, sextant, radar and echosounder.
19	Contribution of the Course to Professional Development:	Introduction to navigation, magnatic compass, variation and deviation, gyro compass, application gyro compass errors to route, mercator projection, map information, symbols, shortens, map corrections, notices to seamen, shore course, to put position on map, using publications and maps related to navigation, method for draw up a report, lanterns, echosounder, radar, using electronic navigation equipments
20	Learning Outcomes:	
	1	Recognize the navigational equipment
	2	Fixed the pozition, detirmine the route, tracks the route
	3	Learns navigation and kinematic positioning.
	4	Learns terrestrial and satellite based data communication links and other telecommunication systems.
	5	Can choose the appropriate navigation method and tool for the nature of the problem.
	6	Can use communication and data infrastructure and measurement methods effectively in kinematic positioning.
	7	To integrate navigation products into GIS.
	8	
	9	

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21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Description of navigation definition, history and types	
2	Standardization for navigation maps.	
3	Electronic maps and navigation systems integration.	
4	Maps and navigational charts	
5	Bearing route and route angle	
6	Navigational distance measurement instruments	
7	Lighting and beacon characteristic and types	
8	Repeating courses and midterm exam	
9	Astronomic navigation	
10	Parageta navigation	
11	Electronic navigation	
12	Mobile devices and personal navigation applications (Cell phones, PDA etc.)	
13	Electronic maps and navigation systems integration.	

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	3.00	42.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			90.00
Contribution of Term (Year) Learning Activities to Success Grade	40.00		3.00
ECTS Credit of the Course			3.00

Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	Quantification and considerationare carried out according to the principles of Bursa Uludağ University Associate and Undergraduate Education and Training 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	3	0	0	0	0	3	0	0	0	4	0	0	0	0	0	0

ÖK2	3	0	0	0	0	3	0	0	0	4	0	0	0	0	0	0
ÖK3	3	0	0	0	0	3	0	0	0	4	0	0	0	0	0	0
ÖK4	3	0	0	0	0	3	0	0	0	4	0	0	0	0	0	0
ÖK5	3	0	0	0	0	3	0	0	0	4	0	0	0	0	0	0
ÖK6	3	0	0	0	0	3	0	0	0	4	0	0	0	0	0	0
ÖK7	3	0	0	0	0	3	0	0	0	4	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**