Course Title	Applied Navigation									
Course Code	MANS-211									
Course Type	Required									
Level	1 <sup>st</sup> Cycle									
Year / Semester	2 <sup>nd</sup> Year, Fall Semester									
Teacher's Name	Mr. Tafanides Panayiotis									
ECTS	6	Theory	Laboratory Simulation		Tutorial					
		4	2							
Course Purpose and Objectives  Learning Outcomes	<ul> <li>introduce</li> <li>describe to</li> <li>define the</li> <li>give detai</li> <li>exhibit the</li> <li>display th</li> <li>elaborate</li> <li>analyze the</li> <li>After complete</li> </ul>	<ul> <li>introduce the altitudes corrections</li> <li>describe the use of the rising and setting of heavenly bodies in navigation</li> <li>define the twilight and its use to navigation</li> <li>give details about the latitude at noon and latitude by Polaris observations</li> <li>exhibit the utilization of two or more position lines in position fixing</li> <li>display the procedure of the recognition of heavenly bodies</li> <li>elaborate on issues of oceanographic phenomena</li> </ul>								
Outcomes	<ul> <li>consider time in their position fixing process</li> <li>correct properly the sextant altitudes</li> <li>observe the true rising and setting of heavenly bodies as a means establishing the compass error</li> <li>calculate the local times of morning and evening twilight</li> <li>extract the latitude out of a body's meridian passage or out of a Pola observation</li> <li>fix their position utilizing two or more position lines</li> <li>define the sea's level using data provided by the tide tables</li> </ul>									

	safely navigate a life boat after abandoning the vessel								
	receive and immediately install the corrections provided by the notices to mariners								
Prerequisites	MANS-1	14	Requ	uired	1	None			
Course Content	<ul> <li>Time types, equation of time, solar and sidereal time</li> <li>Altitude corrections</li> <li>Rising and setting of heavenly bodies, twilights and relevant applications</li> <li>Compass error at true rise or set</li> <li>Compass error using time</li> <li>Latitude at sun's meridian passage</li> <li>Polaris observations</li> <li>Evaluating a celestial position line</li> <li>Development of two or more celestial position lines</li> <li>Identification of heavenly bodies</li> <li>Tides, oceanographic phenomena</li> </ul>								
Teaching Methodology	<ul> <li>Notices to mariners management</li> <li>Lectures, in-class assignments, sound and video equipment, computer, projector, relevant software, Bridge simulator</li> </ul>								
Bibliography	Required Textbooks/Reading:								
Dibilography	Authors	Title		Publishe	r Year	ISBN			
	Bowditch, N.	The Ame Practical	rican Navigator	Paradise Cay Publicatio	2004 ns	093983754 4			
	Recommended Textbooks/Reading:								
	Authors T			Publis	her Year	ISBN			
	Sybramaniam,		tical gation	Vijaya Publica ns	1978 atio				
	Cutler, T.,J.	navig	•	Institut	е	978155750 2483			
Assessment	Homework, in-c	lass assigr	nments, proj	ects, exam	s, final exan	n.			
Language	English								