<table>
<tr><td>Course Title</td><td colspan="5">Marine Meteorology</td></tr>
<tr><td>Course Code</td><td colspan="5">MANS-212</td></tr>
<tr><td>Course Type</td><td colspan="5">Required</td></tr>
<tr><td>Level</td><td colspan="5">1st Cycle</td></tr>
<tr><td>Year / Semester</td><td colspan="5">2nd Year, Fall Semester</td></tr>
<tr><td>Teacher’s Name</td><td colspan="5">Mr. Peristianis Vasileiou</td></tr>
<tr><td rowspan="2">ECTS</td><td rowspan="2">6</td><td>Theory</td><td>Laboratory</td><td>Simulation</td><td>Tutorial</td></tr>
<tr><td>4</td><td>---</td><td>---</td><td>-----</td></tr>
<tr><td>Course Purpose and Objectives</td><td colspan="5">The main objectives of the course are to:
present the meteorological instruments on board
introduce the characteristics of the various weather systems
analyze the weather reporting procedures
explain the symbols used in the synoptic chart and in the pilot charts
elaborate on the area weather prognosis given the prevailing weather conditions and other relevant information
display the characteristics of the revolving tropical storms and the best practices to avoid the dangerous semicircle
represent the structure of the depressions
exhibit the operation and the targets of the World Meteorological Organization
describe the meteorological codes
illustrate the weather prognosis procedures
demonstrate the ocean currents systems basics
exhibit the ice basics</td></tr>
<tr><td>Learning Outcomes</td><td colspan="5">After completion of the course students are expected to be able to:
name and utilize the meteorological instruments on board and evaluate their readings
identify the major weather systems
fill a weather report following the proper procedure</td></tr>
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	• receive analytic and forecasting charts, weather bulletins, NAVTEX weather reports, satellite photos • read in detail a synoptic and a pilot chart • make a local weather prognosis given the prevailing weather conditions and other relevant information • recognize the characteristics of revolving tropical storms and employ the best practices to avoid the dangerous semicircle • realize the importance of the services WMO is offering • code and decode meteorological data • apply weather prognosis practices to ensure a safe passage • comprehend the basics on the ocean currents systems • appreciate the development and distribution of sea ice		
Prerequisites	None	Required	None
Course Content	• Atmosphere, its elements and its natural properties • Atmospheric pressure • Winds and waves • Clouds and precipitation • Visibility • General circulation of atmosphere • Regional wind systems • Air masses and fronts • Barometric Lows and Highs • Tropical revolving storms • Meteorological support for mariners • Meteorological observations on board • Weather forecasting • Ocean currents • Ice		
Teaching Methodology	Lectures, in-class assignments, sound and video equipment, computer, projector, internet		

<table>
<tr><td>Bibliography</td><td>
Required Textbooks/Reading:
<table>
<tr><th>Authors</th><th>Title</th><th>Publisher</th><th>Year</th><th>ISBN</th></tr>
<tr><td>Meteorological office</td><td>Meteorology for Mariners</td><td>London HMSO</td><td>1996</td><td>0-114-00367X</td></tr>
</table>
Recommended Textbooks/Reading:
<table>
<tr><th>Authors</th><th>Title</th><th>Publisher</th><th>Year</th><th>ISBN</th></tr>
<tr><td>Cornish, M., Ives. E.</td><td>Reeds Maritime Meteorology</td><td>Adlard Coles</td><td>2010</td><td>978-1408112069</td></tr>
<tr><td>Meteorological office</td><td>Marine Observer’s Handbook</td><td>London HMSO</td><td>1995</td><td>0-11-400297-5</td></tr>
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<tr><td>Assessment</td><td>Homework, in-class assignments, projects, exams, final exam.</td></tr>
<tr><td>Language</td><td>English</td></tr>
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