<table>
<tr><td>Course Title</td><td colspan="5">Simulation - BMS</td></tr>
<tr><td>Course Code</td><td colspan="5">MANS-412</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">4th Year, Spring Semester</td></tr>
<tr><td>Teacher’s Name</td><td colspan="5">Captain. Dr. Andreas Frangos</td></tr>
<tr><td rowspan="2">ECTS</td><td rowspan="2">3</td><td>Theory</td><td>Laboratory</td><td>Simulation</td><td>Tutorial</td></tr>
<tr><td>---</td><td>---</td><td>2</td><td>---</td></tr>
<tr><td>Course Purpose and Objectives</td><td colspan="5">The main objectives of the course are to:
• display the need for the use of a Bridge Management System
• demonstrate the Bridge Management System principles
• introduce the best practices on board
• apply all the navigational issues presented so far in real life scenarios</td></tr>
<tr><td>Learning Outcomes</td><td colspan="5">After completion of the course students are expected to be able to:
• comply with the Bridge Management System’s principles
• execute the best BMS practices on board
• employ the System in all adverse situations
• propose specific modifications of the system’s implementation methods
• utilize all the navigational related information presented to them from the beginning of the course</td></tr>
<tr><td>Prerequisites</td><td colspan="2">None</td><td>Required</td><td colspan="2">None</td></tr>
<tr><td>Course Content</td><td colspan="5">• Need for Bridge Management System
• System’s description
• Relevant forms
• Record keeping methods
• Various resource management
• Implementation practices</td></tr>
</table>

<table>
<tr><td></td><td>

Complicated simulation scenarios in which all major factors are included (COLREGS, wind, current, narrows, VTSS, communications, engine failures, mechanical failures, etc.)
Assessment of the scenario results
Evaluation of the implementation of the BMS

</td></tr>
<tr><td>Teaching Methodology</td><td>BMS simulation and theory at BSM Maritime Training Centre</td></tr>
<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>International Chamber of Shipping</td><td>Bridge procedure guide</td><td>London, Marisec Publications</td><td>2007</td><td></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>Gill, G., W.</td><td>Maritime error management</td><td>Schiffer publishing</td><td>2010</td><td>9780870336263</td></tr>
<tr><td>IMO</td><td>SN.1/Circ.288: Guidelines for bridge equipment and systems their arrangement and integration</td><td>IMO</td><td></td><td></td></tr>
</table>
</td></tr>
<tr><td>Assessment</td><td>Examination on BMS simulator and provision of Certificate by approved and certified training center – BSM Maritime Training Centre</td></tr>
<tr><td>Language</td><td>English</td></tr>
</table>