<table>
<tr><td>Course Title</td><td colspan="5">ECDIS</td></tr>
<tr><td>Course Code</td><td colspan="5">MANS-216</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 (Supervisor)</td></tr>
<tr><td rowspan="2">ECTS</td><td rowspan="2">4</td><td>Theory</td><td>Laboratory</td><td>Simulation</td><td>Tutorial</td></tr>
<tr><td>1</td><td>---</td><td>1</td><td>---</td></tr>
<tr><td>Course Purpose and Objectives</td><td colspan="5">The main objectives of the course are to:
present the operational principles of ECDIS
describe the use of navigational functions
display the evaluation of all relevant systems information
discuss the proper respond procedures in case of malfunction
define the reporting and identification procedures of possible data and interpretation errors
elaborate on issues of overconfidence in the system</td></tr>
<tr><td>Learning Outcomes</td><td colspan="5">After completion of the course students are expected to be able to:
comprehend the basic operational principles of ECDIS
fully recognize the use of all navigational functions
carefully assess all the relevant systems information
respond accordingly to any case of equipment malfunction
take into consideration all possible data and interpretation errors following the relevant procedures
consider the navigational information of all available sources and never rely solely to a single navigational aid</td></tr>
<tr><td>Prerequisites</td><td colspan="2">MANS-114</td><td>Required</td><td colspan="2">None</td></tr>
<tr><td>Course Content</td><td colspan="5">General description of ECDIS system
Watch keeping with ECDIS
Planning and execution of the voyage</td></tr>
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Data input (Position, speed, heading, course, targets, radar, AIS etc.) from other electronic devices.
Targets, charts and system
Charts updating
Effect of errors
Dangers from malfunctions
ECDIS standards and evaluation
System confidence

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<tr><td>Teaching Methodology</td><td>ECDIS simulator 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>Weintrit, A.</td><td>The Electronic Chart Display and Information System</td><td>CRC Press</td><td>2009</td><td>978-0-415-48246-2</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>Becker – Heins, R.</td><td>ECDIS basics</td><td>Geomares</td><td>2014</td><td>978-90-806205-9-9</td></tr>
<tr><td>Hecht, H., Berking, B., Jonas, M., Alexander, L.</td><td>The Electronic Chart</td><td>Geomares</td><td>2014</td><td></td></tr>
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<tr><td>Assessment</td><td>Examination on ECDIS 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>
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