

## SEAMANSHIP TRAINING MODULE

### Summer camp in Seamanship Training Base

#### Module Description

<b>Country</b> RO	<b>Institution</b> RNA	<b>Course title:</b> <b>SEAMANSHIP TRAINING MODULE</b> <b>Summer camp in Seamanship Training Base</b>	<b>ECTS</b> <b>3</b>
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Service <b>All services</b>	<b>Minimum Qualification for Lecturers</b>	
Languages <b>English</b>	<ul style="list-style-type: none"> <li>• Trainer certified on navigation specialty.</li> <li>• English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2.</li> </ul>	
<b>Prerequisites for international participants:</b>		<b>Goal of the Module:</b>
<ul style="list-style-type: none"> <li>• English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2.</li> <li>• General knowledge on navigational duties – online theory on Seamanship to be achieved as prerequisite.</li> </ul>		<ul style="list-style-type: none"> <li>• Controlling ship operation and people safety on board at operational level.</li> <li>• Carrying out navigational duties at operational level ob small boats.</li> </ul>

<b>Learning outcomes</b>	<b>Knowledge</b>	<ul style="list-style-type: none"> <li>• Knowledge and understanding of the main ship dimensions and what seaworthiness quality of the ship implies.</li> <li>• Knowledge of ship types characteristics and operational purposes.</li> <li>• Capacity to use the International Code of Signals.</li> <li>• Knowledge of the main deck naval equipment.</li> <li>• Knowledge, complete and understanding of the Rules of the Road, as well as the principles of safe execution of a navigational watch.</li> <li>• Fulfilling navigational duties at operational level. Operational duties in supervising the operation of a ship and the protection of the people onboard.</li> <li>• Showing and applying a rigorous, efficient and responsible attitude about the activity, having an ethic composition in solving problems and decision making.</li> <li>• Utilization of the human relation techniques in a multicultural crew, on different hierarchical levels, written or oral communication, efficient collaboration with specialists in different domains.</li> </ul>
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	<p><b>Skills</b></p>	<ul style="list-style-type: none"> <li>• Identify the fundamental elements of ship structure and equipment.</li> <li>• Ability to send and receive visual information signals by using the International Code of Signals.</li> <li>• Ability to carry out measurements to coastal landmarks, to make a fix on the chart, to determine the coordinates of ship`s position using both coastal landmarks and navigational aids such as lights, buoys, and beacons and to assess their degree of accuracy.</li> <li>• Ability to determine the errors of magnetic and gyro compasses using terrestrial means and to introduce corrections for these errors.</li> <li>• Ability to determine the ship`s position by using coastal landmarks, navigational aids including lights, buoys, and beacons.</li> <li>• Ability to use the sextant to measure horizontal and vertical angles.</li> <li>• Ability to recognize the main stars and constellations.</li> <li>• Demonstrate and apply a rigorous, efficient, and responsible attitude towards the work performed showing a real ethical commitment, in solving problems and making decisions.</li> <li>• Efficient use of interpersonal communication techniques in a multicultural team, on various hierarchical levels, oral and written communication, effective collaboration with specialists in multiple fields.</li> </ul>
	<p><b>Competence</b></p>	<ul style="list-style-type: none"> <li>• To determine ship`s position using coastal landmarks, navigational aids and observing the stars.</li> <li>• To understand the Rules of the Road, as well as the principles of safe execution of a navigational watch.</li> <li>• Forming and developing the capacity necessary in decision making in the most complex situations.</li> <li>• Forming and developing the capacity of organizing and leading the activities during the watch in the most complex situations met onboard.</li> <li>• Forming and developing the capacity (knowledge and skills) to react in dangerous situations and take proper actions in these situations.</li> </ul>

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Verification of learning outcomes
<ul style="list-style-type: none"> <li>• <b>Observation:</b> <ul style="list-style-type: none"> <li>○ The theoretical part will be uploaded as prerequisite on marplat.eu platform, and the practical stage of navigation training will be conducted in the Seamanship Training Centre, ISDS and planetarium.</li> </ul> </li> <li>• <b>Tests:</b> <ul style="list-style-type: none"> <li>○ The assessment strategy is based on solving team exercise, developed into a navigational simulation environment (ISDS).</li> </ul> </li> <li>• <b>Evaluation:</b> <ul style="list-style-type: none"> <li>○ The observation and the practical test (s) result in the overall grading of the module. Qualified individual feedback will be provided to participants.</li> </ul> </li> </ul>

Module details		
Main Topic	Reco- mmended WH	Details
Seamanship training, responsibilities, duties, and rules – Seamanship Training and Nautical Sports Centre – Palazu Mare	12	<ul style="list-style-type: none"> <li>• Boats. Description, construction, inventory. Rigging;</li> <li>• Ropes. Types, structure, use, maintenance, and handling.</li> <li>• Knotting and Splicing. Different types of knots. Making rugs and knitting;</li> <li>• Boat berthing. Training in heaving line throwing;</li> <li>• Sending and receiving signals in Morse code;</li> <li>• Sending and receiving messages using the International Code of Signals;</li> <li>• Sending and receiving distress and safety signals;</li> <li>• Oar boats handling.</li> <li>• Rowing boats handling.</li> <li>• Sailing boats handling.</li> </ul>
Standard commands and communication on navigation bridge	2	<ul style="list-style-type: none"> <li>• Standard communication on navigation bridge according to SMCP.</li> </ul>
The Rules of the Road - training on ISDS	4	<ul style="list-style-type: none"> <li>• Collision Regulations - COLREG 72. Aim, application. Application domain, responsibilities, and general definitions. Conduct of vessels in any visibility: Rules 1 to 10</li> </ul>

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		<ul style="list-style-type: none"> <li>• Collision Regulations - COLREG 72. Conduct of vessels in sight of each other. Conduct of vessels in restricted visibility: Rules 11 to 19</li> <li>• Collision Regulations - COLREG 72. Lights and Shapes: Rules 20 to 24</li> <li>• Collision Regulations - COLREG 72. Lights and Shapes: Rules 25 to 31</li> <li>• Collision Regulations - COLREG 72. Sound and Light: Rules 32 to 38</li> <li>• Collision Regulations - COLREG 72. Position and Technical Details of Light and Shapes. Additional Signals for Fishing Vessels Fishing in Close Proximity – Annex I and II</li> <li>• Collision Regulations - COLREG 72. Technical Details of Sound Signal Appliances. Distress Signals: Annex III and IV</li> </ul>
<p>Dead reckoning and coastal navigation – training on ISDS</p>	4	<ul style="list-style-type: none"> <li>• The system of the geographic coordinates. Coordinate differences. Measurement units used in navigation.</li> <li>• Courses and bearings. Accounting systems of courses and bearings.</li> <li>• Terrestrial magnetism, magnetic declination. Ship`s magnetism, compass deviation.</li> <li>• Compass and gyro courses and bearings conversion.</li> <li>• The nautical documents (Pilot Book, Light and Fog signals).</li> <li>• Ship`s positions: Dead Reckoning Position, Sea Position, Estimated Position.</li> <li>• Coastal position lines. Coastal navigation landmarks.</li> <li>• Fix position</li> <li>• The sextant. The measurement of horizontal and vertical angles</li> </ul>
<p>Celestial navigation – planetarium and astronomical observations – planetarium practice</p>	2	<ul style="list-style-type: none"> <li>• Constellations and main stars. Stellar magnitudes. Identification of the stars through direct observation and using the alignment method and using the celestial charts.</li> <li>• The Navisphere or star finder for preparing the observations or identifying the stars.</li> </ul>

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Final evaluation	4	<ul style="list-style-type: none"> <li>The final assessment consists in testing the student's abilities.</li> <li>The student's decisions and actions will be evaluated.</li> </ul>
<b>Total lecture WH</b>	<b>28</b>	
<b>Additional hours (WH) to increase the learning outcomes</b>		
Self-Study	47	<p><b>References:</b></p> <ul style="list-style-type: none"> <li>Cockcroft, A. ,N., Lameijer, J., N., <i>A Guide to the Collision Avoidance Rules</i>, Elsevier, Oxford, 2006</li> <li>* * * , <i>Chart No. 1: Nautical Chart Symbols, Abbreviations and Terms</i>, 2008</li> <li>* * * , IALA Maritime Buoyage System</li> <li>* * * , Admiralty List of Lights and Fog Signals Vol.A–L</li> <li>***, NTPRO 5000 Navigational Bridge</li> <li>* * * , <i>Bowditch -The American Practical Navigator</i>;</li> <li>* * * , <i>BROWN.s Nautical Almanac</i>;</li> </ul>
<b>Total WH</b>	<b>75</b>	<p>28 residential hrs (10 teaching hrs + 14 practical exercises + 4 final assessment);</p> <p>47 self-study.</p>

#### List of Abbreviations:

RO.....	Romania
RNA.....	Romanian Naval Academy “Mircea cel Batran”
CEFR.....	Common European Framework of Reference for Languages
B2.....	Common Reference Levels
ECTS.....	European Credit Transfer and Accumulation System
NATO.....	North Atlantic Treaty Organisation
STANAG.....	Standardization Agreement
WH.....	Working Hour
INSS.....	Integrated Ship Driving Simulator