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| **Country**  **BG** | **Institution**  **NVNA** | **Course title:**  **MARITIME SECURITY** | **ECTS**  **2** |

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| Service  **Navy** | **Minimum Qualification for Lecturers**   * Naval experience as CO, XO or OOW * English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2. | |
| Languages  **English** |
| **Prerequisites for international participants:**   * English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2. | | **Goal of the Module:**   * Basic Knowledge on Security Environment in the Maritime Domain. * Familiarization with principles of Naval Control over maritime areas. * Familiarization with Naval Cooperation and Guidance for Shipping. * Basic skills for implementation of RoE and OODA-loop in Maritime Security Environment. |

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| Learning outcomes | Knowledge | * Basic Knowledge on Security Environment in the Maritime Domain. * Basic Knowledge on Naval Control and Guidance of Shipping. * Basic understanding of the EU maritime strategy. |
| **Skills** | * Ability to orient in dynamic security environment. * To obtain common situational awareness. * Leadership and efficient decision making in accordance with security and tactical factors in the Maritime domain. * To implement theoretical knowledge accordingly in order to solve tasks in simulated naval environment. * To communicate with teammates on navigational bridge, to give orders, reports, and to express expert opinion on given security task on board of the ship. * To use basic voice communication techniques and procedures on bridge. |
| **Competence** | * To control resources on Navigational Bridge concerning the management of security environment. * To establish and to exploit efficiently Command and Control system in accordance with security situation * To understand the course of action of the higher command level and takes the necessary initiative to contribute to its success. * To make decisions in an unpredictable operating naval environment * To adapt to various types of conflicts, naval actions based on acquired knowledge |

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| **Verification of learning outcomes** |
| * **Observation**:   + The course is consisted of theoretical classes followed by practice on Full Mission Virtual Ship handling Simulator resembling battle ship navigational bridge. * **Tests**:   + The module learning outcomes verification concept is based on assessment of trainee’s knowledge, skills, and competences revealed after personal tasking during training process supported by fictitious scenarios developed into a virtual environment. * **Evaluation**:   + The final evaluation of trainees is made on basis of observation of results and practical tests during the final stage of the presented module. Certificate of attendance and individual feedback is provided to participants. |

| **Module details** | | |
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| **Main Topic** | **Reco-mmended**  **WH** | **Details** |
| EU maritime strategy. | 4 | * Core principles * Objectives - overall security and peace, rule of law and freedom of navigation, external border control, maritime infrastructure, natural resources and environmental health, climate change preparedness * Actions - international cooperation, maritime surveillance, capability development, research and innovation, risk management, education and training |
| Command, Control and Communication on Tactical Level. Resource management. | 2 | * Theoretical basis of C3 principles * Implementation of C3 principles on Tactical Level in the Navy * Leadership and Adequate Management of Available Resources on board |
| NCAGS - Relationship with civilian shipping | 2 | * NCAGS Concept and Structure * NCAGS Information Formats |
| Protective Measures Against Threats to Merchant Ships | 4 | * Situational Awareness * Threat Warnings * General Threat Considerations * Types of Threat |
| Applicable Rules of Engagement at sea | 4 | * The right of self-defense of naval vessel * The use of force during naval operations * Competences of military and non-military maritime authorities |
| ROE Procedures | 6 | * Training of Procedures, Communications, Maneuvering assisted by use of a Full Mission Virtual Ship-handling Simulator * Bridge to Bridge Communications and Tactical signals for maneuvering in surface formation * Processing of Tactical Signals |
| Joint Sailing of Surface Task Group | 6 | * Implementation of knowledge and skills for protection of Surface Task Group by use of applicable RoE * Watch keeping. Practice of STCW requirements / OOW duties * Guidance and Protection of shipping in maritime crisis environment |
| Final evaluation | 2 | * Observations of results and practical tests during the final stage of the module |
| **Total lecture WH** | **30** |  |
| **Additional hours (WH) to increase the learning outcomes** | | |
| Self-Studies | 20 | **References:**   * ATP-02.1 NCAGS Guide to Owners, Operators, Masters and Officers * European maritime security strategy * San Remo Handbook on Rules of Engagement |
| **Total WH** | **50** | 30 residential hours (10 teaching hours + 18 practical exercises + 2 hours final assessment);  20 hours self-study. |

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| **List of Abbreviations:** |
| B2………………………………………………………………………Common Reference Levels BG…………………………………………………………...………………………………Bulgaria C3…………………………………………………..……...Command, Control and Communication  CEFR……………………………..…. Common European Framework of Reference for Languages  ECTS……………………………...…………. European Credit Transfer and Accumulation System  NATO……………………………..………………………….... North Atlantic Treaty Organisation  NCAGS………………………………..…………… Naval Cooperation and Guidance for Shipping  NVNA…………….……………………….…………………… Nikola Vaptsarov Naval Academy  OOW…………………………………….……………………………………..Officer of the Watch  RoE………………………………………….……………………………...…Rules of Engagement  STANAG……………………………………..………………………... Standardization Agreement  STCW……………………………...……... Standards of Training Certification and Watch keeping  WH…………………………………………..………………………………………. Working Hour |