

Naval Warfare Tactics Training Module on Tactical Simulator Module Description

Country RO	Institution RNA	Course title: NAVAL WARFARE TACTICS Training Module on Tactical Simulator	ECTS 2
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Service Navy	Minimum Qualification for Lecturers	
Languages English	<ul style="list-style-type: none"> • Tactical Trainer certified on PROTEUS ASTT Simulator. • English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2. 	
<p style="text-align: center;">Prerequisites for international participants:</p> <ul style="list-style-type: none"> • English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2. • General knowledge in warfare tactics (all services) 		<p style="text-align: center;">Goal of the Module:</p> <ul style="list-style-type: none"> • Knowledge on integrated naval weaponry systems. • Familiarize with NATO naval-specific warfare procedures. • Encode and decoding a tactical message. • Building a naval tactical situation and optimizing the decision-making process. • Knowledge about command-and-control systems on board ships under simulated environment.

Learning outcomes	Knowledge	<ul style="list-style-type: none"> • Acquisition of updated knowledge regarding the integrated naval weaponry systems and the integrated command and control systems on board ships. • Familiarizing students with naval-specific warfare procedures (NATO). • Expertise in encoding and decoding tactical messages in naval warfare.
	Skills	<ul style="list-style-type: none"> • Analyze the warfare variables and dynamic tactical situation under simulated conditions. • Building a naval tactical situation and solution finding in decision making process. • Demonstrate and apply a rigorous, efficient, and responsible attitude towards the work performed showing a real ethical commitment, in solving problems and making decisions. • 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.

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Competence	<ul style="list-style-type: none"> • The student is able to describe the military ship as a combat system, identifying the component parts of the system and explaining how it works within a naval warfare context. • The student can describe the structure of an integrated command-and-control system and explain how it works within a naval warfare context. • The student is able encode a tactical message, respectively to decode a tactical message.
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Verification of learning outcomes
<ul style="list-style-type: none"> • Observation: <ul style="list-style-type: none"> ○ The theoretical part will be uploaded as prerequisite on marplat.eu platform, and the practical stage of naval warfare training will be conducted on the PROTEUS ASTT tactical simulator. • Tests: <ul style="list-style-type: none"> ○ The assessment strategy is based on solving team exercise, developed into a warfare simulation environment (PROTEUS ASTT tactical simulator). • Evaluation: <ul style="list-style-type: none"> ○ The observation and the practical test (s) result in the overall grading of the module. Qualified individual feedback will be provided to participants.

Module details		
Main Topic	Reco- mmended WH	Details
Naval Formations and Maneuvering	2	<ul style="list-style-type: none"> • Naval Units, Formations, and Line Guides. • Line Formations. • Circular Formations.
Tactical messages and signals	2	<ul style="list-style-type: none"> • Creating tactical message. • Sending and receiving a tactical message.
Naval warfare simulating environment - PROTEUS ASTT simulating facility	2	<ul style="list-style-type: none"> • Induction in naval simulating environment - general presentation of the Proteus ASTT simulator and scenarios building.

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AAW - ANTI-AIR WARFARE in simulating environment – training on PROTEUS ASTT	4	<ul style="list-style-type: none"> • Making a naval formation to participate in anti-air type of naval warfare. • Making and releasing specific messages in anti-air naval operations. • Protect a naval group against anti-air threats.
ASuW - ANTI-SURFACE WARFARE in simulating environment – training on PROTEUS ASTT	4	<ul style="list-style-type: none"> • Making a formation to participate in anti-surface naval warfare. • Making and releasing specific messages for anti-surface naval operations. • Protect a naval group against surface threats.
ASW - ANTI-SUBMARINE WARFARE in simulating environment – training on PROTEUS ASTT	4	<ul style="list-style-type: none"> • Making a formation to participate in anti-submarine warfare. • Making and releasing specific messages for anti-submarine naval operations. • Protect a naval group against anti-submarine threats.
NAVAL WARFARE - Complex battle scenario in simulating environment – training on PROTEUS ASTT	6	<ul style="list-style-type: none"> • An allied naval group is forced to repel air attacks, naval (surface ships), but also submarine threats. • This exercise simulates fighting in all 3 (three) environments.
Final evaluation	4	<ul style="list-style-type: none"> • The final assessment consists of defending a naval group against a specific pre-defined threat. The student's decisions and actions will be evaluated.
Total lecture WH	28	
Additional hours (WH) to increase the learning outcomes		
Self-Studies	22	<p>References: NATO Naval Tactics Doctrine</p> <ul style="list-style-type: none"> • AJP-3 ALLIED JOINT DOCTRINE FOR THE CONDUCT OF OPERATIONS. • ATP 3-04.18/MCRP 3-20.2/NTTP 3-20.8/AFTTP 3-2.74, Multi-Service Tactics, Techniques, and Procedures for Air Operations in Maritime Surface Warfare; • NTTP 3-02.3M/MCTP 13-10D, Maritime Prepositioning Force Operations; • NWP 3-21, Fleet Anti-submarine Warfare;



Implementation Group

Doc.: IG/ 2022

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		<ul style="list-style-type: none"> • NWP 3-32, Command and Control of Maritime Forces at the Operational Level of War. • ATP-01, Volume II - ALLIED MARITIME TACTICAL SIGNAL AND MANEUVERING BOOK
Total WH	50	28 residential hrs (10 teaching hrs + 14 practical exercises + 4 final assessment); 22 self-study.

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
- ASTT..... Action Speed Tactical Trainer
- AAW..... AntiAir Warfare
- ASuW..... AntiSurface Warfare
- ASW..... AntiSubmarine Warfare
- ATP.....Allied Tactical Publication