

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 3
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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. 	
Prerequisites for international participants: <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). 		Goal of the Module: <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.

Main Topic	Recommended 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	47	<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;

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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	75	28 residential hrs (10 teaching hrs + 14 practical exercises + 4 final assessment); 47 self-study (conducted on www.marplat.eu).

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