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

Service **Navy**	**Minimum Qualification for Lecturers**
	• Tactical Trainer certified on PROTEUS ASTT Simulator.
Languages **English**	• English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2.

Prerequisites for international participants:	**Goal of the Module:**
• English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2. • Fulfilling the trainer standards for PROTEUS ASTT Simulator. • NATO clearance.	• 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**	• 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	• 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	• 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.

Verification of learning outcomes
• **Observation**: 　○ 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**: 　○ The assessment strategy is based on solving team exercise, developed into a warfare simulation environment (PROTEUS ASTT tactical simulator). • **Evaluation**: 　○ 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	• Naval Units, Formations, and Line Guides. • Line Formations. • Circular Formations.
Tactical messages and signals	2	• Creating tactical message. • Sending and receiving a tactical message.
Naval warfare simulating environment - PROTEUS ASTT simulating facility	2	• Induction in naval simulating environment - general presentation of the Proteus ASTT simulator and scenarios building.

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AAW - ANTIAIR WARFARE in simulating environment – training on PROTEUS ASTT	4	- Making a naval formation to participate in antiair type of naval warfare. - Making and releasing specific messages in antiair naval operations. - Protect a naval group against antiair threats.
ASuW -ANTISURFACE WARFARE in simulating environment – training on PROTEUS ASTT	4	- Making a formation to participate in antisurface naval warfare. - Making and releasing specific messages for antisurface naval operations. - Protect a naval group against surface threats.
ASW -ANTISUBMARINE WARFARE in simulating environment – training on PROTEUS ASTT	4	- Making a formation to participate in antisubmarine warfare. - Making and releasing specific messages for antisubmarine naval operations. - Protect a naval group against antisubmarine threats.
NAVAL WARFARE - Complex battle scenario in simulating environment – training on PROTEUS ASTT	6	- 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	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	**References:** NATO Naval Tactics Doctrine - 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 Antisubmarine Warfare;

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		• 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