

46th IMPLEMENTATION GROUP MEETING

Line of Development 11 Meeting - “International Naval Semester”

11 June 2020 (09:00 – 12:00)

DRAFT MINUTES

Executive Summary

Due to COVID-19 evolution, for the first time in IG’s history, LoD 11 (International Naval Semester) working group has been conducted via VTC.

The VTC meeting took place on 11th of June 2020 09:00-12:00 (Brussel time) using Cisco Webex Meeting Tool; no particular difficulties neither technical problem were experienced.

- The LoD11 chair candidate (Lt. CDR. Samuele MONDINO) welcomed the attendants of the LoD11 Members (in Annex A).
- **Adoption of the agenda:** The agenda (in Annex B) was adopted.

1. Transfer of all main information discussed during 46^o IG Meeting – VTC Initial Meeting (02nd June 2020) to the LoD 11 Members:

All LoD 11 members received and discussed following information:

- Update on all lines of development (LoDs):
 - LoD 5 – Legal framework
Lithuania adopted the Legal framework.
 - LoD 6 – National implementation of the strategic communication program
 - EUMACS 2020 scheduled to be held in Helmut Schmidt University of the Bundeswehr in Hamburg from 29-31 October 2020;
 - EUMACS 2021 will take place in Lisbon on the premises of the Portugal Military Academy.
 - LoD 8 – Common modules/evaluations and offers
 - TMA – International Winter Semester residential phase will only take place if the COVID-19 situation allows. A decision will be made before 10th July 2020.
 - ITNA – International Fall Semester (invitations and documents will be uploaded on <http://www.emilyo.eu/node/878>) residential phase, actually confirmed, will only take place if the COVID-19 situation allows. Final decision will be made before 31th July 2020.
 - ERASMUS+ Virtual Exchange opportunity (www.europa.eu/youth/erasmusvirtual). This new opportunity has received the interest of some members of LoD11 and the request for further and more exhaustive information than that present on the link provided has been advanced.
 - Virtual Mobility opportunity;
This new project of the University of Turin, in collaboration with the IT Army Education and Training Command and School of Applied Military Studies, has also met with interest.
For more details regarding this opportunity, on the 12nd of June, the LoD 8 Chairperson Lt. Col Spinello Enrico has been contacted and his mail address (enrico.spinello@unito.it) provided to the interested members.

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- LoD 9 – Future projects
As LoD9 chair has stepped down, a new candidacy will be soon proposed and has to be approved by LoD9 members.
 - LoD 11 – International Naval Semester (INS)
As Lieutenant CDR D'ALESSANDRO (previous LoD11 chairperson) has been transferred to a new assignment, the Italian Naval Academy has proposed the candidacy of Lieutenant Cdr Samuele MONDINO. LoD 11 members has to formally accept it as the new LoD11 group chairperson.
 - LoD 14 – Research and Development
The Hellenic Air Force Academy supported candidacy of Associated Professor Ioannis TEMPLALEXIS as the chair of the R&D LoD. Also this candidacy will be discussed and approved by LoD14 members.
 - International Medical Semester
A new LoD will be established at the September IG Meeting. The Hellenic Military Academy of Combat Support Officers (HMCSO) expressed its intention to lead the Medical LoD, and will therefore nominate a chair.
- 5th CSDP Olympiad
Due to COVID-19 evolution, the Event will be held in early spring 2021 (8-12 March). Details are available at http://www.emilyo.eu/olympiad_csdp.
 - IMAF 2020
This Event has been postponed due to COVID-19 situation. The event has been rescheduled to take place on the premises of the Nicolae Balcescu Land Forces Academy in Sibiu, Romania, back-to-back with the 48th IG meeting (30 November-4 December).
 - WORKPLAN
The 47th IG meeting will take place in Brussels from 1-2 September 2020.
On Monday 31 August, from 16.00 to 18.00, there will be a workshop for new IG members; all of the necessary administrative details and documents will be available at <http://www.emilyo.eu/node/878>.
Decision on whether the IG meeting will be conducted in person or as a VTC will be made by the end of June at the latest

2. ITNA Lt.CDR Samuele MONDINO candidacy

Members discussed and **formally approved** the Italian Naval Academy candidacy of Lt. CDR Samuele MONDINO as new chairman of LoD 11 group.

3. Common modules/evaluations and offers

Lt. CDR Samuele MONDINO, representative of the Italian Naval Academy, informed that ITNA International Fall Semester (ITNA IFS) was confirmed.

ITNA – IFS 2020 starts on 28th September 2020 and ends on 31st December 2020. Last date for registration is 31st of July 2020.

Soon this documentation will be sent for upload on this page: <http://www.emilyo.eu/node/878>:

- ITNA-IFS -2020 Booklet;
- Application Form;
- All editable needed forms.

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4. General Annual Report on ESDC Activities (GAREA)

The two Excel-files at: <http://www.emilyo.eu/node/182> concerning the General Annual Report on ESDC Activities (GAREA) have to be properly filled and sent to these mail address: harald.gell@inode.at and Ilias.MAKRIS@eeas.europa.eu no later than the 17th of July 2020.

- Country Institutions who have hosted INCOMING Staff, Observers, etc. received in the academic year 2019/2020 under the European Initiative for the exchange of young officers inspired by Erasmus have to register statistic data on the Excel file “Country Institution Incoming Instructors and Staff Statistics Study Year 2019_2020”. No outgoing statistic has to be considered.
- Country Institution who have hosted INCOMING Students during Common, Non common modules or Semesters-Internships in the academic year 2019/2020 under the European Initiative for the exchange of young officers inspired by Erasmus, have to register statistic data on the Excel file “Country Institution Incoming Students Statistics Study Year 2019_2020”. Please note that to eventually register OUTGOING (Officer Cadets and Students) - which numbers cannot be gathered by the receiving institution because it is NOT a Basic Officer Institution represented in the IG you have to consider file section labelled “OUTGOING to NON-BOEI”.

5. International Naval Semester

- **List of EQF7 Modules** were approved as follow:

INTERNATIONAL NAVAL SEMESTER	ECTS
ENGLISH NAVAL TERMINOLOGY	2
NAVAL SENSORS	2
NAVAL ELECTRONICS	2
OCEANOGRAPHY	2
MARITIME SECURITY	2
NAVAL ARCHITECTURE	4
NAVAL POWER PLANTS	2
NAVAL LEADERSHIP	2
NAVAL COMMUNICATIONS	2
NAVAL COMPUTER NETWORK	2
NAVAL CYBER THREATS (RESILIENCE+SECURITY)	4
MILITARY LEADERSHIP C (PHYSICAL TRAINING)	2 + 2
	30

EXTRA WORK	ECTS
NAVAL ARCHITECTURE	2
NAVAL POWER PLANTS	2
MILITARY LEADERSHIP C (PHYSICAL TRAINING)	2
	6

- **List of EQF7 Learning Outcomes**, were deeply discussed and some changes have been made and **approved** by LoD Members.

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APPENDIX C includes the International Naval Semester discussed and approved Learning Outcomes Draft-CH3.

– Workplan

- With reference to the “English Naval Terminology” Module’s Learning Outcomes, a Draft Version will be produced by chairmanship and will be sent to the LoD11 members by the end of June for further approval.
- Upon approval of “English Naval Terminology” Learning Outcome, Modules Descriptions will be produced in Draft version by Chairmanship and shared with LoD 11 Members in order to be discussed and approved formally no later than next 47^o IG & LoD 11 Meeting, actually scheduled in the period 01st-02nd September 2020.
- Poland will have the leadership in Strategic Partnership with reference to Erasmus+ KA2.
- Currently awaiting the new Erasmus regulation 2021-2027, Poland will produce a draft version of the Strategic Partnership description to be submitted to the Members who will join it.

This draft version will be sent to all LoD11 members in due time to be properly discussed in order to agree the aims, workflow, Intellectual outputs and to exactly defines responsibilities by participants in leading the Intellectual outputs.

- As communicated by LoD 11 members, these Country will be take part actively to the Strategic Partnership:
Poland: StratP Leader
Bulgaria: Partner
Romania: Partner
Greece: Partner
Portugal: Partner (waiting for final confirmation)
Italy: Partner (to be confirmed)
Spain: Partner (waiting for confirmation)
- Strategic Partnership Agreement will be presented by Poland on the next 02/2021.

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Doc. : Lod 11 – Draft Minutes

Date : 11/06/2020

Origin: LoD 11 Subgroup

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ANNEX A – LIST OF PARTECIPANTS

RANK	FAMILY NAME	FIRST NAME	NATIONALITY	INSTITUTION
Cdr	PERIN	Patrizio	ITALY	ITALIAN NAVAL ACADEMY
LtCdr	MONDINO	Samuele	ITALY	ITALIAN NAVAL ACADEMY
Lt	ARABATZIS	Dimitrios	GREECE	HELLENIC NAVAL ACADEMY
LtCol	BOKUMS	Andis	LATVIA	NATIONAL DEFENCE ACADEMY OF LATVIA
Capt (N) Assoc. Prof.	DIMITROV	Nedko	BULGARIA	“NIKOLA VAPTSAROV” NAVAL ACADEMY
LtCdr	FERNÁNDEZ QUIÑONES	Alberto	SPAIN	ESCUELA NAVAL MILITAR
PhD	GÓMEZ-PÉREZ	Paula	SPAIN	ESCUELA NAVAL MILITAR –VIGO UNIVERSITY
Ass Prof	KALLIGEROS	Stamatios	GREECE	HELLENIC NAVAL ACADEMY
LtCdr	KAVOUSANOS	Christos	GREECE	HELLENIC NAVAL ACADEMY
Col. Assoc. Prof. PhD	POPA	Catalin	ROMANIA	“MIRCEA CEL BATRAN” NAVAL ACADEMY
LtCdr Assoc. Prof. PhD	RISTEA	Marian	ROMANIA	“MIRCEA CEL BATRAN” NAVAL ACADEMY
Prof. PhD	TEODORO	Maria Filomena	PORTUGAL	PORTUGUESE ESCOLA NAVAL
Capt Assoc. Prof. PhD	TOMA	Alecu	ROMANIA	“MIRCEA CEL BATRAN” NAVAL ACADEMY
MSc	WYSOCKA	Monika	POLAND	POLISH NAVAL ACADEMY

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ANNEX B – MEETING AGENDA

1. 46^o IG MEETING –Initial Meeting VTC (02nd June 2020)

All main topics discussed during the 46^o Initial Meeting on the 2nd June will be passed to LoD11 members:

- Update on all lines of development (LoDs):
 - LoD 5** – Legal framework (adoption of the legal framework from Lithuania);
 - LoD 6** – National implementation of the strategic communication program:
 - EUMACS 2020 update
 - EUMACS 2021 update
 - LoD 8** – Common modules/evaluations and offers
 - TMA – International Winter Semester update
 - ITNA – International Fall Semester update
 - ERASMUS+ Virtual Exchange opportunity;
 - Virtual Mobility opportunity;
 - LoD 9** – Future projects - New LoD 9 chairmanship candidacy proposal.
 - LoD 11** – International Naval Semester (INS) - New LoD 11 chairmanship candidacy proposal.
 - LoD 14** – Research and Development - New LoD 11 chairmanship candidacy proposal
 - International Medical Semester** - New Medical LoD implementation and chairmanship candidacy proposal.
- 5th CSDP Olympiad - Update on the Event due to COVID-19 evolution.
- IMAF 2020 - Update on the Event due to COVID-19 evolution.
- WORKPLAN - 47th IG Meeting proposal.

2. ITNA Lt.CDR Samuele MONDINO candidacy

3. Common modules/evaluations and offers

ITNA IFS 2020 Confirmation – last date for registration postponed to 31th of July 2020.

4. General Annual Report on ESDC Activities (GAREA)

Format Excel-files availability, compilation instruction and transmission date.

5. International Naval Semester

- Point of Situation;
- Learning Outcomes Check and approval;
- English Naval Terminology Module Learning Outcome definition;
- Workplan.

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ANNEX C – INS EQF7 LEARNING OUTCOMES (DRAFT – CH3)

KNOWLEDGE	SKILLS	COMPETENCE
NAVAL LEADERSHIP		
<ul style="list-style-type: none"> Knowledge on Self and Team leadership. Developing professional communication abilities, both orally and in writing, including negotiation and mediation techniques, and the necessary terminologies allowing him/her to express opinion, arguments, orders and feedbacks in an appropriate manner. 	<ul style="list-style-type: none"> Carries out tasks in accordance with specified objectives, being integrated in a work group and allocates specific tasks to subordinate levels using communication and dialog, co-operation, positive thinking and mutual respect and using feedback to improve personal activity. Develops interpersonal communication skills and cultural open mindedness within a group in situations of work or in an external and complex environment (transmitting opinions, orders, feedbacks, etc.) 	<ul style="list-style-type: none"> Demonstrates ability to optimize human potential like steadiness, determination, work anticipation, organization, sense of liability and integrates gender-awareness in his/her decisions. Assumes responsibilities of the leader, based on modern means of Leadership in complex military operations Communicate and interact effectively in an international environment.
POWER PLANTS		
<ul style="list-style-type: none"> Knowledge of Fluid and Gas Dynamics. Draw layouts of operation within the electric circuit. Envision distribution of electricity and management of individual power systems high and low voltage. Provide load distribution in the ship's power network. Discern and describe the processes, elements and performance of marine propulsion systems. Analyse and describe the function of system pipeline and equipment necessary for safe navigation. 	<ul style="list-style-type: none"> Ability to manage different types of engines, propellers (F.P. – C.P.P.). Ability to calculate engines fuel consumption per hour for different speeds. Ability to manage the connecting systems (shaft, gearbox, clutch). Ability to understand the effects of Marpol Annex VI about the performance of the propulsion plant. Ability to be the energy manager for the electrical network. 	<ul style="list-style-type: none"> Manage propulsion plants in different scenarios. Manage propulsion plants to obtain the best performance in relation with the mission.

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KNOWLEDGE	SKILLS	COMPETENCE
COMPUTER NETWORK		
<ul style="list-style-type: none"> • Knowledge of the data representation and storage, data processing, computer architecture, operating systems, networks, internet. • Carry out training on the application context (Operating Systems, Server, Mobile, Firmware and Safety aspects). • Knowledge of Networks and protocols (ISO/OSI model, Focus on Ethernet and IP networks). • Understand the IT application systems like Client Systems, Service Oriented Applications, Databases, Cloud computing. • Understand the OT application systems like Protocols and Architectures, PLC and microcontrollers, Supervisory systems. 	<ul style="list-style-type: none"> • Understand the complex principles, structure and security aspects of communication Networks. • Identify the complex functions such as addressing, routing, and firewalling for IP networks. 	<ul style="list-style-type: none"> • Ability to configure simple and complex IP services. • Ability to define IP rules for firewalls and routers. • Record network traffic with Wireshark.
NAVAL ELECTRONICS		
<ul style="list-style-type: none"> • Acquire the scientific knowledge, necessary for understanding the operating principles of the on-board electronic equipment: <ul style="list-style-type: none"> – Discrete Analog Electronics – Power Electronics – Digital Electronic Circuits – VLSI Circuits via theoretical and laboratory training. 	<ul style="list-style-type: none"> • Have knowledge about electronic devices principles. • Interpret correctly the physic phenomena of static and dynamic electronic devices functionality. • Be able to identify and determine the main parameters and create static characteristics of electronic devices. • Achieve knowledge about electronic circuit projection. 	<ul style="list-style-type: none"> • Ability to understand and analyse electronic circuits making use of different types of amplifiers and active elements. • Ability to correctly understand and analyse the polarization of electronic circuits. • Ability to analyse and understand the behaviour of electronic circuits.
<p>Note: Basic knowledge of digital and analog electronic circuitis is recommended for attendees.</p>		

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KNOWLEDGE	SKILLS	COMPETENCE
NAVAL SENSORS (PREREQ NAVAL ELECTRONIC)		
<ul style="list-style-type: none"> • Understand the principles of radar, radar equipment (transmitters, antennae, receivers, etc.). • Review of Military Radar Applications with practical case studies (Synthetic Aperture Radar, Multistatic radar, Over the Horizon Radar, Phase Array Radar) • Understand radar equations and radar performance with Probabilities of Detection and False Alarm as parameters. • Description and analysis of the operation and performance of military radar systems for detecting, tracking and locking on targets in the aeronautical operational area. • Knowledge of the electronic warfare. • Review of principles and applications of Electro-optical Systems as key sensors in the Aeronautical Warfare. • 6. Knowledge of the electronic warfare in ES,EP and EA Systems 	<ul style="list-style-type: none"> • Recognize the constructive type of equipment and integrated navigation system by various specific criteria. • Describe and identify the parts of integrated bridge systems of the ship. • Interpret and correlate the provided data by the integrated bridge systems. 	<ul style="list-style-type: none"> • Understand different techniques applied to modern sensors. • Ability to evaluate sensors main performances and cost. • Ability to make correct tactical decisions exploiting information from radars and EW systems. • Manage on-board sensors in different warfare and scenarios • Take advantage of the maximum potential of on-board sensors, also in relation to the operational environment.
<p>Note: <i>Basic knowledge on radar and optoelectronic systems is recommended for attendees.</i></p>		

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KNOWLEDGE	SKILLS	COMPETENCE
MARITIME SECURITY AND NCAGS		
<ul style="list-style-type: none"> • Knows the EU and international maritime Security Law. • Knows the main aspects of modern maritime warfare and rules of engagement. • Has a basic knowledge on maritime security theories. • Has a basic understanding of the EU maritime strategy. • Know the naval cooperation and guidance for shipping (NCGS) operations. 	<ul style="list-style-type: none"> • Finds a suitable solution in a complex and potentially dangerous maritime environment, to find a tactical solution to complete the mission. • Has the necessary administrative skills for managing multinational naval incidents. • Manages stress situations, combining on the spot decisions and respect to the maritime law. 	<ul style="list-style-type: none"> • Understands the course of action of the higher command level and takes the necessary initiative to contribute to its success. • Can make decisions in an unpredictable operating naval environment. • Adapts to various types of conflicts, naval actions based on acquired knowledge.
NAVAL CYBER THREATS - (PREREQ COMPUTER NETWORKS)		
<ul style="list-style-type: none"> • Knowledge of Information security, security of communications and data Encryption, Hashing, Authentication and digital signature, secure network architectures (Wired networks and wireless networks, IT networks, OT networks). • Knowledge of Systems evaluation techniques. Vulnerability and methodologies of attack. • Risk Assessment and Management (IT vs OT, Multidimensional threat, Vulnerability Assessment, Penetration Test). • Network control methods (Logging, monitoring and analysis, IDS and Data Analysis Techniques, near real-time security and communications). • Basic knowledge of cyber-attacks: malwares, information-based attacks and their attacking methods. • Understand the complex cyber security. • Understand the principles of international/national cyber security strategies. 	<ul style="list-style-type: none"> • Recognize threats for confidentiality, integrity and availability in IT and OT systems. • Identify risks for IT/OT networks and common applications. • Understand principles on service/business continuity and recovery plans. • Identify the cyber threats. • Describe the cyber-attacks: fundamentals of malwares, information-based attacks and their attacking methods. • Identify the task and tools to improve of personal and organizational cyber security. 	<ul style="list-style-type: none"> • Ability to use secure communications such as SSL and tools for digital signature and encryption. • Ability to identify Vulnerability on a common source Database (CVE). • Ability to evaluate Risk Assessments and VA&PT reports. • Ability to read and understand incident reports. Ability to realize the cyber threats. • Ability to set up cyber security defences. • Consider the possibilities to develop cyber security capabilities. • Ability to manage Naval networks.

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KNOWLEDGE	SKILLS	COMPETENCE
OCEANOGRAPHY		
<ul style="list-style-type: none"> • Knowledge of the main topics of general and military oceanography. • Understand the Oceanographic Weather Organization (METOC) within NATO. 	<ul style="list-style-type: none"> • Enhancing capabilities in navigation, hydrography and ship manoeuvring at the operational level; • Planning route, executing navigational watch in safe conditions and ship management in order to ensure a good seaworthiness of the ship, even the ship is alone or in a task group or task force. 	<ul style="list-style-type: none"> • Collect and manipulate oceanic, atmospheric, and geospatial data sets and rigorously analyse and interpret observational data, in situ experimental data, and model results. • Analyse and interpret flow of operational METOC data, in naval military operations.
NAVAL ARCHITECTURE		
<ul style="list-style-type: none"> • Knowledge of geometry, static and dynamics law of the ship, necessary to face the problems connected with the buoyancy, the stability, the resistance to advancement and the behaviour of the ship. 	<ul style="list-style-type: none"> • Apply correctly the studied topics about ship geometry, ship forms, ship buoyancy, intact and damaged ship stability. • Recognise and describe shipbuilding elements and the main ship building methods. • Describe special ship features of shipbuilding and operation. • Understand and analyse the ship’s hull longitudinal strength. • Operate safely the transport vessels while loading or unloading cargo. • Use ship’s documents and diagrams referring to hydrodynamics and ship stability. • Understand and correctly apply seakeeping concept and principles. 	<ul style="list-style-type: none"> • Ability to evaluate variation of stability caused by changing boarding cargo or flooding. • Ability to analyse effect of the trim about the ship’s stability.
<p>Note: Knowledge of basic physics and basic mathematics is recommended for attendees.</p>		

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KNOWLEDGE	SKILLS	COMPETENCE
NAVAL COMMUNICATIONS		
<ul style="list-style-type: none"> • Knowledge of characteristics of radio-communication systems and devices. • Understand electromagnetic wave phenomena, propagation and attenuation. • Knowledge of free-space propagation. • Understand the principles of modulation and satellite communications. • Satellite systems for telecommunications, navigation, remote sensing and maritime security systems are examined, orbital mechanics and link budgets of GEO, MEO and LEO Satellites. • Basic knowledge of the GMDSS systems. 	<ul style="list-style-type: none"> • Achieve knowledge about maritime communications, electromagnetic waves propagation, communications types and modulation. • Knowing how to organize a frequency plan taking into consideration the skills and restrictions of naval training. • Know the best propagation methodologies depending on the time of day and the frequency bands used. • Know the principles of satellite communications and the associated multiple access techniques to the satellite resource. • Achieve GMDSS knowledge according to Radio Legislation and subsystems technique specifications. 	<ul style="list-style-type: none"> • Recognize the main communication problems, solving them. • Prepare the naval force communication plan. • Transmit and receive correct and in time information, using GMDSS subsystems and equipment in accordance to Radio Legislation and other conventions and international regulations (SOLAS, STCW, etc.).
MILITARY LEADERSHIP C (PHYSICAL TRAINING)		
<ul style="list-style-type: none"> • Knows the main aspects of general and specific sports education and is subsequently able to organize physical training sessions for subordinated personnel. • Has a basic knowledge on maintenance of physical fitness and how to pass this knowledge theoretically and practically to subordinated personnel as a leader. • Knows the techniques to prepare and conduct physical training sessions. • Knows the basic methods of prevention of injuries and overload damages. 	<ul style="list-style-type: none"> • Is capable of managing physical training sessions using different methods of training. • Has the necessary organizational and administrative skills for managing physical training mainly for fitness military personnel needs. • Is able to lead a group during physical training. 	<ul style="list-style-type: none"> • Is capable of leading physical training sessions. • Assumes responsibilities of the leader for physical training, based on modern means of training methods. • Maintains and develops the physical fitness that is required for enduring situations a military leader must face.

Common Module

Non Common Module