

46th Meeting of the Implementation Group for the European Initiative for the Exchange of Young Officers Inspired by Erasmus (Emilyo) LoD-13 Meeting – International Technical Semester (VTC) 10 June 2020 (13:00-16:00) Draft minutes

1. Participants

The LoD-13 Session of the 46th IG Meeting of the European Initiative for Exchange of Young Officers Inspired by Erasmus was held on 10th of June 2020, 13:00-16:00 (Brussels time) by VTC. There were 11 participants from 6 academies (5 countries).

Institution	Country	Participants
Military University of Technology, Warsaw	Poland	3
Military Technical Academy „Ferdinand I”, Bucharest	Romania	2
Hellenic Air Force Academy, Dekelia, Attica	Greece	2
Bulgarian Air Force Academy, Dolna Mitropolia	Bulgaria	2
French Air Force Academy, Salon-de-Provence	France	1
”Mircea cel Batrân” Naval Academy, Constanța	Romania	1
Total	5	11

The LoD-13 Chairperson welcomed the new members of the LoD13, the representatives of the Bulgarian Air Force Academy, Dolna Mitropolia (Bulgaria) and of the ”Mircea cel Batrân” Naval Academy, Constanța (Romania), and also all the participants at the LoD13 meeting.

2. Agenda

The LoD-13 Chairperson proposed the following agenda:

- a) *Updates on lines of development (LoDs) including the following items:*
 - *LoD 4. IT Platform*
 - *LoD 5. Legal Framework*
 - *LoD 6. National Implementation of the Strategic Communication*
 - *LoD7. Financing the Initiative*
 - *LoD 8. Common Modules*
 - *LoD 9. Future Projects (new chairperson)*
 - *LoD10. Gender Mainstreaming*
 - *LoD11. Naval International Semester (new chairperson)*
 - *LoD12. International Air Force Semester*
 - *New LoD14 Research and Development*
 - *New LoD15 International Medical Semester*
- b) *Updates on the next EMILYO activities:*
 - *CSDP Olympiad*
 - *The 47th IG Meeting*
 - *EUMACS 2020*
 - *The iMAF 2020 and the 48th IG Meeting*
 - *GAREA Statistics*
- c) *Progress of the International Technical Semester Project*
- d) *Technologies in Cybersecurity Module*
- e) *Reports on Exchanges Conducted since the Last Meeting and New Possibilities for Exchanges*

The participants at the LoD13 session of the 46th IG Meeting adopted the proposed agenda.

3. Updates on lines of development (LoDs)

The LoD13 chairperson presented the initial meeting minute of the 46th IG Meeting held on 02th of June 2020 by VTC. During the meeting, the Implementation Group (IG) chair was also present and he highlighted important aspects discussed during the initial meeting.

a) LoD 4. IT Platform

The LoD13 chairperson informed the LoD13 members that the LoD4 session was organized on 09th June 2020. Information about LoD4 progress will be available after this meeting.

b) LoD 5. Legal Framework

The LoD13 chairperson announced the adoption of the legal framework from Lithuania. He transmitted to the LoD13 members the IG chair message about the importance of legal framework.

c) LoD 6. National Implementation of the Strategic Communication

The LoD13 chairperson and the IG chair informed the LoD13 members about 2020 and 2021 editions of EUMACS:

- the EUMACS 2020 will be held in the face-to-face format at Helmut Schmidt University of the Bundeswehr in Hamburg from 29-31 October 2020;
- the EUMACS 2021 will take place in Lisbon on the premises of the Portuguese Military Academy. New information will be available during the 47th IG Meeting.

d) LoD7. Financing the Initiative

The LoD13 chairperson informed the LoD13 members that the LoD7 session is organized on 10th June 2020 together with LoD9 session. More information about LoD7&9 progresses will be available after this meeting.

e) LoD 8. Common modules

The LoD13 chairperson informed the LoD13 members about the following activities proposed by Lt.col. Spinello Enrico:

➤ **ERASMUS+ Virtual Exchange**

A new European Commission project (2018-2020 pilot programme) aims to expand the reach and scope of the Erasmus+ programme through virtual exchanges. A 'virtual exchange' is defined as a technology-enabled, facilitated, people-to-people education programme sustained over a given period. The project is aimed at young people (18-30), and the virtual exchange format distinguishes itself from other forms of online learning in several ways:

- *people-to-people interaction and dialogue;*
- *participants experiencing how to communicate and collaborate with their peers;*
- *soft skills (intercultural awareness, media and digital literacy, teamwork, etc.) are included in the learning goals or outcomes;*
- *learner-led concept*

Training materials for teachers and staff and other information are available on the portal: www.europa.eu/youth/erasmusvirtual.

➤ **EDUROAM**

- Eduroam (<https://www.eduroam.org/>) is an association that provides Wi-Fi access and other services to universities and research centres in the EU and worldwide.

- At national level, every EU MS has created a consortium to which all universities can be affiliated as members, meaning that students, teachers and staff can access free Wi-Fi provided locally by other partners when they are abroad.

- If an academy wish to apply to become a new member, is encouraged to contact the national consortium (if there is one). The University of Turin is part of this consortium.

➤ **Virtual Mobility**

The University of Turin, in cooperation with the IT Army Education and Training Command and School of Applied Military Studies, has opened up a project to all partner universities of the Emilyo programme (BOEIs) during COVID-19 crisis. It provides free online university courses, all of which are part of the university's graduate and undergraduate programmes and have been designed to encourage internationalisation processes. Courses can be freely accessed by anyone, using any type of device. Courses are self-paced. For those who intend to acquire ECTS credits, the final exam can be taken using a distance e-learning functionality. The programme dedicated to the field of security and defence is as follows:

- *History of European Integration, 6 ECTS*
- *International Law, 6 ECTS*
- *Military Sociology and Leadership, 6 or 9 ECTS*
- *Mathematical Modelling, 6 ECTS*

The representative of the Military University of Technology of Warsaw explained to the LoD13 members that his academy signed a bilateral agreement with University of Turin regarding this course that allow 10 students from the academy to attend this activity.

➤ **Upcoming offers**

Some upcoming offers were uploaded on EMILYO webpage by AT and IT. The residential phase will only take place if the COVID-19 situation allows. A decision will be made before the deadline for registration

f) LoD 9. Future projects

The LoD13 chairperson informed the LoD13 members that the current LoD9 chair, Lt.col. Bielewicz Marcin, PhD, from Military University of Land Forces, Wroclaw (MULF) had to leave the IG. The IG chair informed the LoD13 group about a new nomination received from MULF for the position of LoD9 chairperson: **Prof. Marta Wincewicz-Bosy**.

The LoD13 members agreed with that nomination.

g) LoD10. Gender Mainstreaming

The LoD13 chairperson informed the LoD13 members that the LoD10 session is organized on 11th June 2020. More information about LoD10 progress will be available after this meeting.

h) LoD11. Naval International Semester

The LoD13 chairperson informed the LoD13 members that the current LoD11 chair, LtCdr Daniele D'ALESSANDRO, from Italian Naval Academy had to leave the IG. The Italian Naval Academy supports the candidacy of **LtCdr Samuele MONDINO**. The LoD13 members agreed with that nomination. The LoD11 session is organized on 11th June 2020. More information about LoD11 progress will be available after this meeting.

i) LoD12. Air Force International Semester

The LoD13 chairperson informed the LoD13 members that the LoD12 session is organized on 09th June 2020. A consortium of academies applied for an Erasmus+ KA2 project for financing the organization of the Air Force International Semester. More information about LoD12 progress will be available after this meeting.

j) New LoD14 Research and Development

The Hellenic Air Force Academy nominated Associated Professor Ioannis TEMPLALEXIS as the chair of the R&D LoD. The LoD13 members agreed with that nomination. A discussion took place regarding the foundation of the Research and Development LoD. Assoc. Professor Templalexis mentioned that a presentation describing this new initiative is already uploaded since the last IG. He also said that within the following days, a form will be circulated around the IG member in order to register the status of each academy regarding research activities. This will serve as the starting point for the first LoD meeting which will take place during the next IG meeting.

k) New LoD15 International Medical Semester

The LoD13 informed the group that the Hellenic Military Academy of Combat Support Officers (HMACSO) expressed its intention to lead the International Medical Semester LoD, and will therefore nominate a chair in due course, in order to be able to launch the new LoD at the September IG meeting.

4. Updates on the next EMILYO activities

The LoD13 chairperson presented information about the next EMILYO activities discussed during the initial meeting minute of the 46th IG Meeting held on 02th of June 2020 by VTC.

a) CSDP Olympiad

In response to the preventive measures taken worldwide to intercept the spread of COVID-19, the IG, in close cooperation with Croatian Defence Academy (CDA), decided to postpone this event to early spring 2021 (8-12 March). Details are available at http://www.emilyo.eu/olympiad_csdp. The IG will not accept new participants, but those already accepted may participate, even if they have already graduated. The new edition will be organized in 2022, organized by French academies or by Czech Republic academy; a decision will be taken during the next IG meeting.

b) The 47th IG Meeting

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 are available at <http://www.emilyo.eu/node/878>. Decision on whether the IG meeting will be conducted face-to-face or as a VTC will be made by the end of June at the latest.

c) EUMACS 2020

Helmut Schmidt University of the Bundeswehr in Hamburg confirmed that the EUMACS 2020 will be held in the face-to-face format in Hamburg from 29-31 October 2020. Letters of invitation for the rectors/commandants will be available soon.

d) The iMAF 2020 and the 48th IG Meeting

The event was postponed due to the confinement measures put in place to prevent the spread of COVID-19. 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. New period: 30 November-4 December 2020. More information will be available during the next IG Meeting.

e) GAREA Statistics

All the academies, members of the EMILYO Implementation Group have to fill the GAREA forms available on the EMILYO website, concerning the statistics of the students/cadets mobilities ([Country Institution Incoming Students Statistics Study Year 2019_2020](#)) or concerning the statistics of the staff mobilities ([Country Institution Incoming Students Statistics Study Year 2019_2020](#)). The deadline is 15th of July 2020.

5. Progress of the International Technical Semester Project

- A consortium of academies (Military Technical Academy "Ferdinand I" , Bucharest, Romania (applicant organization), Military University of Technology, Warsaw, Poland, the Faculty of Artillery, Air Defence and Communication and Information System from Shumen of "Vasil Levski" National Military University Bulgaria, Hellenic Air Force Academy, Dekelia, Attica, Greece and Air Force Academy Salon de Provence, France) applied for an Erasmus+ KA2 project for financing the organization of the *European Common Technical Semester for Defence and Security* (EuCTS_DS).

- The objectives of the EuCTS_DS project are the development, testing and designing of a new modular curriculum for an international technical semester for defence and security, at bachelor level, common at European Union, and also the development of a network of teachers with competences in the field of technical systems for defence and security.
- The main structure of the *European Common Technical Semester for Defence and Security* would include the following modules: basic engineering; military science; electronic engineering & computer science; mechanical and aerospace engineering; interdisciplinary scientific project.
- The EuCTS_DS project will consist in 6 intellectual outputs (one/each partner institution, two/leader organization), 5 learning/teaching activities for testing the international technical semester components (one activity/each partner institution), 5 transnational meetings (one/each partner institution) and 2 multiplier events.
- The main activities of the project are organized in 9 work packages: *WP1 Project management and implementation* (planning, implementation, evaluation and dissemination activities, under the coordination of MTA Bucharest, based on a general work plan and action plans agreed during meetings and phone/video conferences or e-mail communication); *WP2 - Professional Network in the Field of Technical Systems for Defence and Security* (developed professional networks of teachers and researchers for basic engineering, military science for engineers, mechanical and aerospace engineering, electronic and computer science engineering, resulting finally a pool of lecturer); *WP3 - International Technical Semester Curriculum Development* (curriculum with common subjects at EU in the field of technical systems for defence and security); *WP4 - International Technical Semester Subjects Description* (detailed description for each subject included in the curriculum); *WP5 - Preparation of Education Materials* (course support and applications prepared to be used during the learning/teaching activities in the frame of the international semester); *WP6 - Interdisciplinary Scientific Project Preparation* (teaching activity included in the international semester using the project based learning methodology, assuring the competencies in different engineering branches); *WP7 - E-learning Platform* (modern tool used to share learning materials and to support the teaching/learning activities in the international semester); *WP8 - Teaching/Learning Activities for Testing the International Technical Semester* (Intensive Study Programmes organized in order to test the curriculum, subject description, learning materials and e-learning platform prepared for the international semester); *WP9 - Impact and Dissemination* (dissemination activities organized to share the project results, including two multiplier events).
- The EuCTS_DS application form for Erasmus+ KA2 project was submitted by Military Technical Academy “Ferdinand I” at Romanian Erasmus+ National Agency in order to be evaluated. At Romanian Erasmus+ National Agency level there are 48 application forms submitted, and there are financial funds for about 14 projects. The estimated date for the evaluation results is august 2020.
- In the case of EuCTS_DS acceptance, the project will start in December 2020 and will end in November 2022. Before the beginning of the project, the consortium representatives will work on the *Design and Development of the EuCTS_DS Curriculum*.
- In the case of EuCTS_DS rejection, the LoD13 members will improve the application form taking in consideration also the evaluators recommendations and will apply again in March 2021.

6. Technologies in Cybersecurity Module

- The representatives of Military University of Technologies presented the progress concerning the new common module proposal “*Technologies in Cybersecurity*”.
- The module description was presented to the LoD13 members in order to have feed-back.
- The module will provide specific knowledge for a student of computer science profiling in cyber war and its technical concepts and modelling strategies, software engineering elements required for cybersecurity, reverse engineering techniques, tools for technical forensics and basic elements of cryptology.
- The goals of the module: to discover and understand basic principles of functioning, structure and trouble spots of the cyber security; to be aware of specification and classification of cybersecurity threats, including technologies used in; to deepen knowledge of the practical application of particular technologies in cybersecurity and of the decision making process on selection of appropriate measures of treatment selected cyber threats; to learn about theoretical aspects of cybersecurity technologies, how to use possibilities of IT within the cyber protection systems and forecast future development and trends in cybersecurity.
- The main topics of the module will consist in: theory of cyberwar and infowar; cyberattacks and digital threats; cybersecurity aspects of mobile technologies; artificial intelligence applications; technical cyber forensic; penetration testing; software reverse engineering; introduction to cryptology; methods and tools for decision support; computer simulation tools and methods.
- The evaluation of the students will consist in *Observation* (throughout the Module students will meet with the cybersecurity technologies applications and they will discuss the given topics in the plenary and present teamwork results. During these work students will be evaluated to verify their competences) *Project* (A group project will focus on the basic description of a selected cyber threat. Students will have to select the specific set and describe the general characterization of it, as well as possibilities of application some measures to detect, contain and counteract against given threat. Students will point out main problems related to selected threat. Students can use basic methods of scientific work for realize the task) and a *final test* (written examination at the end of the module).
- The academies members of the IG will express their interest in participating at the “*Technologies in Cybersecurity*” module organization in order to improve the description module. The first module edition will be organized at Military University of Technology Warsaw in 2021.

7. Reports on Exchanges Conducted Since the Last Meeting and New Possibilities for Exchanges

a) Military University of Technology, Warsaw, Poland

- Military University of Technology Warsaw, Poland signed an agreement with University of Turin that allow the MUT cadets to attend the **Virtual Mobility courses** organized by the University of Turin in cooperation with the IT Army Education and Training Command and School of Applied Military Studies;
- **Common Module Advanced Technologies in Borders Surveillance** was postponed for the fall of 2020 due to the COVID-19 outbreak at the Poland and EU level. Decision on whether the module will be organized will be made by the next IG Meeting.
- **Military Multinational Sports and Shooting Games 2020** edition was cancelled due to the COVID-19 outbreak at the Poland and EU level.
- The representatives of the Military University of Technology informed the LoD13 members about an interested activity for LoD13 and LoD14 community, named **European defence industrial development programme: Information day (22 June 2020)**, information can be found by consulting the following link: https://ec.europa.eu/growth/content/european-defence-industrial-development-programme-information-day-0_en.

b) Hellenic Air Force Academy, Dekelia, Attica, Greece

- The 2020 edition of the **Common Module Common Security and Defence Policy** proposed by the Hellenic Air Force Academy was cancelled due to the COVID-19 outbreak at the Greece and EU level. Information about the new edition of this event will be available during the next IG Meeting.

c) French Air Force Academy, Salon-de-Provence, France

- The 2020 edition of the **Common Module Common Security and Defence Policy** proposed by the French Air Force Academy was postponed to the spring of 2021 due to the COVID-19 outbreak at the France and EU level. New information will be available during the next IG Meeting.

d) Military Technical Academy “Ferdinand I” Bucharest, Romania

- The **International Technical Semester Defence and Security** proposed by Military Technical Academy “Ferdinand I” to be organized in the spring of the 2020 was cancelled due to the COVID-19 outbreak at the Romania and EU level. Next edition will be organized in the spring of 2021.
- The **Students’ International Conference “CERC” 2020** proposed by Military Technical Academy “Ferdinand I” to be organized in the spring of the 2020 was postponed to the fall of 2020, due to the COVID-19 outbreak at the Romania and EU level. The 2020 edition of “CERC” will be organized in the period 04-07 November using VTC tools.
- The LoD-13 chairperson informed the LoD-13 members about the possibility to be launched a **supplementary Erasmus+ KA2 call in august-september 2020** dedicated to the **digitalization of higher education and scientific research**. Military Technical Academy “Ferdinand I” is opened to take part in a consortium of the academies in a project proposed for this call.

e) Bulgarian Air Force Academy, Dolna Mitropolia, Bulgaria

- The representatives of the Bulgarian Air Force Academy, Dolna Mitropolia, Bulgaria express the intention to continue the collaboration of the former Bulgarian Aviation Faculty within the LoD13 and to take part in the activities proposed in the technical field. Their proposal concerning the conferences and other activities organized by the Bulgarian academy will be uploaded on the EMILYO website.

f) “Mircea cel Batrân” Naval Academy, Constanța, Romania

- The representative of the “Mircea cel Batrân” Naval Academy, Constanța, Romania express the intention to collaborate with the LoD13 members and to take part in the activities proposed in the technical field. Their proposal concerning the conferences and other activities organized by the Romanian Naval Academy will be uploaded on the EMILYO website.

8. Work plan

- The representatives of the EuCTS_DS consortium will work on the *Design and Development of the EuCTS_DS Curriculum*. The draft of the papers produced will be discussed during the next IG Meeting
- In July-August 2020, when the Romanian Erasmus+ National Agency will publish the Erasmus+KA2 project results for the April 2020 call, the EuCTS_DS representatives will have a VTC meeting;
- The next LoD-13 meeting would take place in September 2020 during the 47th IG Meeting.

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