

Hellenic Air Force Academy, Greece





2nd MULTIPLIER EVENT

European Common Technical Semester for Defence and Security PROJECT NO 2020-1-RO01-KA203-080375

Presentation of the KA2 Project E_UCTS_{DS}



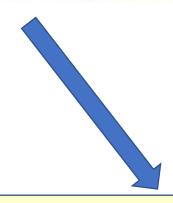




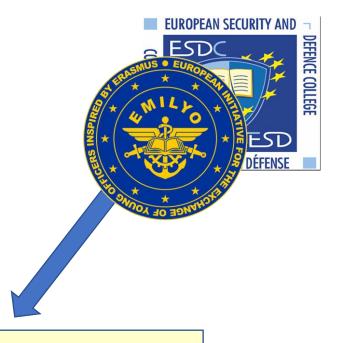




Erasmus+







European Common Technical Semester for Defence and Security PROJECT NO 2020-1-RO01-KA203-080375







WATE OF THE PARTY OF THE PARTY

European Initiative for the Exchange of Young Officers inspired by Erasmus





How it began (Nov. 2008)

→ Declaration of EU MoDs

Establish an Implementation Group (IG) for the EMILYO

Goals: Increase interoperability & "harmonise" EU Basic Officer Education, promote a "European Security and Defence Culture"

Source: Council of the European Union, Council Conclusions on the ESDP, 2903rd External Relations Council Meeting. Brussels. 10th and 11th November, 2008.

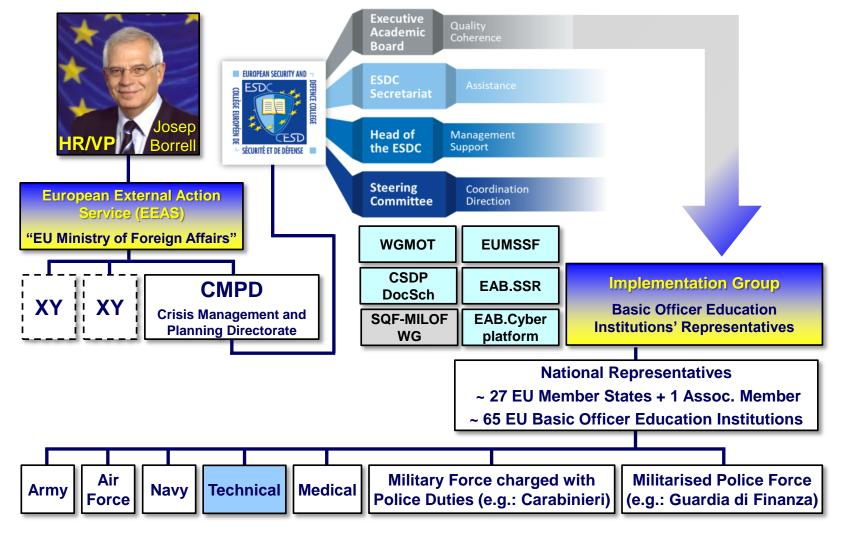








European Initiative for the Exchange of Young Officers inspired by Erasmus











European Initiative for the Exchange of Young Officers inspired by Erasmus

Lines of Development



http://www.emilyo.eu/



No.	LoD Name	Chairperson	BOEI
1	System of Equivalences	(Col Assoc. Prof. GELL Harald, PhD)	AT-TMA
2	Development of Competences	Capt (N) Assoc. Prof. DIMITROV Nedko, PhD	BG-NVNA
3	Development of e-learning	(Col Assoc. Prof. GELL Harald, PhD)	AT-TMA
4	Create an IT-Platform	Assoc. Prof. KARADIMAS Nikolaos V., PhD	GR-HAA
5	(Legal) Framework	Prof. RAGIES Ioannis, PhD	GR-HAA
6	Strategic Communication	(Col Assoc. Prof. GELL Harald, PhD)	AT-TMA
7	Financing the Initiative	Col MACHADO Paulo, MSc	PT-PMA
8	Common Modules	(LtCol SPINELLO Enrico)	IT-SAMS
9	Future Projects	Assoc. Prof. WINCEWICZ-BOSY Marta, PhD	PL-AWL
10	Gender Mainstreaming	Col Assoc. Prof. ATANASOVA-KRASTEVA Nevena, PhD	BG-NDU
11	International Naval Semester	Col Assoc. Prof. POPA Catalin, PhD	RO-RNA
12	International Air Force Semester	Assist. Prof. KARAMPELAS Panagiotis, PhD	GR-HAFA
13	International Technical Semester	Col Prof. Eng. MOLDOVEANU Cristian Emil, PhD	RO-MTA
14	Research & Development	Assoc. Prof. TEMPLALEXIS Ioannis, PhD	GR-HAFA
15	International Medical Semester	frozen	
16	EU Military Academy	(Col Assoc. Prof. GELL Harald, PhD)	AT-TMA
17	Int'l Air Defence Semester	Col Assoc. Prof. GHERMAN Laurian, PhD	RO-HCAFA
18	Language Education & Training	Col (GS) Doc. Ing. HOLCNER Vladan, PhD	CZ-UoD





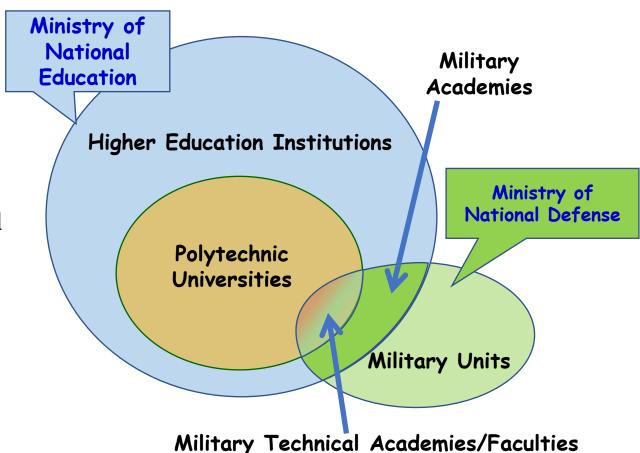




CHALLENGES



- **1.** Military Technical Academies/Faculties have as mission the training of **engineer officers**
- 2. Military Technical Academies/Faculties develop and conduct higher education study programs organized in undergraduate, master and/or PhD studies in a high number of fields and specializations.
- 3. Difficulties to establish common courses for all engineering branches in order to organize an International Technical Semester.











CHALLENGES

Military Technical Academies/Faculties develop and conduct higher education study programs organized in undergraduate, master and/or PhD studies in a high number of fields and specializations:



- Aerospace Engineering;
- Automotive Engineering;
- Military Engineering;
- Civil Engineering;
- Geomatics;
- Electronic Engineering;
- Telecommunication and Information Technology;
- Computers and Information Technology;
- System Engineering, etc.



































- development and designing of a **new modular curriculum** for an **international technical semester for defence and security**, at bachelor level, common at European Union;
- testing a **new modular curriculum** for an **international technical semester for defence and security**, at bachelor level, common at European Union;
- development of a **network of teachers with competences in the field of technical systems** to support the European Common Technical Semester for Defence and Security.











PROJECT PREPARATION

1. Defence Technology Forum 2015 – 2019 Shumen



DTF'2015



DTF'2017

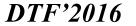


DTF '2018



DTF'2019













PROJECT PREPARATION

2. Bilateral cooperation PL WAT – RO MTA (2017)

















PROJECT PREPARATION

3. Student's International Conference "CERC" 2019



https://www.mta.ro/international/en/cerc/









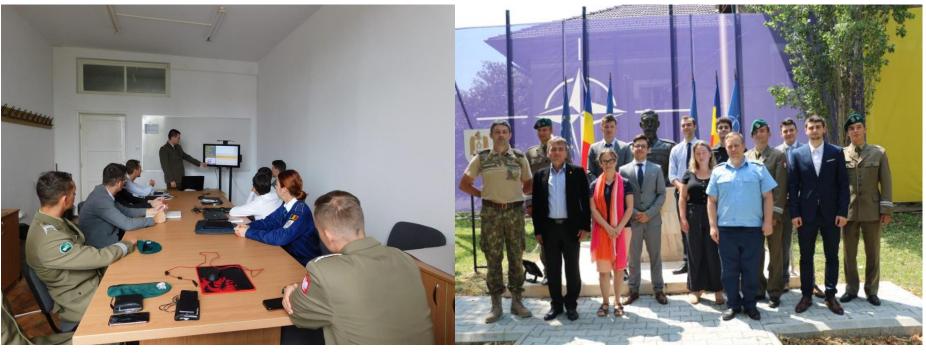




PROJECT PREPARATION

4. International Semester "Defence and Security Technical Systems" 2019





RO MTA
PL WAT
BG NMU
FR UPS













PROJECT PREPARATION

5. LoD13 International Technical Semester - Military Erasmus Initiative



38th IG Meeting Veliko Tarnovo 2018



42nd IG Meeting Wienner Neustadt 2019 iMAF 2019



43rd IG Meeting Brussels 2019 1st Plenary Meeting LoD13



44th IG Meeting Bucharest 2019 2nd Plenary Meeting LoD13



45th IG Meeting Brussels 2020, 3rd Plenary Meeting LoD13

http://www.emilyo.eu/node/1387



European Common Technical Semester for Defence and Security PROJECT NO 2020-1-RO01-KA203-080375







PROJECT PREPARATION

EuCTS_{DS}

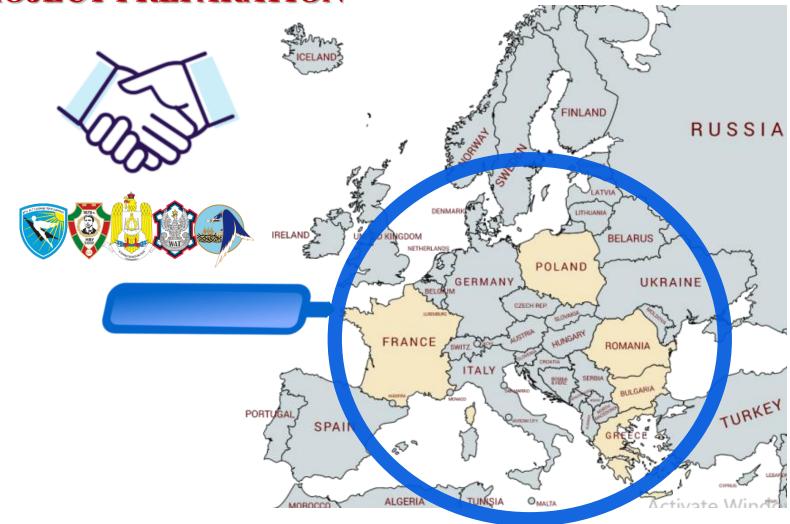
Military Technical Academy "Ferdinand I", Bucharest (MTA Bucharest), Romania

Military University of Technology, Warsaw (WAT Warsaw), Poland

"Vasil Levski" National Military University (NMU Shumen), Bulgaria

Hellenic Air Force Academy, Athens (HAFA Athens), Greece

French Air Force Academy, Salon de Provence (FASFA Salon de Provence), France













Application sent: 23 April 2020

Date for results: 22 September 2020

Referential project number: 2020-1-RO01-KA203-080375

Budget granted for the project: 194.791 EURO

Period of the project: 24 months (01.12.2020 – 30.11.2022 – extended to 31.07.2023)

Number of evaluated projects: 48 Number of financed projects: 17 **Highest score obtained by** the E_uCTS_{DS} project at the evaluation process

	Euros					
Budget items	Coordinator RO MTA	Partner 1 PL WAT	Partner 2 GR HAFA	Partner 3 BG NMU	Partner 4 FR FAFA	TOTAL
Project Management and Implementation	12.000	6.000	6.000	6.000	6.000	36.000
Transnational Project Meetings	1.725	1.725	2.300	1.725	1.725	9.200
Intellectual Outputs	19.513	21.300	17.309	15.443	19.816	93.381
Multiplier Events	10.000	Û	0	10.000	0	20.000
Travel	3.015	3.300	3.300	3.015	3.300	15.930
Individual Support	4.056	4.056	4.056	4.056	4.056	20.280
Total	50.309	36.381	32.965	40.239	34.897	194.791





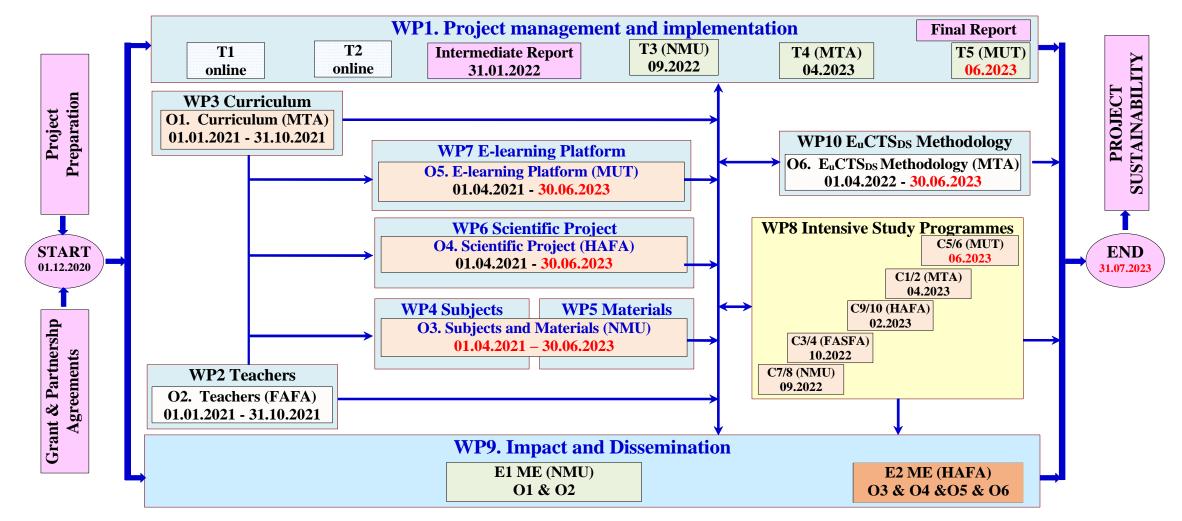




Presentation of the KA2 Project E_UCTS_{DS}



PROJECT









INTELLECTUAL OUTPUTS



O1 Design and Development of the EuCTS_{DS} Curriculum



01.12.2020 30.11.2022

31.07.2022



O6 Guide for the EuCTS_{DS} Implementation



O2 Network of teachers



O3 Subjects Description and Education materials for EuCTS_{DS}







O5 E-learning Platform

O4 Methodology and Guide for the Interdisciplinary Scientific Project











E_UCTS_{DS} Curriculum

Basic Engineering (6 ECTS)
- 2 subjects

Military Science (6 ECTS)
- 2 subjects

Electronic Engineering and Computer Science
(12 ECTS)
- 4 subjects

Mechanical and Aerospace Engineering (12 ECTS)
- 4 subjects

Interdisciplinary Scientific Project (6 ECTS)

Supplementary subjects (4 ECTS) - 2 subjects









E_U**CTS**_{DS} **Curriculum**

No.	Subjects			
1	Applied Informatics – RO MTA	Basic Engineering – RO MTA	3	
2	Applied Automation for Engineering Systems – PL MUT	(6 ECTS)	3	
3	Integrated Weapon Systems – RO MTA	Military Science – FR FASFA	3	
4	Common Security and Defence Policy for Technical Systems - FR FASFA	(6 ECTS)	3	
5a	Computer Networks – BG NMU		3	
6a	Programming Languages – RO MTA	Electronic Engineering and	3	
7a	Signal Processing – GR HAFA	Computer Science – BG NMU (12 ECTS)	3	
8a	Microcontrollers – RO MTA	(12 2013)	3	
5b	Propulsion Systems – GR HAFA		3	
6b	Dynamic of Flight – PL MUT	Mechanical and Aerospace	3	
7b	Mechanics and Material Science – GR HAFA Engineering – PL MUT (12 ECTS)		3	
8b	Computer-Aided-Design and Numerical Analysis – BG NMU	(== =====	3	
9	Interdisciplinary Scientific Project – GR HAFA			
10	Intercultural Communication (Bulgarian/French/Greek/Polish/Romanian)	Supplementary subjects	2	
11	Physical Education and Sports	(4 ECTS)	2	
TOTAL				







LEARNING / TEACHING ACTIVITIES



Intensive Study Programmes "Electronic Engineering and Computer Science"





Intensive Study Programmes "Mechanical and Aerospace Engineering"





Intensive Study Programmes "Interdisciplinary Scientific Project"



Intensive Study Programmes "Basic Engineering"









MULTIPLIER EVENTS





E1 European Forum of Defence and Security Technical Systems 2022







E2 European Forum of Defence and Security Technical Systems 2023









PILOT EDITION: MTA OFFER in the period 27.02 – 24.06.2023

Period	Subject			
27.02 26.02.2022	Applied Informatics		3	
27.02 – 26.03.2023	Applied Automation for Engineering Systems		3	
27.02 .00.04.2022	A. Signal Processing			
27.03 – 09.04.2023	B. Mechanics and Material Science		3	
17.04 - 30.04.2023	Common Security and Defence Policy for Technical Systems			
01.05 14.05.2022	A. Programming Languages		3	
01.05 – 14.05.2023	B. Dynamic of Flight			
1F 0F 20 0F 2022	A. Computer Networks		3	
15.05 – 28.05.2023	B. Propulsion Systems			
20.05 11.06.2022	A. Microcontrollers		3	
29.05 – 11.06.2023	B. Computer-Aided-Design and Numerical Analysis			
12.06 – 26.06.2023	Integrated Weapon Systems		3	
		A. Armament Systems and Military Engineering	6	
27.02 24.06.2022	Scientific Project	B. Aerospace and Transport Engineering		
27.02 – 24.06.2023		C. Computer Sciences and Cyber Security	6	
		E. Electronic and Communication Engineering		
27.02 – 24.06.2023	Intercultural communication		2	
27.02 - 24.00.2023	Physical Education and Sp	orts	2	
		TOTAL		











PILOT EDITION: MTA OFFER in the period 27.02 – 24.06.2023





PILOT EDITION: MTA OFFER in the period 27.02 – 24.06.2023













- The cadets/students will have the chance of gaining experience of working in an international and interdisciplinary environment, having in the same time available the engineering part and the military science component, that is not usually available in a regular study programme that could be followed by students in Erasmus mobilities;
- The teachers will benefit through the exchange of ideas and best practice in the area of technical systems for defence and security and didactical methods:
- The Interdisciplinary Scientific Project will provide to the teachers and students a wider perspective over the field of technical systems for defence and security, and will enhance their skills in the area of didactical and pedagogical methods;
- The implementation of the European Common Technical Semester for Defence and Security in each of the consortium member institutions will increase the internationalisation at home and will lead to the a possible future network of universities, European University for Defence and Security;
- ■The new E_uCTS_{DS} will facilitate creation and development of partnerships in the field of teacher and student mobility, as well as in the field of international scientific research project between the consortium members and other EU and NATO military academies;
- The project will provide experience and new skills in the field of management and coordination of international cooperation projects.





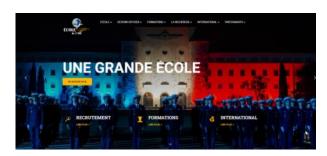






PROJECT PARTNERS

European Common Technical Semester for Defence and Security



FAFA Salon de Provence (FR)



MTA Bucharest (RO)



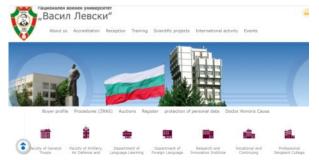
ESDC Brussels (EU)



HAFA Athens (GR)



MUT Warsaw (PL)



NMU Veliko Tarnovo (BG)









