



71st IG MEETING



LoD 13 Session

SCIENCE & TECHNOLOGY EDUCATION

Brussels
8th of September, 2026



1. About participants

2. Debate and approval of CM: Optoelectronic Systems for Defense and Security

3. Debate and approval of CM: Ballistics

4. Common Module IMINT/GEOINT ANALYSIS

5. Digital Mathematics Applied in defence and Security education - DIMAS



LoD 13 SCIENCE & TECHNOLOGY EDUCATION

PARTICIPANTS

22 participants

13 institutions

9 countries





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Optoelectronic Systems for Defence and Security

Annouced partners:

BE-RMA, GR-HAFA, ES-UPCT,

PL-WAT, RO-MTA

**The content CM syllabus
was approved within the
LoD 13 meeting**

Pilot edition – Autumn 2027

Countries Romania	Institution Military Technical Academy “Ferdinand I”	Optoelectronic Systems for Defense and Security	ECTS 3.0
Service ALL	Minimum Qualification of Instructors • Officers or civilian Lecturers: ○ English: Common European Framework of Reference for Languages (CEFR) Level B2 or min. NATO STANAG 6001 Level 3. ○ Expertise on relevant topics. ○ Relevant academic publications.		
Language English			
Prerequisites for international participants • English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2. • At least 1 year of national (military) higher education. • Basic knowledge on technical systems for security and defence • Security clearance: Unclassified information		Goal of the Module • Basic principles of the Optoelectronic Systems; • Module provides foundational and intermediate knowledge of optoelectronic systems used in modern defense and security environments; • Explore the principles of optics, photonics, and electronic integration, followed by practical applications such as imaging, detection, laser-based systems, night-vision technologies, and surveillance solutions.	



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LoD 13 SCIENCE & TECHNOLOGY EDUCATION

Ballistics

Announced partners:

BE-RMA, PL-WAT, RO-MTA

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Pilot edition – Autumn 2027

Countries	Institution		ECTS
Romania	Military Technical Academy “Ferdinand I”	Ballistics (Internal, External, and Terminal)	3.0

Service	Minimum Qualification of Instructors
ALL	• Officers or civilian Lecturers: ○ English: Common European Framework of Reference for Languages (CEFR) Level B2 or min. NATO STANAG 6001 Level 3. ○ Expertise on relevant ballistics topics. ○ Relevant academic publications.
Language	
English	

Prerequisites for international participants	Goal of the Module
• English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2. • At least 1 year of national (military) higher education. • Basic knowledge on technical systems for security and defence • Security clearance: Unclassified information	• Basic principles of the Internal, External, and Terminal Ballistics; • Provide foundational and intermediate knowledge of projectile dynamics, motion parameters, trajectory calculations, and impact phenomena in modern military scenarios; • Explore physical and mathematical models, propellants, trajectory characteristics, aerodynamic forces, and terminal impact mechanics.



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LoD 13 SCIENCE & TECHNOLOGY EDUCATION



DIGITAL MATHEMATICS APPLIED IN DEFENCE AND SECURITY EDUCATION

Until now

01

Developed 20 scenarios

for the activities with students.

02

Tested and validated

the scenarios for implementation during the LTTAs.

03

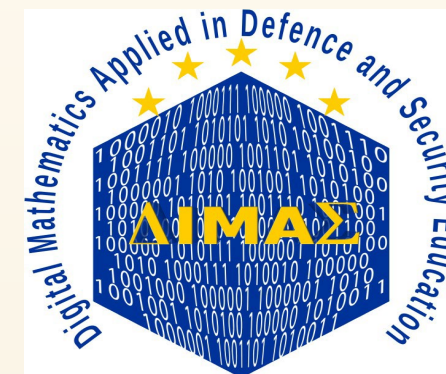
Organised the DIMAS Olympiad

in Digital Mathematics Applied to Defence and Security.

04

Implemented the Pilot Course

on Mathematics-based Scenarios in Defence and Security Education (LTTA 4) for teachers and students.



Next steps

01

Organise
TPM 4

02

Organise the
Multiplier Event



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QUESTIONS?

SUGGESTIONS?

RECOMMENDATIONS?