



Line of Development - 20

Space

AGENDA (71nd IG)

-  LoD Update
-  Train-the-Trainers Workshop
-  Projects and R&D opportunities



Update



CM Implementation



Country	Institution	Common Module	ECTS
GR	Hellenic Army Academy	Space-based ISR, Operations & Situational Awareness (SB ISR & SA)	2.0 (+ 1.0 e-learning)
Service	Minimum Qualification for Lecturers		
ALL	- Fully qualified Geospatial Engineer Officer. - Outstanding knowledge of Earth Observation and Remote Sensing Science Space Meteorology and/or Space Operations. - PhD Engineering, Mathematics and/or Physics applied to Space Operation. - Advanced experience in Geo-Intelligence - Specialists/Teaching experience in the field of Geospatial Engineering, Earth Observation or Geospatial Support. - English: Common European Framework of Reference for Languages (CEFR) Level B2 or NATO STANAG Level 3.		
Language	Competence area - Military technician		
English	Learning area - C4ISR systems & Space		
	Organisation level - Single service		
SQF MILOF			
Prerequisites for international participants		Goal of the Module	
- English: Common European Framework of Reference for Languages (CEFR) Level B2 or NATO STANAG Level 3. - Basic knowledge of IT (ECDL) or similar knowledge.		- Familiarize with the capabilities provided by the Copernicus Earth Observation SESA (Support to EU External and Security Actions) component - Exploit the SESA capabilities for ISR - Exploit the SESA capabilities for Situational Awareness - Acquire basic knowledge in space operations, orbital mechanics, space meteorology and space debris.	
Learning outcomes	Knowledge	- Master remote sensing and data processing by learning remote sensing principles and data processing techniques for ISR and SA. - Understand space-based systems and operations by gaining knowledge of satellite types, orbits, payloads and space operations.	
	Skills	- Apply satellite and ISR data for intelligence and operational decision-making by applying imagery, interpreting multi-source data, and using satellite information in operational scenarios. - Develop technical skills in geospatial analysis and orbital mechanics by applying image processing, using GEOINT tools and orbital elements. - Develop analytical and operational decision-making skills by critically analysing ISR and SA data, recognizing threats, and understanding space-based intelligence and operational capabilities. - Collaborate effectively in intelligence analysis by working in teams to evaluate ISR intelligence, space operations and formulate responses.	
	R & A		
Verification of learning outcomes:			
Observation: Throughout the module, students will discuss topics within syndicates and in the plenary. During this work, students are evaluated to verify their performance. Evaluation: Group presentations of given topics. Test: Written exam (multiple choice) at the end of the Module.			



Module details			
Main Topic	Residential LU (WH)	E-learning LU (WH)	Details
Introduction to Space-Based ISR & SA	4 (3)	2 (1.5)	- Overview of ISR (Intelligence, Surveillance, and Reconnaissance) and SA (Situational Awareness) - History and evolution of space-based ISR & SA - Key advantages and challenges - Types of satellites used for ISR (e.g., optical, radar, signals intelligence) and SA - Satellite sensors and payloads - Space Operations Basic Parameters
Fundamentals of Remote Sensing	3 (2.25)	2 (1.5)	- Basics of optical, radar, and hyperspectral imaging - Resolution (spatial, temporal, spectral) - Image acquisition and pre-processing
Image Processing for ISR	4 (3) (inc. 2 (1.5) SW)	3 (2.25)	- Image processing techniques - Practical session on image processing techniques
Image Analysis for ISR	3 (2.25) (inc. 2 (1.5) SW)	3 (2.25)	- Operational requirements for ISR and SA addressed by space-based assets - Practical session on image interpretation and analysis
Space-Based Communications, Navigation, Positioning	2 (1.5)	2 (1.5)	- Role of satellites in military communications - Secure data transmission and encryption - Satellite-ground station interaction - GNSS systems in ISR - Role in precision targeting and navigation - Jamming and spoofing threats
Threats to Space-Based Assets	2 (1.5)	2 (1.5)	- Space Surveillance and Tracking / Space Situational Awareness (SST/SSA) - Anti-satellite (ASAT) weapons and electronic warfare - Space debris - Cyber-threats to space assets
Applications of ISR and Situational Awareness in Military Operations	3 (2.25) (inc. 2 (1.5) SW)		- ISR in border security, battlefield awareness, and maritime surveillance - Tactical and operational applications of ISR data - Integration of ISR data with command and control (C2) systems
Demonstration and Scenario-Based Training	5 (3.75) (inc. 4 (3) SW)		Group exercises using open-source satellite imagery
Exams	2 (1.5)	1 (0.75)	- Final Exam - Self-evaluation tests
Total lectures and e-learning lessons	28 (21) (18 (13.5) + 10 (7.5) SW)	15 (11.25)	A minimum of 10% of the regular CM and is required in order to have a minimum of common knowledge before the residential phase. In addition, in the case of a 3 ECTS SB-ISR-SA CM Version, it is required that 1/3 of lectures are via e-learning. In both cases, the selection of e-learning topics is up to the Course Director mainly by using the e-learning materials available on the ESDC platform or provided by the institute.
Self-Studies	22 (16.5)	10 (7.5)	- Self-studies, pre-readings & self-evaluation tests. - E-learning may also be counted as self-studies.
Total	50 (2 ECTS)	25 (1ECTS)	The detailed amount of hours for the respective main topic is up to the course director according to national law or the home institution's rules



List of Abbreviations:	
AKU	Autonomous Knowledge Unit
ASAT	Anti-Satellite
B2	Common Reference Levels
C2	Command and Control
C4	Command, Control, Communication, and Computers
CEFR	Common European Framework of Reference for Languages
CM	Common Module
EDL	European Computer Driving Licence
EU	European Union
ECTS	European Credit Transfer and Accumulation System
GEOINT	Geospatial Intelligence
GR	Greece
IG	Implementation Group
ISR	Intelligence, Surveillance and Reconnaissance
IT	Information Technology
NATO	North Atlantic Treaty Organisation
NF	Normalized Form
SA	Situational Awareness
SB	Space-Based
SESA	Support to EU External and Security Actions
SO	Space Operations
SSA	Space Situational Awareness
SST	Space Surveillance and Tracking
STANAG	Standardization Agreement
SW	Syndicate Work
WH	Working Hour

Update

No	TOPIC	ACADEMIC OFFERING
1	Overview of ISR (Intelligence, Surveillance, and Reconnaissance) and SA (Situational Awareness)	PAFU, EMFA, BAFA
2	History and evolution of space-based ISR & SA	EMFA, BAFA
3	Key advantages and challenges	PAFU, EMFA, BAFA
4	Types of satellites used for ISR (e.g., optical, radar, signals intelligence) and SA	EMFA, BAFA
5	Satellite sensors and payloads	BAFA
6	Space Operations Basic Parameters.	BAFA
7	Basics of optical, radar, and hyperspectral imaging	HAFA
8	Resolution (spatial, temporal, spectral)	HAA
9	Image acquisition and pre-processing	HAA
10	Image processing techniques	HAA
11	Practical session on image processing techniques	HAA
12	Operational requirements for ISR and SA addressed by space-based assets	HAA
13	Practical session on image interpretation and analysis	HAA
14	Role of satellites in military communications	HAFA, BAFA
15	Secure data transmission and encryption	BAFA
16	Satellite-ground station interaction	HAFA, , BAFA
17	GNSS systems in ISR	HAFA
18	Role in precision targeting and navigation	HAFA
19	Jamming and spoofing threats	FASFA
20	Space Surveillance and Tracking / Space Situational Awareness (SST/SSA)	EMFA
21	Anti-satellite (ASAT) weapons and electronic warfare	PAFU
22	Space debris	PAFU, EMFA
23	Cyber-threats to space assets	BAFA, FASFA
24	ISR in border security, battlefield awareness, and maritime surveillance	HAA
25	Tactical and operational applications of ISR data	HAA
26	Integration of ISR data with command and control (C2) systems	HAA
27	Group exercises using open-source satellite imagery	HAA, BAFA

Academic Engagement

Train the trainers workshop

Candidate Dates

🌐 11 - 15 Jan

🌐 18 - 22 Jan

🌐 **25 - 29 Jan**

Topics / Activities

🌐 EUSPA

🌐 EDA CapTech Space

🌐 Industry

🌐 Academia

🌐 Trainers

🌐 Hellenic MoD Satellite Center

🌐 ????

KA2 / EDF Work Program 2026

ANNEX 3 2026 call topics description

Table of contents

1.	Content of the document	3
2.	ACTIONS IMPLEMENTED THROUGH CALLS FOR PROPOSALS	3
2.1.	Call EDF-2026-RA	3
2.1.1.	EDF-2026-RA-MCBRN-DST: CBRN decontamination systems and technologies	3
2.1.2.	EDF-2026-RA-SENS-MSDT: Multidomain sensors demonstrator and test	10
2.1.3.	EDF-2026-RA-CYBER-QSTN: Quantum secured tactical networks	15
2.1.4.	EDF-2026-RA-AIR-A4R: Autonomous and automatic air-to-air Refuelling	22
2.1.5.	EDF-2026-RA-PROTMOB-FMLA: Future multirole light aircraft	26
2.1.6.	EDF-2026-RA-UWW-FUWN: Development and validation of models predicting flow-related underwater noise	32
2.1.7.	EDF-2026-RA-SIMTRAIN-MSAI: Modelling & simulation-supported AI framework for military decision-making and training	36
2.2.	Call EDF-2026-LS-RA-SI	45
2.2.1.	EDF-2026-LS-RA-SI-ENERENV-NTFE: New turbofan engine	45
2.2.2.	EDF-2026-LS-RA-SI-UWW-CSBI: Layered critical seabed infrastructure protection	51
2.3.	Call EDF-2026-LS-RA-CHALLENGE	57
2.3.1.	EDF-2026-LS-RA-CHALLENGE-DIGIT-AISAP: AI-based tactical situational awareness using swarms of small robots and drones – Participation in a technological challenge	58
2.3.2.	EDF-2026-LS-RA-CHALLENGE-DIGIT-AISAO: AI-based tactical situational awareness using swarms of small robots and drones – Organisation of a technological challenge	62
2.4.	Call EDF-2026-LS-DIS-RA-SMERO	66
2.4.1.	EDF-2026-LS-DIS-RA-SMERO-NT: Non-thematic research actions by SMEs and research	

[Home](#) > EDF Work Programme 2026

EDF Work Programme 2026

GENERAL PUBLICATIONS

Page contents

[Details](#)
[Files](#)

Details

Publication date 17 December 2025
Author [Directorate-General for Defence Industry and Space](#)
Type of documents [Work programme](#) 
EU Defence Industry [EDF](#)

Files



4 FEBRUARY 2026
Work Programme 2026

English

[Review](#) [Download](#)



LoD 20 (Space) - Photo





Line of Development - 20

Space
