







International Air Force Semester

1 or 2

Doc.: Date: January 4, 2021 Origin: HAFA

Country	Institution	Module Description	ECTS
GR	Hellenic Air Force Academy	Space Applications for Security and Defence	4.0

Service	Minimum Qualification for Lecturers		
AF	Officers:		
Ai	 English: Common European Framework of Reference for Languages (CEFR) Level B2 or NATO STANAG Level 3. 		
	Thorough knowledge in space issues		
	 Thorough knowledge of Common Security and Defence Policy 		
Language	Civilian Lecturers:		
English	 English: Common European Framework of Reference for Languages (CEFR) Level B2 or NATO STANAG Level 3. 		
	Thorough knowledge in space issues		
	 Thorough knowledge of Common Security and Defence Policy 		

Prerequisites for international participants:

 English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2.

Goal of the Module

- To demonstrate the basic concepts associated with space issues.
- To introduce students to the main functions of space systems.
- To present the space programmes needed in EU capabilities to carry out crisis management operations.
- To provide the CSDP space needs and the shortfalls from lessons learnt in relevant missions and operations

Learning outcomes	Know- ledge	 Knows the basic concepts related to Space activities. Describe the role of space assets in security and defence.
		Can demonstrate an informed view on space issues.
	Skills	 Is capable of analysing central ideas regarding the use of space systems in the CSDP domain.
		Is able to use space based command, control, information, and communication technologies.
	Responsibility & Autonomy	 Is able to deal with different people in promoting the synergies between all actors in order to respond in a comprehensive way in the CSDP domain.
		Can support the argument that the CSDP needs have to be taken into account on the EU Space Policy and its associated programs.

Page 1 of 3









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Verification of Learning Outcomes

Test

• Written test delivered at the end of the module.

Case study.

 The case studies consisting of up to 2000 words demonstrate the importance of space assets in missions and operations. Both successes and failures are analyzed.

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Module Details				
Main Topic	Recom- mended WH	Details		
E-learning	7	 Background material: "European Space Policy: ESDP and Space" COUNCIL OF THE EUROPEAN UNION, Brussels, 16 November 2004, 11616/3/04, REV 3. European Space Policy, COM (2007) Brussels, 26.4.2007, 212. Space Strategy for Europe, Brussels, 26.10.2016 COM (2016) 705. 		
Topic 1	6	Historical depth and theoretical backgroundThe dawning of Space Era		
Topic 2	6	Main segments of space systemsTypes of orbits and their significance		
Topic 3	6	Review of representative classes of satellitesMain space military and civilian applications		
Topic 4	6	 Applications for security and defence. Space in the european framework and its governance. The origins of the EU CSDP and space 		
Topic 5	6	 EU CSDP operational requirements from space systems Lessons learnt from space shortfalls identified in CSDP missions and operations are presented. 		
Topic 6	6	Strategic dimensions of space in national & international security		
Topic 7	6	Space political dimensions		
Topic 8	6	Main trends in space		
Topic 9	6	National space programmes of major space powers		
Topic 10	6	Security in Space. Space forces. Structure, missions and objectives.		
Test	3	Module examination		
Self-Study Hours				
Topic	30	 For all the above mentioned topics Cadets have to prepare themselves for the next day. 		











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Total WH

100

List of Abbreviations:

CEFR	Common European Framework of Reference for Languages
ECTS	European Credit Transfer and Accumulation System
STANAG	Standardization Agreement
WH	Working Hour
CSDP	Common Security and Defence Policy
EU	European Union

Acknowledgement

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