



Common Module
Cyber Security
Module Description

Implementation Group

Doc.: Date : Origin: SP

Country	Institution	Common Module	ECTS
HU	National University of Public Service	Cyber Security	2.0

Service	Minimum Qualification for Lecturers		
ALL	Fully qualified IT or Electronic Warfare officer		
ALL	 Outstanding knowledge of cyber security and IT technology and national/international experience in the field of IT. 		
Language	 Teaching experience in the field of cyber security and IT technology. 		
English	 English: Common European Framework of Reference for Languages (CEFR) Level B2 or NATO STANAG Level 3. 		
SQF	Competence area - Military technician		
MILOF	Learning area - C4ISR systems & cyber defence		
	Organisation level – Single Arm/Branch / Single Service		

Prerequisites for international participants:

- English: Common European Framework of Reference for Languages (CEFR) Level B1 or NATO STANAG Level 2.
- Basic knowledge of IT (ECDL) or similar knowledge".
- · Basic knowledge of social media.
- Basic knowledge of military rules and regulations.

Goals of the Module

- Characteristics of cyber security specifics to the branch/service.
- Cyber-attacks: fundamentals of malwares, information-based attacks, and their attacking methods.

Learning outcomes	.,	Describe aim, role, and basics of C4ISR cyber security.
	Knowledge	 Identify main facts of cyber-attacks: malwares, information-based attacks, and their attacking methods.
		Deal with C4ISR cyber security management procedures.
	Skills	Develop creative solutions within a personal and organisational cyber security.
	Responsibility & Autonomy	Take responsibility to manage cyber security in unforeseen and changing situations of the operating environment.
		Make decisions in coherence with cyber security policies.

Verification of learning outcomes

- **Observation**: Throughout the Module students are to discuss given topics within syndicates and in the plenary. During these 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.

Page 1 of 3	
Origin: Col KOVACS, PhD/NUPS	24 th of February 2016
Revised: Col KOVACS, PhD/NUPS	29 th of April 2016
Revised by Col KOVACS & TMA after iMAF 2016	8 th of September 2016
Revised by Strategic Partners (3 rd SP-Meeting)	21 st of September 2016
Revised by the Implementation Group	21 st of December 2016
Revised according to SQF MILOF by the Implementation Group	14 th of February 2024







Common Module
Cyber Security
Module Description

Implementation Group

Doc.: Date : Origin: SP

Module Details (the content is as an example and depends on the course director's decision) Main Recom-**Details Topic** mended WH Human threats of information E-learning (Threats Fundamentals of information society and challenges of 2 society Technical threats information information society) Information Infrastructures society Cyber space and its E-learning (Cyber Information-based attacks 3 components (civil and Attacks) Malwares military) Fields of cyber security E-learning (Complex **Physical Security** 4 Human security cyber security) Information Security Administrative Security Fundamentals of Cyber E-learning (National Strategies Cyber Strategies of NATO and international cyber 2 Cyber Policies and National Cyber Strategies security strategies) Strategies of EU E-learning (Cyber International information security **CSIRTs and CERTs** Security Organisations 2 standards: ITIL, COBIT, **EU ENISA** and standards) ISO27001 If the e-learning does not include tests anyway, the determination of Test 1 the entry level according to the e-learning outcomes is to be conducted. If this hour is not used it counts to the self-studies hours. Cyber Security National and international cyber security organisations and 2 SW Organisations and standards in practice standards Attacking methods: DoS, DDoS, APT, Social Engineering, EW attacks (directed energy) (incl. Cyber attacks 4 SW) Identifying of malwares and other attacks Analysing known cyber incidents, identifying attack vectors and the Case studies 2 possible steps to prevent similar cases Basics of personal cyber security tools on individual workstations 12 Personal firewalls, anti malwares, secure use of workstation Cyber Security tools (incl. Ensuring cyber security on networks 6 SW) Firewalls, network tools Cyber security and social medias 37 **Total** Additional hours to increase the learning outcomes Self-studies & pre-readings. E-learning may also be counted to 13 the self-studies. The amount of hours for the use of the developed e-learning is up to the module director. He/she may replace the e-learning hours/topics with residential phases. **Total WH** 50 The detailed amount of hours for the respective main topic is up to the course director according to national law or home institution's rules.

Page 2 of 3	
Origin: Col KOVACS, PhD/NUPS	24 th of February 2016
Revised: Col KOVACS, PhD/NUPS	29 th of April 2016
Revised by Col KOVACS & TMA after iMAF 2016	8" of September 2016
Revised by Strategic Partners (3 rd SP-Meeting)	21 st of September 2016
Revised by the Implementation Group	
Revised according to SQF MILOF by the Implementation Group	1.4 th of Fohmion, 2024







Common Module Cyber Security Module Description

Implementation Group

Doc.: Date : Origin: SP

List of Abbreviations:

Advanced Persistent Threa	APT
2 Common Reference Levels	B1, B2
Common European Framework of Reference for Languages	CEFR
Computer Emergency Response Tean	CERT
Control Objectives for Information and Related Technologies	COBIT
Computer Security Incidence Response Team	CSIRT
Distributed Denial of Service	DDoS
Denial of Service	DoS
European Computer Driving Licence	ECDL
European Network and Information Security Agency	ENISA
European Unior	EU
Electronic Warfare	EW
Hungar	HU
Implementation Groυμ	IG
Information Technology	IT
Information Technology Infrastructure Library	ITIL
Lecture Uni	LU
	NATO
The Strategic Partnership	SP
/IILOF Sectoral Qualification Framework for Military Officers	SQF MILOF
AGStandardization Agreemen	STANAG
Syndicate Worl	SW
	WH

Page	3	of	3	



