



71st Implementation Group Meeting (07th-09th September 2026, Brussels)

LoD - 01 / 02 / 08

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CM's revised/checked

- New CM on:
 - Artillery Fire Control & Equipment
 - Counter-Drone Solutions
 - Mastering AI for Research, Writing, and Efficiency
- Revised CMs:
 - Information Awareness → final check to be done by LoD-6
- Revision process:
 - 84 CMs are revised and ready for a protocol number (3 of them need to be adapted to the template, and 11 need to have their footnotes completed)



CM's revised/checked



Common Module
Artillery Fire Control & Equipment
Module Description

Implementation Group
Doc.: IG/XXXX
Date: DD MM YYYY

Country RO	Institution "Nicolae Bălcescu" Land Forces Academy	Common Module Artillery Fire Control & Equipment	ECTS 4.0
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Service(s): Army	Minimum Qualification of Instructors: - Minimum English skills at Level B2 of the Common European Framework of Reference for Languages (CEFR) or NATO STANAG Level 3. - Thorough knowledge of the subject matter.
Language: English	
SQF MILOF:	- Competence area – Military technician. - Learning area – Employment of weapon/operating platform/systems. - Organisational level – Single Arm/Branch.

Prerequisites for participants:	Contents 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 of artillery doctrine, fire support principles, and artillery operations; - Basic knowledge of the construction, operation, and employment of artillery equipment and weapon systems.	- Planning, coordinating, and executing artillery fire support. - NATO-standard procedures, modern reconnaissance systems, fire control techniques, and simulation-based training environments within artillery subunits. - Target acquisition and engagement systems (JIM Compact, DJI Matrice 30 UAV, and SPIKE ATGM). - Processes of reconnaissance, target identification, and engagement.

Learning outcomes	Know- ledge	- Use specific terminology related to the instruments, equipment, and technical systems used in the preparation and execution of artillery tasks. - Explain the combat potential of artillery within the overall operations of ground forces. - Explain and apply Call for Fire and fire adjustment procedures during the execution of artillery fire missions.
	Skills	- Operate and use tactical simulation environments (VBS4) for practicing fire mission procedures, fire control processes, and tactical manoeuvre. - Employ fire control systems and procedures in order to plan, coordinate, and execute different types of artillery fire missions. - Operate information systems specific to military structures in compliance with the requirements for ensuring and protecting military operations. - Plan, develop, implement, and evaluate specific professional training using various methods, techniques, and tools.
	Respon- sibility & Autonomy	- Develop and implement specific procedures for planning the use of technical systems and optimising the command and control of artillery units. - Apply the decision-making process in unpredictable or changing environments, with limited access to guidance from higher-level authorities.



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Verification of learning outcomes:
Observation: Throughout the module, students will complete a series of assigned tasks both in written form, using standard NATO documentation formats, and in a digital environment through the CALL FOR FIRE interface of the VBS4 system. In addition, students will identify artillery equipment components and will perform practical exercises involving the operation of weapon or observation systems within various tactical scenarios; Assessment: Written examination at the end of the module. The type of test is up to the Course Director. If needed, more tests may be conducted during the Module.

Module details:		
Main Topic	Recom- mended WH for the residential phase	Details
CFF-Call for Fire	2	- Purpose and principles of Call for Fire (CFF). - Call for Fire Message Construction.
Fire Adjustment	2	- Types of adjustment missions and their application. - Adjustment Methods and Corrections. - Practical examples and calculation exercises.
Types of Fires Mission	2	- Purpose and role of fire missions in artillery and fire support operations. - Classification of fire missions according to tactical objectives and target characteristics. - Observer, Fire Direction Centre (FDC), and firing unit responsibilities.
FCS-Fire Control System	2	- Purpose and role of the Fire Control System (FCS) in artillery operations. - Components and architecture of the FCS. - Relationship between observers, Fire Direction Centre (FDC), and firing units.
VBS4-structure	2	- Overview and purpose of the Virtual Battlespace 4 (VBS4) simulation environment. - Applications of VBS4 in military education, training, mission rehearsal, and experimentation.
Call for Fire mission process- VBS4	2	- Identification and observation of targets using VBS4 tools. - Determination of target location using grid coordinates, polar method, and shift from a known point. - Creation and transmission of a Call for Fire request through the VBS4 interface.
VBS4 Interface Familiarisation	2	- Unit selection and control procedures. - Introduction to mission-related interfaces, including fire support and target acquisition tools.
Fire Mission Simulation- VBS4	2	- Fire Mission Planning and Execution. - Transmission of corrections and adjustment of fire. - Practical Exercise and After-Action Review.
Tactical manoeuvre VBS4	2	- Conduct of tactical movements in various operational environments. - Movement to contact and actions at contact.



CM's revised/checked



Common Module
Counter Drone Solutions
Module Description

Implementation Group
Doc.: IG/XXXX
Date: DD MM YYYY

Country	Institution	Common Module	ECTS
Hungary	Ludovika University of Public Service	Counter Drone Solutions	2.0

Service(s): ALL	Minimum Qualification of Instructors - English: Common European Framework of Reference for Languages (CEFR) Level C1 or NATO STANAG 6001 Level 3. - Expertise: Thorough knowledge of UAS, C-UAS technologies, RF physics, and electronic warfare basics. - Adequate understanding of the legal and regulatory environment (EU/national).
Language: English	
SQF MILOF	

Prerequisites for Participants	Contents of the Module
- English: CEFR Level B1 or NATO STANAG Level 2. - Education: At least 1 year of national higher education. - Background: Basic technical background in radio-frequency fundamentals is required.	- UAS and C-UAS systems. - Drone components, multi-sensor detection methods (Radar, EO/IR, RF, Acoustic), and evaluation of kinetic/non-kinetic countermeasures. - Practical implementation, legal constraints, and risk assessment for protected sites.

Learning outcomes	Know- ledge	- To describe the operating principles of UAS (GNSS, data link, GCS). - To describe the physical principles of drone detection and countermeasures. - To consider the legal and regulatory aspects of C-UAS activities in accordance with national and EU standards.
	Skills	- To assess basic threats and risks for protected sites. - To implement a basic layered counter-drone concept within constraints
	Respon- sibility & Autonomy	To demonstrate an ethical, safety-first and proportional approach in team-based C-UAS planning, taking responsibility for method selection.

Verification of Learning Outcomes
Written Exam: At the end of the module, a written exam assesses theoretical knowledge regarding drone architecture, detection physics, and legal regulations (Knowledge). Group Project and Presentation: Students must work in groups to develop an anti-drone defence plan for a protected facility (Skills), which they are required to defend in the form of a presentation. Observation: During practical and laboratory sessions, instructors monitor the justification of methodology selection and the application of safety considerations (responsibility & autonomy).



Common Module
Counter Drone Solutions
Module Description

Implementation Group
Doc.: IG/XXXX
Date: DD MM YYYY

Module Details		
Main Topic	Recom- mended WH for the residential phase	Details
Drone and GNSS Fundamentals	4	Drone components, COTS drones, GNSS basics
Typical drone RF Links	2	Communication signals, ISM band
Measurement	4	Drone RF signal measurement.
Detection Technologies (RF/Radar/Optical/Acoustic)	4	Sensor fusion, RCS, <u>Optics</u> sensors, Directional finding, Acoustic
Countermeasure Categories and Physics	4	RF Jamming, GNSS Spoofing, DEW, and kinetic interception.
Legal Framework and Project Planning	2	EU/National laws, proportionality, and layered concept design.
Total WH (contact hours)	20	
Tutorials (consultation and teamwork)	5	
Additional hours (WH) to increase and assess the learning outcomes (during residential phase):		
Self-studies	20	Literature research and compulsory readings.
<u>Test / evaluation / assessment</u>	5	Final written exam and project presentation.
Total WH	50	



CM's revised/checked



Common Module
**Mastering AI for Research, Writing
and Efficiency**
Module Description

Implementation Group
Doc.: IG/XXXX
Date: DD MM YYYY

Country Hungary	Institution Ludovika University of Public Service	Common Module Mastering AI for Research, Writing, and Efficiency	ECTS 2.0
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Service(s) ALL	Minimum Qualification of Instructors - English: Common European Framework of Reference for Languages (CEFR) Level C1 or NATO STANAG 6001 Level 3. - Expertise: Thorough knowledge of data science, large language models (LLMs), and AI tools in academic contexts. - Additional Knowledge: Adequate understanding of ethical considerations, research methodologies, and current trends in AI applications for academia.
Language English	
SQF MILOF	

Prerequisites for international participants - English: English: CEFR Level B1 or NATO STANAG Level 2. - Education: At least 1 year of national higher education (military or civilian). - Background: No strict prerequisites specified, but basic familiarity with academic writing and research is recommended. The module is accessible to students from various disciplines.	Contents of the Module - Introduce students to the use of large language models (LLMs) and AI tools in academic contexts. - Enable students to generate, modify, and improve academic texts, automate repetitive tasks, and enhance efficiency in research and learning. - Emphasize professional techniques and ethical use to avoid plagiarism and scientific misconduct.
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Learning outcomes	Know- ledge	- To explain the functioning and applications of large language models (LLMs) in academic settings. - To identify the pitfalls of LLMs and strategies to avoid them.
	Skills	- To apply appropriate AI tools for specific academic tasks. - To generate, modify, and improve academic texts based on AI tools.
	Respon- sibility & Autonomy	To assess the ethical use of AI by avoiding plagiarism and adhering to scientific standards, while evaluating and comparing the quality of the generated text.

Verification of learning outcomes - Observation: Students will become familiar with the applications of academic data science technologies, discuss the given topics in plenary sessions, and present the results of their teamwork. During these activities, students will be evaluated to verify their competencies. - Project: The group project will focus on the fundamental description of selected artificial intelligence applications and LLMs. Students will need to choose a specific model and define its general characteristics, as well as solve a professional task using artificial intelligence. - Test: A written exam will be conducted at the end of the module.
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Common Module
**Mastering AI for Research, Writing
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Module Description

Implementation Group
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Module details		
Main Topic	Recom- mended WH	Details
Basic Concepts and History of AI	1	Overview of AI origins and evolution, setting the context for its academic applications.
Role of AI in Higher Education	2	Exploration of how AI transforms teaching, learning, and academic research.
Functioning of Large Language Models (LLMs)	2	Technical basics of LLMs, their design, and how they process and generate text.
LLM Pitfalls and How to Avoid Them	2	Common errors (e.g., bias, inaccuracies) and strategies to mitigate them in academic work.
Use of AI-Based Programs	2	Practical use of tools like Scispace, Grammarly, and Deep-L for text correction and editing.
Supporting Personal Tasks with LLM	2	Applying LLMs to create study guides, notes, and other personal academic materials.
Increasing Efficiency with AI	2	Techniques to streamline research and learning tasks (e.g., summarizing, fact-highlighting).
Automating Repetitive Tasks	1	Using AI to handle routine tasks like formatting or data entry in academic workflows.
Ethical Use of AI, Plagiarism, and Research Ethics	2	Guidelines for responsible AI use, avoiding plagiarism, and adhering to ethical standards.
Techniques for Professional Prompting	2	Mastering prompting to optimize LLM outputs for academic purposes.
Chatbots in Academic Life	1	Role of chatbots in assisting with academic queries, tutoring, or resource navigation.
Text Manipulation and Note-Taking with AI	2	AI-driven methods for editing texts and organizing notes effectively.
Generating Literature Outlines	2	Using AI to draft outlines for research papers or literature reviews.
Future Trends in Artificial Intelligence	1	Emerging developments in AI and their potential impact on academia.
Total lecture WH	24	
Additional hours (WH) to increase the learning outcomes		
Self-Studies	21	Separate hours for in-depth study, practical application of AI tools, and consolidation of knowledge through exercises or personal projects.
Evaluation(s)	5	Final written exam and project presentation.
Total WH	50	The module encourages the active participation of students through hands-on activities with AI tools. The detailed allocation of hours for each topic is flexible and may be adjusted by the course director according to national laws or institutional rules.



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N.	COMMON MODULE	ECTS	SERVICE	SUBJECT AREA	PROPOSED BY	Project/Semester	Country	APPROVED	Revision
1	Advanced Technologies in Borders Surveillance	2	ALL	Tech	MUT (PL)		PL	24/07/2017	
2	Aerial Navigation	2	Air Forces	Technology	AFAHC (RO)	IAFS	RO	27/05/2026 (70)	
3	Aviation English	4	Air Forces	Technology	AFAHC (RO)	IAFS	RO	27/05/2026 (70)	
4	Aviation English - Part 1	3	Air Force Arm	ESP	PAFA (PL)		PL	24/07/2017	11/09/2024 (63)
5	Aviation English - Part 2	3	Air Force Arm	ESP	PAFA (PL)		PL	24/07/2017	11/09/2024 (63)
6	Aviation English for ICAO LPR	3	Air Force Arm	ESP	PAFA (PL)		PL	24/07/2017	
7	Aviation Meteorology	2	Air Forces	Technology	AFAHC (RO)	IAFS	RO	27/05/2026 (70)	
8	Avionics Systems	4	Air Forces	Technology	PrAFA (PT)	IAFS	PT	27/05/2026 (70)	
9	Basic Military English	2	ALL	ESP	LFA (RO)	Army Semester	RO	21/12/2016	14/02/2024 (61)
10	Basics of Military Logistics Information Systems	2	Logistics	Logistics	NDC (BG)	Logistics	BG	26/11/2025 (68)	
11	Battle Physical, Mental and Survival Training	3	ALL	Military Training	IMAF 2014		iMAF 2014	28/08/2014	26/02/2025 (65)
12	Biosafety & Bioterrorism	2	ALL	NBC	HMACSO (EL)		EL	04/09/2019	23/05/2024 (62)
13	Budget & Finance in the EU Defence Sector	2	ALL	Economics	HMACSO (EL)		EL	08/09/2021	23/05/2024 (62)
14	Close Quarter Battle	3	ALL	Ops & tactics	NDA (LV)		LV	17/11/2020	20/11/2024 (64)
15	CMO/PSO (4 Sub-Modules A, B, C, D)	12	ALL	Ops & tactics	TMA (AT)		AT	26/09/2014	23/05/2024 (62)
16	Common Operating Environment	3	ALL	Military Training	IMAF 2014		iMAF 2014	28/08/2014	
17	Common Security and Defence Policy	3	ALL	Security & Defence	//		ESDC	24/06/2021	14/02/2024 (61)
18	Comprehensive Approach	4	ALL	Security & Defence	UOD (CZ)	Army Semester	CZ	21/09/2016	14/02/2024 (61)
19	Computer Networks	2	Navy	Technology	PNA (PL)	INS	PL	04/03/2026 (69)	
20	Crises Management Operations (CMO)	3	Army	Ops & tactics	NDA (LV)		LV	22/09/2022	23/05/2024 (62)
21	Crisis Management (Military Leadership) -IMLA	2	ALL	Leadership	HMA (EL)	IMLA	EL	25/08/2018	23/05/2024 (62)
22	Cross-Cultural Communication	2	ALL	Communication	MULF (PL)	Army Semester	PL	21/12/2016	14/02/2024 (61)
23	CSDP Olympiad	2	ALL	Security & Defence	CYPRUS		CY	29/11/2015	23/05/2024 (62)
24	Cultural Awareness	2	ALL	Personal skill	LFA (RO)	Army Semester	RO	21/09/2016	14/02/2024 (61)
25	Cyber Security	2	ALL	Tech	NUPS (HU)	Army Semester	HU	21/12/2016	14/02/2024 (61)
26	Cyber Warfare	2	Air Forces	Technology	HAFA (GR)	IAFS	GR	27/05/2026 (70)	
27	Databases	3	Logistics	Logistics	HAA (GR)	Logistics	GR	26/11/2025 (68)	
28	Defence and Security Economics	4	ALL	Economics	IMAF 2014		iMAF 2014	28/08/2014	20/11/2024 (64)
29	Digital Leadership	3	ALL	Leadership	PMA (PT)		PT	08/09/2021	11/09/2024 (63)
30	Electronic Warfare	2	ALL	Tech	NUPS (HU)	Army Semester	HU	21/09/2016	14/02/2024 (61)
31	English for Aircraft Maintenance– SET Part 1	3	Air Force Arm	ESP	PAFA (PL)		PL	24/07/2017	
32	English for Aircraft Maintenance– SET Part 2	3	Air Force Arm	ESP	PAFA (PL)		PL	24/07/2017	
33	English for Aircraft Maintenance– SET Part 3	3	Air Force Arm	ESP	PAFA (PL)		PL	24/07/2017	
34	English for Aviation Security Personnel (AVSEC)	3	Air Force Arm	ESP	PAFA (PL)		PL	24/07/2017	
35	European Economic and Finance Security (EEFS)	2	All	Law Enforcement	EEA (IT)		IT	04/03/2026 (69)	

No	COMMON MODULE	ECTS	SERVICE	SUBJECT AREA	PROPOSED BY	Project/Semester	Country	APPROVED	Revision
36	European Values	2	ALL	Ethics	LFA (RO)		RO	26/02/2025 (65)	
37	Fighting In Built Up Area	3	ALL	Ops & tactics	NDA (LV)		LV	04/09/2018	20/11/2024 (64)
38	Flight & Ground Safety	2	Air Forces	Technology	PrAFA (PT)	IAFS	PT	27/05/2026 (70)	
39	Gender Perspectives in Naval Forces	2	Navy	Ops & tactics	PNA (PL)	INS	PL	04/03/2026 (69)	
40	Gender Perspectives in Security and Defence	2	ALL	Security & Defence	NMU (BG) LOD10		BG	22/09/2022	11/09/2024 (63)
41	Hybrid Threats	3	ALL	Hybrid	RAFA		RO	?	
42	Hybrid Threats - Protection and Enhanced Resilience of Critical Infrastructure	2	ALL	Hybrid	HSU (GE)		GE	05/06/2025 (66)	
43	IMINT-GEOINT Analysis Course	3	ALL	Tech	MTA (RO)		RO	10/09/2025 (67)	
44	Individual Personal Development and Meta-Communication	2	ALL	Individual training	IMAF 2014		iMAF 2014	28/08/2014	
45	Infantry Officer Winter Warfare Basic Module	2	ARMY	Military Training	EMA (EE)		EE	17/11/2020	20/11/2024 (64)
46	Intercultural Communication	3	ALL	Soft Skills	MTA (RO)		RO	10/09/2025 (67)	
47	Intermediate Military English	2	ALL	English	LoD18		IG	20/11/2024 (64)	
48	Interoperability	6	ALL	Ops & tactics	UOD (CZ)	Army Semester	CZ	21/12/2016	23/05/2024 (62)
49	Irregular Warfare (A)	3	ALL	Ops & tactics	SNDU (SE)		SE	07/12/2017	20/11/2024 (64)
50	Law of Armed Conflict	2	ALL	Law	TMA (AT)	Army Semester	AT	21/09/2016	14/02/2024 (61)
51	Leadership and Agility in Complex Environments	2	ALL	Leadership	ITAFa (IT)		IT	18/06/2018	
52	Leadership in Communication – IMLA	2	ALL	Leadership	AM (PT)	IMLA	PT	25/08/2018	23/05/2024 (62)
53	Leadership, Motivation and Influence – IMLA	2	ALL	Leadership	MULF (PL)	IMLA	PL	25/08/2018	23/05/2024 (62)
54	Maritime Security	2	Navy	Security & Defence	HNA (EL)	INS	EL	23/05/2017	05/06/2025 (66)
55	Media Awareness	2	ALL	Communication	RMA (BE)		BE	29/11/2015	20/11/2024 (64)
56	Military Ethics	2	Air Force	Ethics	HAFA (GR)	IAFS	GR	26/02/2025 (65)	
57	Military History of 20th century	2	ALL	History	RMA/PMA (BE/PT)		BE/PT	26/11/2025 (68)	
58	Military Instructor Training	3	ALL	Ops & tactics	IMAF 2014		iMAF 2014	28/08/2014	
59	Military Leadership (A)	2	ALL	Leadership	TMA (AT)	Army Semester	AT	21/12/2016	14/02/2024 (61)
60	Military Leadership (B)	2	ALL	Leadership	TMA (AT)	Army Semester	AT	21/12/2016	14/02/2024 (61)
61	Military Leadership C (Physical Training)	4	ALL	Leadership	TMA (AT)	Army Semester	AT	21/12/2016	14/02/2024 (61)
62	Military Police in Multinational operations	4	MP	Ops & tactics	LFA (RO)		RO	27/05/2026 (70)	
63	Military Strategy and Security In the Baltic Sea Region (A)	3	ALL	Security & Defence	SNDU (SE)		SE	07/12/2017	26/02/2025 (65)
64	Multinational Operations Logistics	3	Logistics	Logistics	NDU (RO)	Logistics	RO	26/11/2025 (68)	
65	Naval Architecture	2	Navy	Technology	RNA (RO)	INS	RO	04/03/2026 (69)	
66	Naval Communications	2	Navy	Technology	NVNA (BG)	INS	BG	04/03/2026 (69)	
67	Naval Cyber Threats	2	Navy	Technology	PNA (PL)	INS	PL	04/03/2026 (69)	
68	Naval Electronics	2	Navy	Technology	NVNA (BG)	INS	BG	04/03/2026 (69)	
69	Naval Leadership	2	Navy	Leadership	INA (IT)	INS	IT	04/03/2026 (69)	



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No	COMMON MODULE	ECTS	SERVICE	SUBJECT AREA	PROPOSED BY	Project/Semester	Country	APPROVED	Revision
70	Naval Power Plants	2	Navy	Technology	INA (IT)	INS	IT	04/03/2026 (69)	
71	Naval Sensors	2	Navy	Technology	INA (IT)	INS	IT	04/03/2026 (69)	
72	Oceanography.	2	Navy	Technology	RNA (RO)	INS	RO	04/03/2026 (69)	
73	Problem Solving and Critical Thinking	3	ALL	Soft Skills	SAMS (IT)		IT	02/03/2023	
74	Propulsion Systems	2	Air Forces	Technology	PrAFA (PT)	IAFS	PT	27/05/2026 (70)	
75	Relief Logistics	3	Logistics	Logistics	HAA (GR)	Logistics	GR	26/11/2025 (68)	
76	Senior Cadets' Seminar on Leadership	1,5	ALL	Leadership	RMA (BE)		BE	04/09/2018	26/02/2025 (65)
77	Small Unit Tactics	4	ALL	Ops & tactics	IMAF 2014		iMAF 2014	28/08/2014	
78	Social Engineering Protection	2	ALL	Tech	PMA (PT)		PT	08/09/2021	20/11/2024 (64)
79	Space Applications for Security and Defence	3	Air Force	Security & Defence	HAFA (EL)	IAFS	EL	16/04/2018	20/11/2024 (64)
80	Space-based ISR, Operations & Situational Awareness	3	ALL	Technology	HAA (GR)		GR	26/11/2025 (68)	
81	Stress Management – IMLA	2	ALL	Individual training	MULF (PL)	IMLA	PL	25/08/2018	11/09/2024 (63)
82	Techonolgies in Cybersecurity	2	ALL	Tech	MUT (PL)		PL	03/09/2020	11/09/2024 (63)
83	Troop Leading Procedures	1	ALL	Ops & tactics	NDA (LV)		LV	17/11/2020	26/02/2025 (65)
84	Unmanned Aerial Systems (UASs)	3	ALL	Tech	HAFA (EL)		EL	24/06/2021	11/09/2024 (63)
TOTAL		221,5							
Revised									
UnRevised									
Army Semester									
IMLA Project									
To be checked									
Pending approval									
2+1 formula									
replaced by different version (title changed)									
1	Maritime Leadership	2	Mainly Navy	Leadership	FR NAVY		FR	29/11/2015	
2	Military Ethics (A)	2	ALL	Ethics	HAFA (EL)		EL	16/04/2018	
3	Military Ethics (B)	2	ALL	Ethics	HAFA (EL)		EL	16/04/2018	



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Thank you!
Any questions??