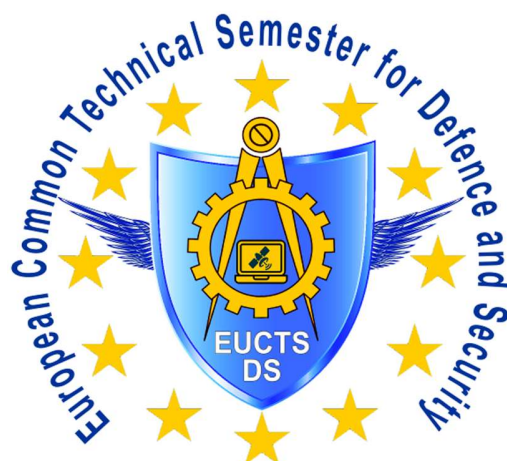




EUROPEAN COMMON TECHNICAL SEMESTER FOR DEFENCE AND SECURITY (EuCTS_{DS})

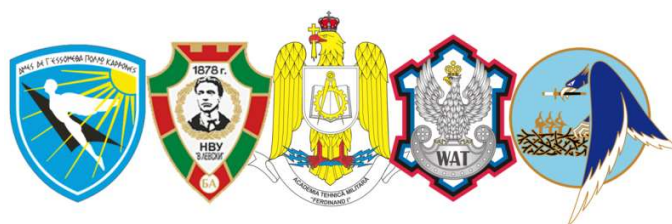
PROJECT NO 2020-1-RO01-KA203-080375



CURRICULUM

for

EUROPEAN COMMON TECHNICAL SEMESTER FOR DEFENCE AND SECURITY (EuCTS_{DS})



Co-funded by the
Erasmus+ Programme
of the European Union



TEACHING OBJECTIVES AND COMPETENCIES

The **teaching objective** is to prepare the participants, military or civilian students, to acquire professional and transversal competencies that allow them to develop projects in technical defence and security systems, elaborated in international, multidisciplinary and multicultural teams.

Professional competencies: analysis of the constructive-functional principles of technical systems; modelling and simulation of phenomena and processes specific to technical systems; designing the main components and/or manufacturing technologies for technical systems; testing, assessing, and ensuring the quality of technical systems for defence and security; management of technical defence and security projects.

Transversal competencies: responsible execution of professional tasks based on documentation, logical reasoning, practical applicability, evaluation, self-evaluation and optimal decision; performing activities and employing specific teamwork roles on different responsibilities, as well as assigning tasks for subordinate levels based on communication, cooperation, mutual respect, and using the feedback to improve their work and the spirit of initiative; professional communication in a multidisciplinary, multicultural and international context.

DISCIPLINES, COURSE AND SYLLABUS DESIGN AND ASSESSMENT METHODS

No.	COD	DISCIPLINES	Didactic activities					Individual study	ECTS
			C	S	L	P	Total		
1.	BE01	Applied Informatics	14	-	28	-	42	33	3
2.	BE02	Applied Automation for Engineering Systems	14	-	28	-	42	33	3
3.	MS01	Integrated Weapon Systems	14	-	28	-	42	33	3
4.	MS02	Common Security and Defence Policy for Technical Systems	14	28	-	-	42	33	3
5.	EI01	A. Signal Processing	14	-	28	-	42	33	3
	MS02	B. Mechanics and Material Science							
6.	EI02	A. Programming Languages	14	-	28	-	42	33	3
	MS02	B. Dynamic of Flight							
7.	EI03	A. Computer Networks	14	-	28	-	42	33	3
	MS03	B. Propulsion Systems							
8.	EI04	A. Microcontrollers	14	-	28	-	42	33	3
	MS04	B. Computer-Aided-Design and Numerical Analysis							
9.	Proj	Interdisciplinary Scientific Project	-	-	-	84	84	66	6
10.	ICom	Intercultural communication	14	14	-	-	28	22	2
11.	Sport	Physical Education and Sports	-	-	28	-	28	22	2
TOTAL			126	42	224	84	476	374	34

Remarks:

- 1) Subjects 5A, 6A, 7A and 8A are to be attended by the students in the field of electronic engineering and computer science
- 2) Subjects 5B, 6B, 7B and 8B are to be attended by the students in the field of mechanical and aerospace engineering
- 3) Subjects 10 and 11 are Supplementary subjects, being proposed to be organised by the host institution only if necessary.



REMARKS

1. The *European Common Technical Semester for Defence and Security* is conducted in English;
2. The semester has a duration of 18 weeks, of which 16 weeks for teaching activities, one week for the scientific project elaboration, and one week for scientific project defence;
3. The participants in the international semester are undergraduate students from international and national military academies/civilian universities.
4. The eligibility criteria for accepting Romanian and foreign students in the International Semester courses are as follows:
 - to be enrolled in a university degree program abroad or from the home country.
 - to prove that they have completed at least one year of study in a bachelor's degree program.
 - to provide evidence of having at least a B2 English level.
5. The admission of candidates to fill vacancies for the international semester shall be made based on the overall average of the years of study completed by the candidates being nominated by the home institutions/faculties.
6. The activities related to the scientific project are carried out in international teams of 4-6 students, the activity being supervised by the member of the teaching staff responsible for the project.

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