

FACULTY OF Faculty of Automation and Computer Science
Domain Computer Science and Information Technology
Program Name Cybersecurity Engineering (in English Language)
Study Level Master Research

CURRICULA Valid for the Academic Year 2026-2027

Pag. 1

COURSE CODE AND TITLE		Year: I										Method of Assessment			Nr. Of Hours/Discipline				ECTS/Sem		Discipline	
		SEM 1 14 weeks					SEM 2 14 weeks															
		C	S	L	P	Pr/Ce	C	S	L	P	Pr/Ce	E	C	V	Total	C	Apl	Indiv. St.	1	2	cat	type
1.00	Software Security	2	0	1	0	0					Gr			125	28	14	83	5.0		DS	DOB	
2.00	Information security	2	1	0	0	0					Gr			125	28	14	83	5.0		DS	DOB	
3.00	Reverse engineering and Malware analysis	2	0	2	0	0					Gr			125	28	28	69	5.0		DS	DOB	
4.10	Mobile Security	2	0	2	0	0					Gr			150	28	28	94	6.0		DF	DOP	
4.20	Programming Security Mechanisms of x86-64 Architecture	2	0	2	0	0					Gr			150	28	28	94	6.0		DF	DOP	
5.00	Research Activity 1	0	0	0	0	14					A/R		225	0	196	29	9.0		DS	DOB		
6.00	Windows Internals and Kernel Driver Development						2	0	2	0	0	Gr		125	28	28	69	5.0		DF	DOB	
7.00	Information Systems Audit and Risk Management						2	1	0	0	0	Gr		125	28	14	83	5.0		DS	DOB	
8.00	Web Security						2	0	1	0	0	Gr		125	28	14	83	5.0		DF	DOB	
9.10	Big Data and Machine Learning for Cybersecurity						2	0	2	0	0	Gr		150	28	28	94	6.0		DS	DOP	
9.20	Virtualization and Hardware-based security						2	0	2	0	0	Gr		150	28	28	94	6.0		DS	DOP	
10.00	Research Activity 2						0	0	0	0	14	A/R		225	0	196	29	9.0		DS	DOB	
TOTAL PER YEAR		8	1	5	0	14	8	1	5	0	14	sem1	4	0	1	1500	224	560	716	30.0	30.0	
					14.0					14.0		sem2	4	0	1							

201.00	Psychopedagogy of Adolescents, Youngs and Adults	2	1	0	0	0			Gr	125	28	14	83	5.0	DC	DFA						
301.00	Volunteering 1	0	1	0	0	0			A/R	50	0	14	36	2.0	DC	DFA						
100.00	Secure Infrastructure and Deployments in Microsoft Azure						2	0	2	0	0	Gr	125	28	28	69	5.0	DS	DFA			
202.00	Design and Management of Educational Programs						2	1	0	0	0	Gr	125	28	14	83	5.0	DC	DFA			
203.10	Educational Communication						1	2	0	0	0	Gr	125	14	28	83	5.0	DC	DFA			
203.20	Educational Research Methodology						1	2	0	0	0	Gr	125	14	28	83	5.0	DC	DFA			
203.30	Modern Trends in Assesement Theory and Practice						1	2	0	0	0	Gr	125	14	28	83	5.0	DC	DFA			
302.00	Volunteering 2						0	1	0	0	0	A/R	50	0	14	36	2.0	DC	DFA			
TOTAL YEAR		2	2	0	0	0	5	4	2	0	0	sem1 sem2	1 3	0 0	1 1	600	98	112	390	7.0	17.0	
		4.0					11.0															

Rector,
Prof. dr. ing. Vasile Topa

Dean,
Prof. dr. ing. Vlad Muresan

Department Director,
Prof. dr. ing. Rodica Potolea

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COURSE CODE AND TITLE		Year: II										Method of Assessment			Nr. Of Hours/Discipline				ECTS/Sem		Discipline	
		SEM 1 14 weeks					SEM 2 14 weeks								Total	C	Apl	Indiv. St.	1	2	cat	type
		C	S	L	P	Pr/Ce	C	S	L	P	Pr/Ce											
11.00	Digital Forensics and Incident Response	2	0	1	0	0						Gr		125	28	14	83	5.0		DS	DOB	
12.00	Security Configuration of Computing Systems and Networks	2	0	2	0	0						Gr		125	28	28	69	5.0		DA	DOB	
13.00	Penetration testing	2	0	0	1	0						Gr		150	28	14	108	6.0		DS	DOB	
14.00	Applied cryptography	2	2	0	0	0						Gr		125	28	28	69	5.0		DA	DOB	
15.00	Ethics and Academic Integrity	1	0	0	0	0						Gr		25	14	0	11	1.0		DC	DOB	
16.00	Research Activity 3	0	0	0	0	14						A/R		200	0	196	4	8.0		DS	DOB	
17.00	Professional internship / Designing practice						0	0	0	0	14	A/R		250	0	196	54	10.0		DS	DOB	
18.00	Practice for the Elaboration of the Dissertation						0	0	0	0	7	A/R		250	0	98	152	10.0		DS	DOB	
19.00	Dissertation Project Work						0	0	0	7	0	A/R		250	0	98	152	10.0		DS	DOB	
20.00	Dissertation Defense						0	0	0	0	0	Gr		0	0	0	0	10.0		DS	DOB	
TOTAL PER YEAR		9	2	3	1	14	0	0	0	7	14	sem1 sem2	4 0	1 0	1 3	1500	126	672	702	30.0 + 10		

204.00	Didactics of the Field and Developments in Didactics Specialties (High School and Post High School Education)	2	1	0	0	0			Gr	125	28	14	83	5.0	DC	DFA						
205.10	School Organization Management	1	2	0	0	0			Gr	125	14	28	83	5.0	DC	DFA						
205.20	Metacognitive Education	1	2	0	0	0			Gr	125	14	28	83	5.0	DC	DFA						
205.30	Intercultural Education	1	2	0	0	0			Gr	125	14	28	83	5.0	DC	DFA						
303.00	Volunteering 3	0	1	0	0	0			A/R	50	0	14	36	2.0	DC	DFA						
206.00	Teaching Practice (in Secondary School and Tertiary Education)						0	0	0	0	3		Gr	125	0	42	83	5.0	DC	DFA		
207.00	Graduation Exam - Level II						0	0	0	0	0		Gr	125	0	0	125	5.0	DC	DFA		
304.00	Volunteering 4						0	1	0	0	0		A/R	50	0	14	36	2.0	DC	DFA		
TOTAL YEAR		3	4	0	0	0	0	1	0	0	3	sem1	2	0	1	600	42	112	446	12.0	7.0	
					7.0					1.0		sem2	0	1	1					+ 5		

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