Cybersecurity 2020/2021

	Name of the course	TOTAL								Semesters																			
										I							II							III					
		Hours	W	C	L	P	S	ECTS	Egz	W	C	L	P	S	ECTS	Egz	W	C	L	P	S	ECTS	Egz	W	C	L	P	S	ECTS	Egz
	General subjects																												
1	Managerial economics	45	15	30	0	0	0	3	0	15	30	0	0	0	3														
2	Psychology and Sociology and Industrial Relations	30	0	30	0	0	0	2	0															0	30	0	0	0	2	
3	Technical and Professional Writing	30	0	30	0	0	0	1	0								0	30	0	0	0	1								
	Major courses																												
4	Advanced Programming Technologies	60	30	0	30	0	0	4	1	30	0	30	0	0	4	E													
5	Computer Methods in Science and Technology	45	30	0	15	0	0	4	1	30	0	15	0	0	4	E													
6	IT Project Mamagement	60	30	0	0	30	0	5	1								30	0	0	30	0	5	E							
7	Parallel and Distributed Programming	60	30	0	15	15	0	5	1								30	0	15	15	0	5	E							
	Specialized courses																												
8	Algebra with Number Therory	60	30	30	0	0	0	4	0	30	30	0	0	0	4														
9	Introduction into Cybersecurity	15	15	0	0	0	0	3	0	15	0	0	0	0	3														
10	Security of the Web Services and Applications	60	30	0	30	0	0	4	1	30	0	30	0	0	4	E													
11	Security in Telecommunication Networks	60	30	0	30	0	0	4	1	30	0	30	0	0	4	E													
12	Computer Systems Security	45	15	0	15	15	0	4	0	15	0	15	15	0	4														
13	Network Traffic Analysis	60	15	0	15	30	0	5	0								15	0	15	30	0	5								
14	Advances in Cryptography and Cryptanalysis	75	30	30	15	0	0	7	1								30	30	15	0	0	7	E							
15	Security in Maobile Systems	45	15	0	30	0	0	2	1															15	0	30	0	0	2	E
16	Security of Industrial Data Transmissions Systems	60	30	0	30	0	0	3	1															30	0	30	0	0	3	E
17	Strategic Enterprise Management	30	15	15	0	0	0	2	0															15	15	0	0	0	2	
18	Problem Solving Workshop	45	0	0	0	45	0	3	0															0	0	0	45	0	3	
19	Diploma Seminar	30	0	0	0	0	30	3	0															0	0	0	0	30	3	
20	Preparation of the Diploma Thesis	10	0	0	0	10	0	15	0															0	0	0	10	0	15	
	Optional courses 1 (1 of 2)																												
21	Optional course 1	45	30	0	15	0	0	5	0								30	0	15	0	0	5								
	Optional courses 2 (1 of 2)																												
22	Optional course 2	45	30	0	15	0	0	2	0								30	0	15	0	0	2								
	Total	1015	420	165	255	145	30	90	9	195	60	120	15	0	30	4	165	60	75	75	0	30	3	60	45	60	55	30	30	2
										390							375							250						

Letter "E" in column "Egz" stands for exam.

W - lecture, C - auditorial exercises, L - laboratories, P - projects, S - seminar

	Optional courses 1 (1 of 2)																												
	Security Aspects in Big Data Processing	45	30	0	15	0	0	5	0								30	0	15	0	0	5								
	Algebraic Coding	45	30	0	15	0	0	5	0								30	0	15	0	0	5								
	Optional courses 2 (1 of 2)																												
	Secure Cloud Computing	45	30	0	15	0	0	2	0								30	0	15	0	0	2								
	Computer-quantum computation methods	45	30	0	15	0	0	2	0								30	0	15	0	0	2								