

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SIMON KUZNETS KHARKIV NATIONAL UNIVERSITY OF ECONOMICS

APPROVED
by the decision of the Academic Council of S. Kuznets KhNUE
from may «04» 2020 protocol № 7



CURRICULUM

Master training in the field of knowledge **12 "Information Technology"**
specialty: **125 "Cybersecurity"**
educational and professional program: **CYBERSECURITY**
qualification: **Master in Cybersecurity**

Form of study: **full-time**

Duration of study: **1 year 4 months**

based on: **bachelor's degree**

I. SCHEDULE OF THE EDUCATIONAL PROCESS

Pik набл.	September				October					November					December					January				February				March				April				May				June				July				August						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
I																			H	E	E	E	H	RP																	T	T	E	E	E	H	H	H	H	H	H	H	H	H
II	PP	PP	PP	PP	PP	PP	PP	PP	PP	D	D	D	D	D	DP	DP	DP	DP	DP																																			

Marking:



- theoretical study;



- examination period;



- holidays;



- preparation of the diploma project

II. Summary of budget time, weeks

Year of study	Theoretical study	Examination period	Practice	Final examination	Completion of the thesis	Holidays	Total
I	31		3				34
II			8	5	5		18
Total	31		11	5	5		52

III. PRACTICE

Name of practice	Semester	Weeks
T Complex training	2	2
RP Research practice	2	1
PP Pre-diploma practice	3	8

IV. Final examination

Form of final atestation (exam, thesis (project))	Semester
DP Degree project	3

V. CURRICULUM PLAN

Discipline code	DISCIPLINE TITLE	Number of ECTS credits	Number of hours					Distribution of ECTS credits by courses and semesters			FORM of final control	DEPARTMENT	
			Total amount	Auditorium			Self-study	I y. s.		II y. s.			
				including:				Semesters					
				Total	lectures	laboratory works		practical lessons	1	2			3
									Number of weeks per semester				
									18	13			

I. CYCLE OF PROFESSIONAL TRAINING

BASIC COMPONENTS

B 1	COMMERCIAL LAW	2	60	20	10		10	40	2			Test	CIT
B 2	ENGLISH	2	60	20			20	40		2		Test	PFP
B 3	PRESENTATION AND PROCESSING OF KNOWLEDGE	3	90	30	20	10		60	3			Test	CIT
B 4	ADVANCED PROGRAMMING METHODS	3	90	20	10	10		70		3		Exam	CIT
B 5	SECURITY OF THE INTERNET OF THINGS	3	90	30	20	10		60	3			Test	CIT
B 6	EXTENDED NETWORK AND CLOUD SECURITY	3	90	20	10	10		70	3			Exam	CIT
B 7	DIGITAL FORENSICS	4	120	30	10	20		90		4		Exam	CIT
B 8	PENETRATION TESTING AND ETHICAL HACKING	4	120	30	10	20		90		4		Exam	CIT
B 9	WEB SECURITY	3	90	20	10	10		70	3			Exam	CIT
B 10	WIRELESS AND MOBILE SECURITY	4	120	30	10	20		90	4			Exam	CIT
B 11	PROTECTION OF INTELLECTUAL PROPERTY	2	60	20			20	40		2		Test	CIT
B 12	THE ART OF EDITING AND RHETORIC	2	60	20			20	40	2			Test	SCM
RP	RESEARCH PRACTICE	2	60					60		2		Report	CIT
PP	PRE-DIPLOMA PRACTICE	12	360					360			12	Report	CIT
D	DEGREE PROJECT	18	540					540			18	Degree project	CIT
TOTAL BASIC COMPONENTS		67	2010	290	110	110	70	1720	20	17	30		

Discipline code	DISCIPLINE TITLE	Number of ECTS credits	Number of hours						Distribution of ECTS credits by courses and semesters			FORM of final control	DEPARTMENT
			Total amount	Auditorium				Self-study	I y. s.		II y. s.		
				Total	including:				Semesters				
					lectures	laboratory works	practical lessons		1	2	3		
									Number of weeks per semester				
									18	13			

SELECTIVE COMPONENT

The choice of disciplines is made from the general university pool (mag-minors) and the pool of the department (training)

MM1	MAG-MINOR	5	150	40	20		20	110	5			Test	
MM2	MAG-MINOR	5	150	40	20		20	110	5			Test	
MM3	MAG-MINOR	5	150	40	20		20	110		5		Test	
MM4	MAG-MINOR	5	150	40	20		20	110		5		Test	
T	TRAINING COURSE: BLOCKCHAIN: MATHEMATICAL PROBLEMS AND APPLICATIONS or TRAINING COURSE: CRYPTOGRAPHY AND CRYPTOANALYSIS	3	90	30	20	10		60		3		Test	CIT
TOTAL SELECTIVE COMPONENT		23	690	190	100	10	80	500	10	13			
TOTAL		90	2700	480	210	120	150	2220	30	30	30		
Number of exams									3	3			
Number of tests									6	5			
Number of term papers (projects)													
Number of reports on practical training										1	2		

Head of the Department of Cyber Security and Information Technology _____ Serhii Yevseiev

Dean of the Faculty of Economic Informatics _____ Hryhorii Kots

Head of the Educational Department _____ Hanna Chumak

Vice-rector for Scientific and Pedagogical Work _____ Mykola Afanasiev

Agreed:

Prof. DSc

Proxy of Rector for Eastern Europe

University of Bielsko-Biala, Poland

**PROXY of RECTOR
for Eastern Europe**

Prof. D.Sc. Mikolaj Karpinski

Mikolaj Karpinski

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