

Ministry of Education and Science of Ukraine Odesa I.I. Mechnykov National University Faculty of Mathematics, Physics and Information Technologies

CURRICULUM

Master's training in the knowledge field 12 Information technologies in specialty 126 Information systems and technologies The form of study is full-time

Qualification
Apprenticeship
based on

Master of Information Systems and Technologies 1 year 4 months bachelor's degree

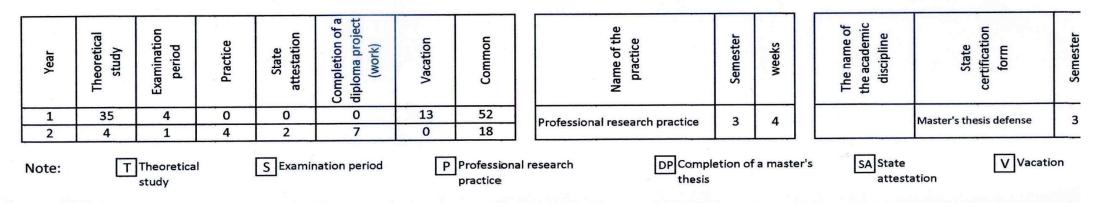
I. SCHEDULE OF THE EDUCATIONAL PROCESS

	S	Sep	ote	mb	er	Г	00	cto	be	r	Γ	No	ove	mb	er			De	cen	nbe	r	T	Jar	nua	iry	T	Fe	ebr	uar	у		Ma	rch	1		A	pril				Ma	y			Ju	ine				Jul	Y			A	ugu	ist
Year	-		2	ŝ	4	5	, ,	٥	2	∞	6	9	115		F	13	14	15	16	17	18	19		3 5	1		23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	4	41	42	43	44	45	46	47	48	49	1		10
1	T		т	т	Т	T	•	т	Т	Т	Т	Т	•	Г	т	Т	Т	Т	Т	Т	Ť	S	S	1	1	V	V	V	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	S	S	V	V	V	V	V	1	1	1	V
2	Т		Т	Т	Т	S		Ρ	Ρ	Ρ	P	D	PD	P	DP	DP	DP	DP	DF	SA	S/																								1											

II. SUMMARY OF TIME BUDGET DATA, weeks

III. PRACTICE

IV. STATE ATTESTATION



					۷.	CURRIC	ULUM								
to EPI		Dist	ribution	by sem	esters	CTS			Number	of hours	5		Distribution of	f hours per week by c semesters	ourses and
n B U		S		Соц	ırses	S EC	e		Aud	itorv			lo	ourse	II course
according	COURSE NAME		ts			Number of ECTS credits	otal volume			ncluding	:	ual		Semesters	
ac c		Exams	Credits	projects	ž	upe cr	Vol	In total	es	s	ractical	Individual work	1	2	3
e G		ŵ	ت ا	ē	work	Lu	tal	n to	lectures	Lab works	cti	ibu >	Number	of weeks in the sem	ester
Code				d			10	_	lec	Ň	pra	-	18	17	4
	•			1	MAND	ATORY C	OMPON	ENTS							
ОК02	Foreign language of professional field		1, 2			4,5	135	64			64	71	2	2	
ОК02	Marketing and intellectual property protection in the IT industry		2			4	120	34	18		16	86		2	
ОК03	Information processes modeling methods in complex systems	1				4	120	36	18	18		84	2		
ОК04	Image processing methods and algorithms and computer vision	2				4	120	34	16	18		86		2	
OK05	Fuzzy models and methods in intelligent systems		1			4	120	36	18	18		84	2		
ОК06	Design of the complex information protection systems	3				3,5	105	32	16	16		73			8
ОК07	On-line analytical processing systems		2			3,5	105	34	16	18		71		2	
OKO	Modeling, analysis and automation of business processes	1				4	120	36	18	18		84	2		
OK09	Master's seminar		2			3	90	18			18	72		1	
OK10	Analysis and visualization of huge data sets (Big Data)	1				4	120	36	18	18		84	2		
OK1	Multi-agent systems and technologies	2				5	150	52	34	18		98		3	
OK12	Professional research practice		3			6	180	48		48		132			
OK13	Completion of a master's thesis					13,5	405					405			
	The total volume of mandatory educational components					63	1890	460	172	190	98	1430			
<u> </u>				2. OPTI	ONAL ED	UCATIO	NAL COM	NPONEN	ITS						
			2.1	Educatio	nal com	ponents	of stude	ents' free	e choice						
VB1	Course from the general list of the university		3			3	90	16	8		8	74			4
	(see ONU website)		<u> </u>			<u> </u>			•		•				-
VB2	Course for the mathematical competences development (see additional list / FMFIT website)	2				4	120	34	18		16	86		2	
VB3	Course for the IT competences development (see additional list / FMFIT website)		1			4	120	36	18	18		84	2		
	In total					11	330	86	44	18	24	244			

			2.2 Edu	icational compone	nts of th	e trainir	ng line						
VB4	Special course No. 1 (for the current year is determined by the state of the IT market)	1		4	120	36	18	18		84	2		
VR5	Special course No. 2 (for the current year is determined by the state of the IT market)		1	4	120	36	18		18	84	2		
VB6	Special course No. 3 (for the current year is determined by the state of the IT market)	2		4	120	34	16	18		86		2	
VB7	Special course No. 4 (for the current year is determined by the state of the IT market)	3		4	120	24	12	12		96		-	6
	In total	1		16	480	130	64	48	18	350			
101	The total volume of optional educational components			27	810	216	108	66	42	594			-
	TOTAL:		1	90	2700	676	280	256	140	2024	16	16	18

VI. SUMMARY TABLE

Distribution by years of study	1	2	Total	Guarantor Approved
Number of ECTS credits	60	30	90	Eugene MALAKHOV at the meeting of the Academic Council
Number of exams	8	2	10	Dean of the Face 2022
Number of credits	8	2	10	Yurii NITSUK
Number of course works/projects				Head of the editeational department
ducational practice				
Professional research practice		1	1	Vice-rector for scientific and pedagogical work Scientific Secretary
Certification		1	1	Oleksandr ZAPOROZHCHENKO

to		Distributio	on of hours p	er week by
ng		cour	ses and seme	esters
rdi		V co	urse	VI course
000	NAME OF THE EDUCATIONAL DISCIPLINE		Semesters	
Cipher according		1	2	3
phe		Number of	f weeks in th	e semester
Ci		18	17	4
	2 OPTIONAL EDUCATIONAL COMP	ONENTS		
	2.1 Educational components of students'	free choice		
VB1	Course from the general list of the university		2	
V D1	(see ONU website)		2	
VB2	Course for the mathematical competences development		2	
V D2	(see additional list / FMFIT website)			
VB3	Course for the IT competences development			4
, 15	(see additional list / FMFIT website)			*
	In total			

V. EDUCATIONAL PROCESS PLAN

	Disciplines from the general list of the university
	Civil defense and labor protection in the industry
VB1	Introduction to synergy
VDI	Quantum computing
	See ONU website
	Disciplines for the development of mathematical competences
	Numerical experiment
VB2	
	See FMFIT site
	Disciplines for the development of IT competences
	Expert systems
VB3	Technologies of virtualization in computer systems
	See FMFIT site