



MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE PETRO MOHYLA BLACK SEA NATIONAL UNIVERSITY

CURRICULUM

Level of higher education: second (master's) degree Educational qualification: master's degree in Software

Engineering

Duration of study: 1 year 4 months

Based on: bachelor's level of higher education

master's training in the field of knowledge 12 Information Technology

by specialty: 121 Software Engineering

Educational programme: Software Engineering

Distance form of education

I. SCHEDULE OF THE EDUCATIONAL PROCESS

se	S	epte	mb	er		Oct	obe	r		No	vem	ber			Dec	emb	er		Ja	nua	гу		F	ebri	uary		l	Mar	ch	\Box		Apı	ril	I		May	V.			Ju	ine				July	7			Aug	gust	Milana
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O	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		25 2	26 2	27	28 2	29 3	30 3	31 3	32	33 34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
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2	Р	Р	Р	P	Р	W	W	W	W	W	W	W	W	W	W	DW	DW																																		

Note: the number of rows is determined by the number of educational courses.

MARKING:

T - theoretical study, C - credit week; E - examination session; P - practice; H - holidays; W - writing a qualification work; DW - defense of qualification work.

AE - attestation exam; IW - independent work

- synchronous education

- asynchronous education

II. SUMMARY OF TIME BUDGET DATA, weeks

Course	Theoretical study	Ind. work	Credit week	Exam. session	Practice	Certification	Writing a qualif. work	Holiday	Total
1	33	1		3	2			13	52
2					5	2	10		17
Σ	33	1	0	3	7	2	10	13	69

III. PRACTICE

Name of the practice	Semester	Weeks
Assistant internship	2	2
Pre-certification internship	3	5

IV. CERTIFICATION

Name of o	certification	Form of certification	Semester
Qualifica	ation work	defense	3

				V. EDU	CATIO	NAL PRO	OCESS I	PLAN			LANCE SET SET SET SET SET SET SET SET	METEROPE AND SHALL PROPERTY OF SHALL					
D ROCKERSON CONSTRUCTION		1	Di	stribution	by semes	sters	70	A PARTICIPATION OF THE PARTICI	Nu	mber of h	ours			T-CHINAL PROPERTY.			
				T	1	urse	l ä		T	Auditory	,	T T		Lco	urse	II co	ourse
		department code					Number of ECTS credits	ount		in particular:		Independent work	Percentage of classroom classes		MANAGE (LOS). MENSONS MANAGES	r number	
№	The name of the academic component	men	Exams	Credits	sts	S	f EC	l am		in par	iicular:	dent	ge of cla	1	2	3	4
		ерап	Ex	Cre	projects	works	per o	The total amount	Total	synchronous education	asynchronous education	epen	ntage	Numb	er of weel	s in the s	emester
					-		H H	l E		ohro	chr	Ind	erce	15	18	15	
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			1	. NORMA	ATIVE A	CADEMI	C DISCH	PLINES		<u> </u>	-	L	Lanconne		110000		TON THE PROPERTY OF THE PARTY O
						ral trainir											
1	Professional foreign language	3		1			3	90	30	8	22	60	33%	2	and the second second second second	<u> </u>	
2	Professional pedagogy	26		1			3	90	30	8	22	60	33%	2			
3	Fundamentals of scientific research	26	2			***************************************	3	90	36	10	26	54	40%		2	<u> </u>	The state of the s
	Total		<u></u>				9	270	96	26	70	174		4	2		<u></u>
				1.2	. Professi	onal trair	ning cycle	AND REAL PROPERTY AND PARTY AND PARTY AND PARTY.	aparatan arang arang a	gamenacia de la compania de la comp	game production and the second	generalization and an extension const	aparana manana mana	ganta secundo a	-		-
1	Design of information systems	26	1			1	5	150	60	20	40	90	40%	4			
2	Artificial intelligence systems	26	1				5	150	60	20	40	90	40%	4			
3	Requirements for software	26		1			5	150	60	20	40	90	40%	4	-	ļ	
4	Methods of decision making	26		1			5	150	60	20	40	90	40%	4			-
5	Data Science methods in software engineering	26		1			4,5	135	60	20	40	75	44%	4			
6	Deep machine learning	26	2			2	6	180	72	20	52	108	40%		4		
7	Assistant internship	26		2*			3	90	-	_		90			-		-
8	Pre-certification internship	26	-	3*			7,5	225				225	AND DESCRIPTION OF THE PARTY OF		-		
9	Qualification work	26		-	_		15	450	and the second s	-	-	450		COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF			
	Total				-		56	1680	372	120	252	1308		20	4		
	Total according to the normative part		<u></u>				65	1950	468	146	322	1482		24	6	1	<u> </u>
				2. ELEC		ADEMIC ral trainir		LINES									
1	Discipline 1 (from the university catalog of courses)	1	T	2			5	150	54	15	39	96	36%		3	T	
	Total						5	150	54	15	39	96			3		
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1	Discipline 1	T		2		T	4	120	54	15	39	66	45%		3		
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3	Discipline 3			2		The second secon	4	120	54	15	39	66	45%		3		
4	Discipline 4		T	2		1	4	120	54	15	39	66	45%		3	T	
5	Discipline 5			2			4	120	54	15	39	66	45%		3		
NAME OF TAXABLE PARTY.	Applied system analysis	26															
	Methods of developing software systems	26															
	Digital transformation of business	17															
	Logistics analysis technologies	5															
	Decision-making in conditions of ambiguity and multicriteria	5															
MANDERS SMITH SANCES	Wireless computer networks	17					T. T										
	Big data processing software	26															
	Applied computer vision	26															

Fuzzy sets and fuzzy logic in data processing	5													
Methods and systems of machine learning	5													
Knowledge-oriented technologies of computational intelligence	5													
Risk modeling in socio-economic systems	5													
Intelligent decision support systems	5													
Digitization in the financial sphere	26													
Software engineering methods in Big Data	26													
Models and methods of scenario analysis	26													
Fuzzy models and methods in decision-making systems	5													
Scenario modeling	26													
Total					20	600	270	75	195	330		15		
Total according to the elective part					25	750	324	90	234	426		18		
RESULT														
The total number of	T				90	2700	792	236	556	1908				
Number of hours per week											24	24		
Number of exams		4									2	2		
Number of credits			13								5	7	1	
Number of course projects														
Number of courseworks				2							1	1		

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