MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

WORK CURRICULUM

for the 2023/2024 academic year

(Enrolment 2023)

APPROVED Specialty (code and name) full-time Form of study 184 Mining Vice-rector for educational work Igor Sikorsky Kyiv Polytechnic Institute according to the educational-professional program of master's training (specialization) 1 years 4 months Study duration Geoengineering Master Degree in Mining Educational degree Qualification Master Anatolii MELNYCHENKO Graduation department Department of Geoengineering 2023

Educational and Scientific Institute for Energy Saving and Energy Management

Faculty (institute)

			Vol	lume of		Nur	nher of	Auditory	, houre					(Contro	ol me	asures	ures			Distribution of auditory hours per week by courses and semesters								
			the	subject		Nui	iibei oi	Auditory	riiours				and	their	distril	butio	n by sem	y sem	esters		I course								
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2	Educational components	Name of departments						includir				Self-study			۱		_	_	work	. 					2 Semes 18 wee				
			ECTS Credits	= +		Lectures	Pra	ictical	Labo	ratory	٩	Self		100	jec	ž	and ork	or k	×	trac			cluding				cluding		
				General	Total	за НП з урахуван. Нд занять	за НП	з урахуван. Інд занять	за НП	з урахуван. Інд занять	Individual work		Exams	tsat alliboM	Course project	Coursework	calculation and graphic work	calculation graphic w	Home control	Essay, abstract	Total	Lectures	Practical	Laboratory	Total	Lectures	Practical	Laboratory	
1	2	3	4	5	6	7					9	10	11 1	2 1	3 14	15	16	16	17	18	19	20	21	22	23	24	25	26	
	1. Compulsory educational components																												
				Gei	neral 1	training	cycle																						
1	Intellectual Property and Patenting. Part 1. Intellectual Property Law	Department of of Intellectual Property and Private Law	1	30	18	12	6					12									1	0,67	0,33						
2	Intellectual Property and Patenting. Part 2. Patenting and acquisitions	Department of Machine Design	2	60	36	24	12					24	1	1							2	1,33	0,67						
3	Basics of Engineering and Sustainable Development Technologies	Power Supply Department	2	60	36	18	18					24	1	1	I						2	1	1						
4	Foreign Language for Business Communication Practicum	Department of English for Engineering 1	3	90	72		72					18	2	2 1	I					1	2		2		2		2		
5	Management of Startup Projects	Department of Economic Cybernetics	3	90	54	18	36					36	2	2 2	2										3	1	2		
		Total number of part 1.1	11	330	216	72 0	144	0	0	0	0	114	4	. 4	ı					1	7	3	4	0	5	1	4	0	
				Vo	catio	nal train	ing c	ycle																					
6	Surface Complex of Mining Enterprises	Department of Geoengineering	3	90	54	36	18					36	1	1	1		1	1			3	2	1						
7	Geocontrol of Mining Processes	Department of Geoengineering	3	90	54	36	18					36	1	1	ı						3	2	1						
8	Underground Enterprises Reconstruction	Department of Geoengineering	3,5	105	54	36	18					51	1	1	ı		1	1			3	2	1						
9	Specialized Course On Underground Construction	Department of Geoengineering	3,5	105	72	36	36					33	1	1	ı		1	1			4	2	2						
10	Computer-Aided Design System	Department of Geoengineering	3,5	105	54	18			36			51	1	1	ı		1	1			3	1		2					
1	Special Methods of Building	Department of Geoengineering	3,5	105	54	36	18					51	2	2	2					2					3	2	1		

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12	Municipal Underground Structures Engineering	Department of Geoengineering	3,5	105	36	18	1	8				•	69	1	1					2	1	1					
13	Municipal Underground Structures Engineering. Course project	Department of Geoengineering	1,5	45	0							4	45	1		1											I
14	Scientific Work on the Topic of Master's Thesis. Part 1. Fundamentals of the scientific research	Department of Geoengineering	2	60	27	9	1	8				3	33	1						1,5	0,5	1					
15	Scientific Work on the Topic of Master's Thesis. Part 2. Scientific Work on the Topic of Master's Thesis	Department of Geoengineering	2	60	18		1	8					42	2										1		1	
		Total number of part 1.2		870		225				36			47		7			4	1	,-	10,5	7	2	4	2	2	1
	TOTAL for the N	ORMATIVE educational components	40	1200	639	297	0 30)6	0	36	0 (0 5	61	3 11	11	1	0	4	0 2	26,5	13,5	11	2	9	3	6	1
			2.	Option	nal ec	lucati	onal c	ompo	onent	S																	
		Vocational training	cycle	e (Opti	onal	subje	tcs fro	m Fa	culty	/Dep	artmen	t cata	alog	ue)													
16	Modern building and engineering structures	Department of Geoengineering	4	120	54	36	1	8				(66	2	2			2						3	2	1	
17	Geotechnics	Department of Geoengineering	4	120	54	36	1	8				•	66	2	2			2						3	2	1	
18	Modern methods of construction project management	Department of Geoengineering	4	120	54	36	1	8					66	2	2									3	2	1	
19	Computer Modeling in Construction	Department of Geoengineering	4	120	54	36	1	8				•	66	2	2									3	2	1	
20	GIS (geographic information system)	Department of Geoengineering	4	120	54	36	1	8				6	66	2	2									3	2	1	
21	Construction economics	Department of Geoengineering	4	120	54	36	1	8				(66	2	2			2						3	2	1	
		Total number of part 1.4		720	324	216	10	8					96		6			3		0	0	0	0	18	12		I
	Total for the	ELECTIVE educational components		720		216	10						96					3		,				18	12		Ţ
		64	1920	963	513			0	36	0 (0 9	57	5 15	17	1	0	7	0 2		13,5	11	2	27	15	12	(
			Exams Tests										+					2	8			3	7	-	+		
TOTAL						Module test															Ĭ	9			Ė	8	İ
						Course project Coursework														1					-	\perp	Ŧ
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Approved by Institute Academic Council, Meeting protocol № 9 from 26.04. 2023.

Head of the Department		/Natalia ZUIEVSKA/	Dean of the Faculty (Director of the Institute)		/Oksana VOVK	/
	(nianec)	(RUE)		(nignec)	(FLE.)	