



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

APPROVED

by Academic Council
Igor Sikorsky Kyiv Polytechnic Institute
(meeting protocol № ___ from ___ 2023)

Head of Academic Council
_____ Mykhaylo ILCHENKO

Level Master **Field of Study** 18 Production and technologies **Form of study** full-time
(full-time, part-time)
Specialty 184 Mining **Faculty (Institute)** Educational and Scientific Institute for Energy Saving and Energy Management
Educational and Professional program _____ **Qualification** Master Degree in Mining
Geoengineering **Study duration** 1 years 4 months
Graduation Department Department of Geoengineering **Base level** Bachelor Degree
Academic group ГС-31mni

I. Schedule of educational process

YEAR	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																																																								
II	P	P	P	P	P	P	P	P	R	R	R	R	R	R	R	R	R	A	A	A	E	E	H	H																					E	E	H	H	H	H	H	H	H	H	H	H

Symbols: Learning period E Examination P Practice R Research A Assessment H Holiday

II. Summary table of time budget (Weeks)

YEAR	Learning period	Examination	Practice	Assessment	Research	Holiday	Total
I	36	4	8	3	7	12	52
II							18

III. Practice

Type of practice	Term (Semester)	Weeks
Practice	3	8

IV. Graduates assessment

Subjects	Form of graduates assessment (exam, graduation project)	Term (Semester)
Work of Master Thesis	The defense of Master's Thesis	3

V. Plan of Educational process

Code	Educational components	Distribution for terms (semesters)						ECTS Credits	Number of hours					Distribution of classroom studies hours per week			
		Exams	Final tests	Module test Calculation, graphic, calculation and graphic assignment	Home test	Essay, abstract	Total		Classroom studies			Self-study	1 year		2 year		
									Total number of classroom studies	Lectures	Practical		Laboratory	Terms			
														1	2	3	4
1. Compulsory educational components																	
General training cycle																	
3001.1	Intellectual Property and Patenting. Part 1. Intellectual Property Law						1	30	18	12	6		12	1			
3001.2	Intellectual Property and Patenting. Part 2. Patenting and acquisitions		1	1			2	60	36	24	12		24	2			
3002	Basics of Engineering and Sustainable Development Technologies		1	1			2	60	36	18	18		24	2			
3003	Foreign Language for Business Communication Practicum		2	1		1	3	90	72		72		18	2	2		
3004	Management of Startup Projects		2	2			3	90	54	18	36		36		3		
Total number of part 1.1			4	4		1	11	330	216	72	144	0	114	7	5		
Vocational training cycle																	
Π001	Surface Complex of Mining Enterprises		1	1	1		3	90	54	36	18		36	3			
Π002	Geocontrol of Mining Processes		1	1			3	90	54	36	18		36	3			

ΠΟ03	Underground Enterprises Reconstruction	1		1	1			3,5	105	54	36	18		51	3			
ΠΟ04	Specialized Course On Underground Construction		1	1	1			3,5	105	72	36	36		33	4			
ΠΟ05	Computer-Aided Design System		1	1	1			3,5	105	54	18		36	51	3			
ΠΟ06	Special Methods of Building	2		2			2	3,5	105	54	36	18		51		3		
ΠΟ07	Municipal Underground Structures Engineering	1		1				3,5	105	36	18	18		69	2			
ΠΟ08	Municipal Underground Structures Engineering. Course project		1					1,5	45	0				45	x			
ΠΟ09.1	Scientific Work on the Topic of Master's Thesis. Part 1. Fundamentals of the scientific research		1					2	60	27	9	18		33	1,5			
ΠΟ09.2	Scientific Work on the Topic of Master's Thesis. Part 2. Scientific Work on the Topic of Master's Thesis		2					2	60	18		18		42		1		
ΠΟ10	Practice		3					14	420	0				420			x	
ΠΟ11	Master's Thesis Implementation							12	360	0				360				
	Total number of part 1.2	3	8	7	4		1	55	1650	423	225	162	36	1227	19,5	4		
	TOTAL for the NORMATIVE educational components	3	12	11	4	0	2	66	1980	639	297	306	36	1341	26,5	9	0	0
2. Optional educational components																		
Vocational training cycle (Optional subjects from Faculty/Department catalogue)																		
ΠΒ01	Educational component 1 F	2		2	2			4	120	54	36	18		66		3		
ΠΒ02	Educational component 2 F	2		2	2			4	120	54	36	18		66		3		
ΠΒ03	Educational component 3 F		2	2				4	120	54	36	18		66		3		
ΠΒ04	Educational component 4 F		2	2				4	120	54	36	18		66		3		
ΠΒ05	Educational component 5 F		2	2				4	120	54	36	18		66		3		
ΠΒ06	Educational component 6 F		2	2	2			4	120	54	36	18		66		3		
	TOTAL of ELECTIVE educational components	2	4	6	3			24	720	324	216	108	0	396		18		
	TOTAL	5	16	17	7	0	2	90	2700	963	513	414	36	1737	26,5	27	0	0
	Exams														2	3		
	Final tests														8	7	1	
	Courseworks																	
	Course projects														1			
	Module test														9	8		
	Calculation, graphic, calculation														4	3		
	Home test																	
	Essay, abstract														1	1		

Head of the SMC _____ / Oksana VOVK /

Head of the Department _____ /Natalia ZUIEVSKA /

Dean of the Faculty (Director of the Institute) _____ /Oksana VOVK/