MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

CURRICULUM

(Enrolment 2021)

APPROVED

by Head of Academic Council

Igor Sikorsky Kyiv Polytechnic Institute

_____Mykhaylo ILCHENKO

_____2021

Level: Master (name of the level)

Speciality: 184 Mining (cipher and specialty name)

Educational and Scientific program: Geoengineering

Graduation Department: Department of Geoengineering

Form of study: full-time

Faculty (Institute): Institute for Energy Saving and Energy Management

Qualification: Master Degree in Mining

Study duration: 1 years 9 months

Base level: Bechelor Degree

I. Schedule of educational process

YEAR	September				October					November					December				January					January					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																			E	E	H	H																				E	E	H	H	H	H	H	H	H	H	H	H	H	H
II																			E	E	H	H	P	P	P	P	P	R	R	R	R	R	R	R	R	R	R	R	A													

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				12	52
II	18	2	5		12	2	39

III. Practice

Type of practice	YEAR	Weeks
Scientific and Research Practice	4	5

IV. Graduates assessment

Subjects	Form of graduates assessment (exam, graduation project)	YEAR
Work of Master Thesis	The defense of Master's Thesis	4

V. Plan of Educational process

The code for the EPP (EDUCATIONAL-PROFESSIONAL PROGRAM)	Name of the discipline	Distribution for terms (semesters)				ECTS Credits	Number of hours					
		Exams	Tests	Individual task	Module test		General amount	Auditory				Self-study
								Total	including			
									Lectures	Practical	Laboratory	
1	2	3	4	5	6	7	8	9	10	11	12	13
1. Compulsory educational components												
1.1. General training cycle												
ЗО 1	Intellectual Property and Patenting		1		1	3	90	54	36	18		36
ЗО 2	Basics of Engineering and Sustainable Development Technologies		1		1	2	60	36	18	18		24
ЗО 3	Practical course of Foreign Language Scientific Communication		2,3	1	1,3	4,5	135	108		108		27
ЗО 4	Management of startup projects		2		2	3	90	54	18	36		36
ЗО 5	Pedagogics of Graduate School		3		3	2	60	36	18	18		24
ЗО 6	Methods of Mathematical Optimization		3		3	4	120	54	36	18		66
ЗО 7	Mathematical Modeling of Systems and Processes		3	3	3	4	120	54	36	18		66
	Total number of part 1.1		8	2	8	22,5	675	396	162	234		279
1.2. Vocational training cycle												
ПО 1	Geotechnical Structures Construction	1		1	1	4	120	54	27	27		66
ПО 2	Reconstruction Underground Enterprises	1		1	1	4	120	54	27	27		66
ПО 3	Specialized Course On Underground Construction		1	1	1	4	120	72	36	36		48
ПО 4	Computer-Aided Design System		1	1	1	4	120	72	27		45	48
ПО 5	Special Methods of Building	2		2	2	4	120	54	27	27		66
ПО 6	Municipal Underground Structures Engineering	1			1	3,5	105	36	18	18		69
ПО 6	Course project in Municipal Underground Structures Engineering		1			1,5	45					45
ПО 7	Modern Methods of Engineering Survey	3		3	3	3	90	36	18	18		54
ПО 8	Scientific Work on the Topic of Master's Thesis		1,3	2		7,5	225	45	9	36		180
ПО 9	Scientific and Research Practice		4			9	270					270
ПО 10	Master's Thesis Implementation					17	510					510
	Total number of part 1.2	5	6	7	7	61,5	1845	423	189	189	45	1422
	TOTAL for the NORMATIVE educational components	5	14	9	15	84	2520	819	351	423	45	1701
2. Optional educational components												
2.1. Vocational training cycle (Optional subjetcs from Faculty/Department catalogue)												
ПВ 1	Educational Component 1 of D-catalogue	2		2	2	4	120	54	27	27		66
ПВ 2	Educational Component 2 of D-catalogue	2		2	2	4	120	54	27	27		66
ПВ 3	Educational Component 3 of D-catalogue		2		2	4	120	54	27	27		66
ПВ 4	Educational Component 4 of D-catalogue		2		2	4	120	54	27	27		66
ПВ 5	Educational Component 5 of D-catalogue		2		2	4	120	54	27	27		66
ПВ 6	Educational Component 6 of D-catalogue		2	2	2	4	120	54	27	27		66
ПВ 7	Educational Component 7 of D-catalogue	3		3	3	6	180	90	45	45		90
ПВ 8	Educational Component 8 of D-catalogue	3		3	3	6	180	90	45	45		90
	Total number of part 2.1	4	4	5	8	36	1080	504	252	252		576
	Total for the ELECTIVE educational components	4	4	5	8	36	1080	504	252	252		576
	TOTAL	9	18	14	23	120	3600	1323	603	675	45	2277

Approved by University Academic Council, Meeting protocol № _3_ from March 15, 2021

Head of the Department _____ Anatoliy KRUCHKOV

Dean of the Faculty (Director of the Institute) _____/. Serhii DENYSIUK