MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

(Enrolment 2017)

APPROVED
by Rector of Igor Sikorsky Kyiv Polytechnic Institute

_____ Michael Zgurovsky

_____ 2017

Level	Master	Form of study	full-time (full-time, part-time)
Speciality	101 Ecology	Faculty (Institute)	Chemical Engineering
Specialization	Environmental Safety	Qualification	Engineer for Technogenic and Environmental Safety, Master Degree in Ecology
Profile program	Educational and Scientific	Study duration	1 year 9 months
Graduation Department	Ecology and Plant Polymers Technology	Base level	Bachelor degree

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																			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	R	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	2019	8

IV. Graduates assessment

Subjects	Form of graduates assessment (exam, graduation project)	YEAR
Master's Thesis Implementation	Master's Thesis Defence	2019

V. Plan of Educational process

Code	Subjects	Distribution for terms (semesters)				ECTS Credits	Number of hours				
		Exams	Final tests	Course projects	Coursework		Total	Lectures/practical lessons			Self-study
								Lectures	Practical	Laboratory	
1	2	3	4	5	6	7	8	9	10	11	12
I. GENERAL TRAINING											
I.1. Basic training (major courses)											
1	Patenting and Intellectual Property		1			3	90	36	18		36
2	Mathematical Optimization Methods	3				4	120	36	18		66
3	Modelling of Processes and Systems	3				4	120	36	18		66
4	Environmental Management and Audit	1				4	120	36	18		66
	total number of part I.1	3	1			15	450	144	72		234
I.2. Basic training (optional courses)											
5	Subjects on Sustainable Development Problems		1			2	60	18	18		24
6	Workshop on Scientific Communication in Foreign Language		2,3			4,5	135		108		27
7	Pedagogy Subjects		3			2	60	30	6		24
8	Management Subject		2			3	90	18	36		36
	total number of part I.3		5			11,5	345	66	168		111
I.3. Science Research (optional courses)											
9	Scientific Work on the Topic of Master's Thesis		1g,3			7,5	225	9		36	180
10	Pre-diploma Practice		4g			9	270				270
11	Master's Thesis Implementation					21	630				630
	total number of part I.3		2g+1			37,5	1125	9		36	1080
	TOTAL IN GENERAL TRAINING	3	2g+7			64	1920	219	240	36	1425
II. VOCATIONAL TRAINING											
II.1. Vocational and practical training (major courses)											
12	Environmental Standardization and Certification	2				3	90	36			54
13	Modern Approaches to Environmental Protection	2				4	120	36	18		66
14	Perspective Research Directions in Environmental Protection		1g,2		2	11,5	345	9		144	192
15	Scientific and Research Work on Environmental Protection		3g			6,5	195			54	141
	total number of part II.1	2	2g+1		1	25	750	81	18	198	453
II.2. Vocational and practical training (optional courses)											
16	Subject on Mathematical Statistics in Ecology	1			1	8	240	36	18	54	132
17	Subject on Information Technologies		2g			3	90	18	18		54
18	Subject on Waste Management	1				4,5	135	36		36	63
19	Subject on Alternative Energy Sources	2				4	120	36	18		66
20	Processing		3g		3	5,5	165		36		129
21	Subject on Environmental Inspection		2g			3	90	27	9		54
22	Subject on Project and Grant Management	3				3	90	18	18		54
	total number of part II.2	4	3g		2	31	930	171	117	90	552
	TOTAL IN VOCATIONAL TRAINING	6	5g+1		3	56	1680	252	135	288	1005
	TOTAL	9	7g+8		3	120	3600	471	375	324	2430

Approved by Faculty Academic Council, Meeting protocol № ____ from April 25, 2017

Head of the Department _____/ Gomelya M.D. /

Dean of the Faculty _____/ Panov E.M. /