

## MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

## CURRICULUM

APPROVED		(Enrolment 2017)		
by Rector of Igor Sikorsky Kyiv Polytechnic Institute	Level	Master	Form of study	full-time (full-time, part-time)
	Speciality	161 Chemical Technology and Engineering	Faculty (Institute)	Chemical Technology
Michael Zgurovsky	Specialization		Qualification	2146.2 - Industrial Engineer (Chemical Technologies) 2149.2 - Research
2017		Chemical Technologies of Inorganic Ceramic Materials		Engineer
	Profile program	Chemical Technologies of Inorganic Ceramic Materials	Study duration	1 year 9 month
	Graduation Department	Department of Chemical Technology of Ceramic and Glass	Base level	Bachelor Degree

																				I.	Scl	hed	ule (	of e	duc	atio	nal	pro	cess																			
AR		Se	otembe	er		Oct	ober			N	loven	nber			Decem	ber			Ja	nuar	У			Janu	lary			Mar	rch		A	April			May			J	lune				July			Α	ugus	
ΎΕ	1	2	3	4	5	6	7 8	3 9	9 10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31 3	32 33	34	35	36	37 3	8 3	9 40	41	42	43	44	45	46	47	48 4	9 5	0 51	52
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Ш																		Е	Е	Н	Н	Р	Р	ΡF	2	P I	R	R	R F	R	R	R	R	RF	R	A												
Sy	mbo	ls:			Learn	ing perio	bd		E Exa	amina	ation			Р	Practic	е		L	R	Rese	earch			A	Asses	ssmei	nt	L	H	Holida	ay																	

	I	I. Sumr	nary table	e of time	e budget (V	Veeks)	
YEAR	Learning period	Examination	Practice	Assessment	Research	Holiday	Total
Ι	36	4				12	52
Ш	18	2	5		12	2	39

	III. Practi	ce	
	Type of practice	YEAR	Weeks
Re	esearch Practice	2	5

	 IV. Grad	uates assessment	
ks	Subjects	Form of graduates assessment (exam, graduation project)	YEAR
	Scientific Research on the Thesis Topic	Defence of Master's Thesis	2

-				V. I	Plan of	Educa	tional pr	ocess									
		Di	stributio (seme		ms			Numb	er of ho	ours		v	Distribution of classroom hours per week and				
				cts	v	Credits			ires/pract lessons	ical		work	semester courses				
Code	Subjects	s	sts	oje	٥.	Cre				∧ pr		lal	1	1	2		
ပိ		i me	ţê	pro	e v	ŝ	Total	es	cal	LO L	stu	idt		Seme	esters		
		Exams	Final tests	Course projects	Coursework	ECTS	Ĕ	ectures	Practical	aboratory	Self-study	Individual	1	2	3	4	
			ίΞ	no	ပိ			Lec L	Pra	abc	Ň	=	Nu	umber of wee	ks per seme	ster	
				Ŭ				_	_	Ľ			18	18	18	17	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
				Ι.	GENE	RAL T	RAININ	G									
			I	.1. Bas	ic trair	ning (r	najor c	ourses	)								
1/ I	Patenting and Copyright Law		1			3	90	54	36	18		36	3				
2/ 1	Mathematical Optimization Methods	3				4	120	54	36	18		66			3		
3/ I	Process Control in Chemical Engineering	3				4	120	54	36	18		66			3		
	total number of part I.1	2	1			11	330	162	108	54		168	3		6		
			1.2	2. Basic	c traini	ng (o	ptional	course	es)								
1/ II	Subject on Fundamentals of Sustainable Development of Society		2			2	60	36	18	18		24		2			

2/ II	Subject on Pedagogical Skills		3			2	60	36	30	6		24			2	
	, ,,		-							-				-	-	
3/ II	Subject on Innovation Management		2д			3	90	54	18	36		36		3		
4/ II	Subject on Advanced Foreign Language for Professional and Scientific Communication		2, 3			4,5	135	108		108		27	2	2	2	
	total number of part I.2		5			12	345	234	66	168		111	2	7	4	
			1.3	Basic	traini	ng (oj	otional	course	s)						-	-
1/ III	Scientific Workon the Topic of Master's Thesis		1д, 3			7,5	225	45	9	36		180	1,5	1		
2/ III	Pre-diploma Practice		4д			9	270					270				Х
3/ III	Master's Thesis Implementation					21	630					630				Х
	total number of part I.3		3			38	1125	45	9	36		1080	1,5	1		
	TOTAL IN GENERAL TRAINING	2	9			60	1800	441	183	258		1359	6,5	8	10	
				II. V	OCATI		TRAIN	ING								
		1	Vocati		-	-		-	r cour	ses)						
	Computer technologies in manufacturing			onar a						, 						
1/c	processes of inorganic ceramic materials		1д			4	120	72	18	18	36	48	4			
2/c	Innovative technologies in the production of ceramic materials	1			1	7,5	225	90	36		54	135	5			
3/c	Innovative technologies in the production of special and household glass	1				7	210	90	36		54	120	5			
4/c	Technological design of ceramics and glass manufacturing		2д	2		4,5	135	54	18		36	81		3		
5/c	New ceramic materials and methods of their synthesis	2				6	180	81	36		45	99		4,5		
6/c	New glass-like materials and methods of their synthesis	2				6	180	81	36		45	99		4,5		
7/c	Instrumental methods of research in ceramics and glass technology	2				5	150	72	36	18	18	78		4		
	total number of part II.1	5	2	1	1	40	1200	540	216	36	288	660	14	16		
		II.2. \	/ocatio	nal and	d pract	tical tr	aining	(option	al cou	urses)						
1/св	Educational discipline of modern physical chemistry of inorganic materials	1				5	150	63	18		45	87	3,5			
2/св	Educational discipline on modern problems of silicate materials science	3			3	10	300	108	36	18	54	192			6	
3/св	Educational discipline of information support of scientific research		3д			5	150	72	36		36	78			4	
	total number of part II.2	2	1		1	20	600	243	90	18	135	357	3,5		10	
	TOTAL IN VOCATIONAL TRAINING	7	3	1	2	60	1800	783	306	54	423	1017	17,5	16	10	
	TOTAL	9	12	1	2	120	3600	1224	489	312	423	2376	24	24	20	

Approved by Faculty Academic Council, Meeting protocol № \_4\_ from April 24, 2017

Head of the Department / Kornilovych B.Yu. /

Dean of the Faculty \_\_\_\_\_/ Astrelin I.M. /