



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 <small>(full-time, part-time)</small>
Speciality	161 Chemical Technology and Engineering	Faculty (Institute)	Chemical Technology
Specialization	Chemical Technologies of Inorganic Ceramic Materials	Qualification	2146.2 - Industrial Engineer (Chemical Technologies)
Profile program	Chemical Technologies of Inorganic Ceramic Materials	Study duration	1 year 4 month
Graduation Department	Department of Chemical Technology of Ceramic and Glass	Base level	Bachelor 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																																																											
II	P	P	P	P	P	P	P	P	P	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				

Symbols: Learning period Examination Practice Research Assessment Holiday

II. Summary table of time budget (Weeks)

YEAR	Learning period	Examination	Practice	Assessment	Research	Holiday	Total
I	36	4				12	52
II			8		10		18

III. Practice

Type of practice	YEAR	Weeks
Pre-diploma Practice	2	8

IV. Graduates assessment

Subjects	Form of graduates assessment (exam, graduation project)	YEAR
Qualifying Master's Thesis	Defence of Master's Thesis	2

V. Plan of Educational process

Code	Subjects	Distribution for terms (semesters)				ECTS Credits	Number of hours				Самостійна робота	Distribution of classroom hours per week and semester courses								
		Exams	Final tests	Course projects	Coursework		Total	Lectures/practical lessons				Self-study	1		2					
								Lectures	Practical	Laboratory			1	2	3	4				
		Semesters													1	2	3	4		
		Number of weeks per semester													18	18				

I. GENERAL TRAINING

I.1. Basic training (major courses)

1/I	Patenting and Intellectual Property	1	3	90	54	36	18	36	3			
total number of part I.1		1	3	90	54	36	18	36	3			

I.2. Basic training (optional courses)

1/II	Fundamentals of Sustainable Development of Society	2	2	60	36	18	18	24		2		
2/II	Foreign Language for Specific Purposes: 1. Foreign Language for Scientists 2. Foreign Language for Scientists	2	3	90	72		72	18	2	2		
3/II	Management in Manufacturing	2д	3	90	54	18	36	36		3		
total number of part I.2		3	8	240	162	36	126	78	2	7		

I.3. Basic training (optional courses)														
1/III	Scientific Research on the Thesis Topic		1д, 2		4	120	45	9	36		75	1,5	1	
2/III	Research and Research Assistance Practices		3д		14	420					420			X
3/III	Qualifying Master Thesis				16	480					480			X
total number of part I.3			3		34	1020	45	9	36		975	1,5	1	
TOTAL IN GENERAL TRAINING			7		45	1350	261	81	180		1089	6,5	8	
II. VOCATIONAL TRAINING														
II.1. Vocational and practical training (major courses)														
1/c	Computer technologies in manufacturing 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. Vocational and practical training (optional courses)														
1/cB	Educational discipline in physics and chemistry of modern inorganic materials	1			5	150	63	18		45	87	3,5		
total number of part II.2		1			5	150	63	18		45	87	3,5		
TOTAL IN VOCATIONAL TRAINING		6	2	1	1	45	1350	603	234	36	333	747	17,5	16
TOTAL		6	9	1	1	90	2700	864	315	216	333	1836	24	24

Approved by Faculty Academic Council, Meeting protocol № 4 from April 24, 2017

Head of the Department _____ / Kornilovych B.Yu. /

Dean of the Faculty (Director of the Institute) _____ / Astrelin I.M. /