

Polytechnic Institute

____ 2017

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

by Rector of Igor Sikorsky Kyiv

ש		ν,	Lill Ollificial 2017)			
korsky Kyiv stitute	Level	Master		Form of study		full-time (full-time, part-time)
liahaal Zauravalar	Speciality	Automation and Computer Integra	ated Technologies	Faculty of Cher	nical Technology	,
lichael Zgurovsky	Specializati	on Computer-Integrated Techno Chemical Production		Qualification		nation and Compute d Technologies
	Profile prog	ram Educational and Profess	sional	Study	duration	1 year 4 months
Graduation Departm	ent Depa	rtment of Cybernetics of Chemical	Technology Processes	Base	level	Bachelor degree

	I. Schedule of educational process																																																			
	Y Y	Sep	tembe	er		C	ctob	er			N	ovem	ber			Dece	mber	,		J	anua	ry			Febr	ruary			Ma	ch			Αp	oril			М	ay			Ju	ine				July				Augu	ıst	
ļ	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 5	52
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II. Summary table of time budget (Weeks)														
YEAR	Learning period	Examinatio n	Practice	Assessme nt	Research	Holiday	Total							
1	36	4				12	52							
=			10		8		18							

_ Michael Zgurovsky

III. Practice											
Type of practice	YEAR	Weeks									
Pre-diploma	2	8									

IV. Graduates assessment											
Subjects	Form of graduates assessment (exam, graduation project)	YEAR									
Master Thesis	Graduation project	2									

	V. Plan of Educational proc	ess									
		Dis	tributio seme)	n for te esters)	rms			Numl	ber of I	nours	
				ts		lits		Lect	ures/prac	tical	
Code	Subjects	Exams	Final tests	Course projects	Coursework	ECTS Credits	Total	Lectures	Practical	Laboratory	Self-study
1	2	3	4	5	6	7	8	9	10	11	12
	I. GENERAL TRAINING		<u>, </u>								
1/I	I.1. Basic training (major co	urses	1			3	90	36	40		36
1/1	Patent science and Intellectual Property		1			3	90	36	18		36
2/I	Modern Theory of Automatic Control 1. Applied Automatic Control Theory 2. Synthesis of Control Systems Software	2	1			8	240	36	36	36	132
	total number of part I.1	1	2			11	330	72	54	36	168
	I.2. Basic training (optional of	course	es)								
3/I	Academic discipline of Sustainable Development Problems		2			2	60	18	18		24
4/I	Academic discipline of Management		2			3	90	18	36		36
5/I	Foreign Language for Specific Purposes		2			3	90		72		18
	total number of part I.3		3			8	240	36	126		78
	I.3. Science Research (optional	l cou	rses)				1	1	ı		
7/I	Scientific Research 1. Fundamentals of Scientific Research 2. Reserch		1, 2			4	120	9	36		75
8/I	Pre-diploma Practice		4			14	420				420
9/I	Master Thesis Implementation					16	480				480
	total number of part I.3		3			34	1020	9	36		975
	TOTAL IN GENERAL TRAINING	1	8			53	1590	117	216	36	1221
	II. VOCATIONAL TRAINI										
	II.1. Vocational and practical training	_	r cour	ses)	1	1	1				
1/vm	System Analysis	1			1	8	240	36	36	36	132
2/vm	Modeling of Energy Saving and Ecological Systems	1				4	120	18	18	18	66
3/vm	Optimization of Complex Technological Systems 1. Optimization of Complex Technological Systems' Methods 2. Optimization of Complex Technological Systems' Applied Problems	2	1			9	270	54	36	45	135
4/vm	Sustainable Automated Production Complexes		2		2	4	120	36		18	66
	total number of part II.1	3	2	0	2	25	750	144	90	117	399
	II.2. Vocational and practical training (option	nal cou	ırses)			,				
1/vo	Academic discipline of Modeling Objects and Systems in Industry	1				4	120	27		27	66
2/vo	Academic discipline of Artificial Intelligence	2				5	150	36	18	18	78
3/vo	Academic discipline of Automation Systems' Standardization		2			3	90	18	27		45
	total number of part II.2	2	1	0	0	12	360	81	45	45	189
	TOTAL IN VOCATIONAL TRAINING	5	3	0	2	37	1110	225	135	162	588
	TOTAL	6	11	0	2	90	2700	342	351	198	1809

Approved by Faculty Academic Council, Meeting protocol №4 from April 25, 2017

Head of the Department	/_ Dr. T. Bo	jko	1	Dean of the Facul	ty/Prof. I.	Astrelin/