

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

(Enrolment 2020)

Internship hip YEAR

Weeks

Type of Internship

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by Acad	dem	ic Co	oun	cil											Le	vel					Ph	ıD																		F	orr	n o	fst	ud	у		fu	II-tir	me					
lgor Sik								stit	ute																		_																							-time)				_
(meetin	g p	rotoc	ol	Nº .	f	ron	n			_ 20	020)			Sp	eci	ality	/	_	A	ıton	nat	ion	anc	d co	omį	put	er i	inte	gra	ted	tec	hnc	olog	gies			_		S	tuc	ly c	lur	atic	on		4 y	ears	s					
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	Mykhaylo ILCHENKO							Automation and computer integrated technologies Educational compu											one	nent 48 ECTS Credits																																		
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	AR		Ос	tobe	r			Nove	embe	r		De	cem	ber			Jar	nuary	,		Feb	ruar	у		N	March	h			Α	pril				Ma	/			Jun	9	Т		_	July			Т	Au	ıgust			Sept	tembe	ır
	YE	1 :	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			20			23	24	4 2	5 2	26	27	28 2	29	30	31	32	33	34	35 3	36 3	7	38 3	9 4	40	41			44			47	48	49	50	51	52
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3	Symbols: Learning period									Е	Exa	amina	tion			Ι	Inte	rnsh	ip		R	Re	seard	ch		R	TR	lepo	rt		L	A	Asses	ssme	ent	Ţ	Н	lolida	У															
	I. Educational component																																																					

I 28	5 9 42					F	Pedagogic	al	2		4				
II 24	5 4 9 42														
	Plan of E	ducation	onal pr	ocess											
		Dis		n for te	rms		Number of hours								
a			w	ask	st	edits		Lect	ures/prac lessons	tical	_				
Code	Educational components	Exams	Final tests	Individual task	Module test	ECTS Credits	Total	Lectures	Practical	Laboratory	Self-study				
1	2	3	4	5	6	7	8	9	10	11	12				
	1. Normative components														
1.1. General scientific (philosophical) training cycle															
N1	Philosophical principles of scientific activity 1. Scientific worldview and scientist's ethical culture 2. Philosophical epistemology	2	1	2	1	6	180	31	49		100				
	1.2. Language training cycle														
N2	Foreign language for scientific activity 1. Foreign language for scientific research 2. Foreign language for scientific communication	2	1	1	2	6	180		75		105				
	1.3. Special kr	owled	ige tra	aining	cycle										
N3	Research methodology		2		2	4	120	27	27		66				
N4	Special sections of the automatic control theory	3			3	4	120	26	26		68				
N5	Control systems software and hardware	4			4	4	120	18		36	66				
N6	Objects and control systems modeling and optimization	4			4	4	120	18	36	Щ	66				
	1.2. Reserch cycle														
N7	Scientific and innovative activities organization		1	1	1	4	120	26	26		68				
N8	Pedagogical internship		3			4	120				120				
1	TOTAL of NORMATIVE educational components	5	5	3	7	36	1080	146	239	36	659				
	2. Elect	ive co	mpor	ents											
V1	The course of the personal post-graduate research topic		3		3	6	180	39	39		102				
V2	The course of the personal post-graduate research topic		4		4	6	180	36	36		108				
	TOTAL of ELECTIVE educational components		2		2	12	360	221	314	36	869				
	TOTAL	5	7	3	9	48	1440	221	314	36	869				

	II. Scientific component											
YEAR	The content of the graduate student's scientific work	Forms of control (Reporting)										
1st year	Selection and substantiation of the personal scientific research topic, determination the content, performance terms and volume of scientific vorks; selection and substantiation the personal research methodology, review, analysis and approaches that have developed in modern science in the chosen field. Preparation and publication of at least one article (usually a review) in scientific professional publications (domestic or foreign) about the research topic, taking part in scientific and practical conferences (seminars) with abstracts publication.	Approval the post-graduate student's work individual plan at the institute / faculty academic council, reporting about the progress according to the individual post-graduate student's plan twice a year.										
2nd year	Conducting own research under the supervisor guidance, which includes solving research problems using a set of theoretical and empirical methods. Preparation and publication of at least 1 article in scientific professional publications (domestic or foreign) on the research topic; participation in scientific and practical conferences (seminars) with the publication of abstracts.	Reporting about the progress according to the individual post-graduate student's plan twice a year.										
3rd year	Analysis and generalization of the personal scientific research obtained results, obtained results scientific novelty substantiation, their theoretical and / or practical significance. Preparation and publication of a least 1 article in scientific professional publications on the research topic; participation in scientific and practical conferences (seminars) with the abstracts publication.	Reporting about the progress according to the individual post-graduate student's plan twice a year.										
4th year	Arrangement the post-graduate student scientific achievements in the dissertation form, summing up concerning the coverage completeness of dissertation results in scientific articles according to the current requirements. Obtained results implementation and preparing the supporting documents. Documents submission for dissertation preliminary examination. Preparation of a scientific report for final certification (defense of the dissertation).	Reporting about the progress according to the individual post-graduate student's plan twice a year. Providing the summary about the scientific novelty, theoretical and practical significance of the dissertation results.										

Head of the Scientific and Methodical Board of Speciality ______/ Prof. Anatoliy ZHUCHENKO