

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

Working CURRICULUM

for 2024/ 2025 studying year, enrollment 2021

	Speciality	151 Automation and Computer-Integrated Technologies
Anatolii MELNYCHENKO	Educational Program	Automation hardware and software
" 2024 p.	Level	Bachelor
•	Graduation Department	Automation hardware and software Department

Institute Faculty of Chemical Engineering Form of study Full-time Study duration 3yrs. 10mth .(4 e.y.) Qualification

Bachelor of Automation and Computer-Integrated Technologies

		ent		ber of dents		ıbject nount				Н	ours				dy hours	Control measures and their distribution by semesters Hours distribution by semesters 4rd LA-1 (8:48, C-2); L4-12 (8			emest 4rd ye	ters ear											
Code	Subject	Department		ŧ				Lectu	res	Pra	includir actice		vorks	ţ.	s self-study		t t		ject	ork	GW		,		h Sem 18 we inc		#		h Seme 9 week		
		PG	Budget	Contract	ECTS	Hours	Total	according to Study Plan	Ind. Work with student	according to Study	Ind. Work with student	according to Study Plan	Ind. Work with student	Ind. Work w student	Student's	Exam	Final test	MCW	Course project	Course Work	CGW, CW, GW	HCW	Abstracs	Total	Lectures	Practices	Lab works	Total	Lectures	Practices	Lab works
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 2	29	30	31	32
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-	Foreign Language for Professional Purposes. Part 2	EE2	65	12	3	90	54			54				0	36	8		7					_	2		2	4	2	_	2	
-	Economics and Production Organization	IE	65	12	4	120	72	36		36				0	48		7	7				7	_	_		2	_	4			_
3	abor Safety and Civil Defence	LSCP	65	12	4	120	72	36		28		8		0	48		7	7			-+	7	\rightarrow	_	_		0,5	4			
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4	Automatic Control Theory. Part 2. Modern Control Theory	AH&S	65	12	5	150	72	Vocatio	onai t	rainir	ig cyci	e 36	l	0	78	7		7			- 1		_	4	2		2	\neg	$\neg \tau$		
-	Course Work in Automatic Control Theory	AH&S	65	12	1	30	0	36				36		0	30	'	7	'		7				4	-		_	-	-		\dashv
\vdash	Automation of Technological Processes and Production	AH&S	65	12	6,5	195	90	36		36		18		0	105	7	•	7		-				5	2	2	1	+	-+		_
7	Automation of Technological Processes and Production.	AH&S	65	12	1	30	0	30		30		10		0	30	,	8	•		8			1	9	_	-	Ť	+			_
-	Human-Machine Systems	AH&S	65	12	3,5	105	54	18		18		18		0	51	8		8				8	7				_	3	1	1	1
9 1	ndustrial Practice	AH&S	65	12	6	180	0							0	180								T		\exists						
10	Diploma Design	AH&S	65	12	6	180	0							0	180								T		\exists						
	TOTAL of Professional Educational Cor	nponents			29	870	216	90	0	54	0	72	0	0	654								T	9	4	2	3 :	3	1	1	1
						2	. Electi	ive edu	catio	nal co	mpon	ents																			
11	Typical technological control objects	AH&S			4	120	54	18		36				0	66		7	7				7		3	1	2					
12	Operations research in control systems	AH&S			4	120	54	18		36				0	66		7	7				7		3	1	2					
_	Modeling of chemical and technological processes	AH&S			4	120	54	18		36				0	66		7	7				7		3	1	2					
14	Optimization methods and the basis of finding optimal solutions	AH&S			4	120	54	18		36				0	66		7	7				7				2					
-	Software for modeling control systems	AH&S			4	120	54	18		36				0	66		7	7				7		3	1	2		_			
	computer-integrated technological complexes	AH&S			4	120	54	18		36				0	66		8	8				8			_			6	2	4	
17	Fundamentals of complex systems and automation systems eliability	AH&S			4	120	54	18		36				0	66		8	8				8								4	
\vdash	ndustrial Internet of Things	AH&S			4	120	54	18		36				0	66		8	8				8	4		_			_	_	4	
-	Methods of technological systems structures synthesis	AH&S			4	120	54	18		36				0	66		8	8			_	8			\dashv			_	_	4	
\vdash	Optimization of control systems	AH&S			4	120	54	18		36				0	66		8	8				8	_		4					4	_
\vdash	Neural networks in automated systems	AH&S			4	120	54	18		36				0	66		8	8		_	_	8			+		_	_	_	4	
22	Optimization of technological processes	AH&S			4	120	54	18	_	36			_	0	66		8	8			_	8			_		_	-	_	4	_
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						Final Tests						10							5				5								
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(General Military Science, Tactical and Special Training in 5 - 8 sem according to separated study plan	esters		An	nount						rse pro urse w	•				0					+	-	\dashv	\dashv	1	+	\dashv	-	1		
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				Home Control Works (HCW) Abstracts									8						4	4	4	4	4	4	=						
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		Practi	ces					l
Practice	type	Perio	od	Total Weeks	Semester		r	ı
Pre-diploma	intership	from April,1 till May, 21		5		8		
	Hours distributio	n for preparing and I	epresentation re	sults of qualifacation	work (Di		Total h	OURS
Type of work	Normative	per student	Dep	partment	В	С	В	С
Governance	1	9		DFMM	39	2	741	38
Colsultation	•	1		DIT	39	2	39	2

Form of Final Graduation	Period
Graduation Examination of qualification work	from June, 19th, 2023 till June, 30th, 2023

Type of work	Normative per student	Department	Stud	ents	Total h	ours
Type of work	Normative per student	Department	В	С	В	С
Governance	19	DFMM	39	2	741	38
Colsultation	1	DIT	39	2	39	2
Consultation	1	DCDS	39	2	39	2
Side review	2	DAMT	39	2	78	4
Examination	2	DFMM	39	2	78	4
Total	25		Total hou	ırs	975	50

Approved by Faculty Academic Council, Meeting protocol	Nº 5	trom I	way 27,	2024

lead of the Department	Vitalii TSAPAR	Dean of FCE	Yevgen PANOV