

General Military Science, Tactical and Special Training in 5 - 8 semesters according to separated study plan

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 2022

Institute

Faculty of Chemical Engineering

	Spe	151 Automation and Computer-Integrated Technologies										Form of study					1	<u>Full-time</u>																	
Anatolii MELNYCHENKO Educational F			rogram <u>Automation hardware and software</u>										Study duration						Š	3yrs. 10mth .(4 e.y.)															
			<u>Bachelor</u>									Qualification							Bachelor of Automation and Computer- Integrated Technologies																
	Gra	duation De	partme	ent		Automa	ation h	ardware	e and	softv	vare De	partn	<u>ient</u>											integ	ratea	recni	noio	gies							
			I													Γ								Hour	e diet	ributi	on by	v woo	k cou	reae a	nd				
			Num	Number of Sub		ubiect	Hours										Control measures and their					eir	Hours distribution by week, courses and semesters						iiu						
			students amount				nours								hours		dist	istribution by semesters					Į	3rd year											
		len len				1																	LA-01 (B:20, C:1); LA-02 (B:16, C:1); LA-03 (B:18, C:1												
Code	Subject	l Ĕ					including Lectures Practice Lab works							self-study				ž ×		GW		ŀ	5th Semester 18 weeks				6th Semester 18 weeks								
Ĭ		Department	get	act	တ	Hours	=					0	, i		nt's s	Ε	test	>	oroje	Wor	Worl	Worl	Worl	Wor	N, G	>	acs	L	inc	luding	-	-	inc	cluding	
			Budget	Contract	ECTS		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	Student's	Exam	Final test	MCW	Course project	Course Work	CGW, CW,	HCW	Abstracs	Total	Lectures	Practices	Lab works	Total	Lectures	Practices	Lab works				
_																															32				
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				
	NORMATIVE educational components 1.1. General training cycle																																		
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	Foreign Language for Professional Purposes. Part 1		54	4	3	90	72			72		_		0	18	-			_	_	_	_	_	_	_	_	_	_	_	_	ᆜ				
	TOTAL of General Educational Co	omponents			5	150	108	18	0	90	0	0	0	0	42	0	11	10	0	0	0	0	0	4	1	3	0	2	0	2	0				
3 Computer Modeling of Processes and Systems AH&S 54 4 5 150 72 36 18 18 18 0 78 5 5 5 8 4 2 1 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8																																			
4	· · · · · · · · · · · · · · · · · · ·	AH&S	54	4	-	150	72	36		18		18		0	78	5	5	5		5			-	4	2	4	1			+	_				
5		AH&S	54 54	4	1,5 6,5	45	90	20		36		18		0	45	6	5	6		э			-		-+	+		5	2	2	1				
6		AH&S			1	195	0	36		36		18			105 30	0	6	0	6							\dashv		3	2		-				
	Automatic Control Theory. Part 1. Classical Control Theory	AH&S	54 54	4	5	30 150	72	20				36		0	78	6	ь	6	О		6		-		-+	+		4	2	+	2				
			54	4	+			36	_		_		_			0		0			0			_	_	_		_			3				
TOTAL of Professional Educational Components 19 570 234 108 0 54 0 72 0 0 336 4 2 1 1 9 4 2 2 2 2 2. Elective educational components												3																							
8	Means and methods of control system mounting	AH&S	24	1	4	120	54		ation		пропе	1115		0	66		6	6				6			$\neg \tau$	\neg		3	1	2	_				
_		AH&S	21	1	4	120	54	18 18		36 36				0	66		6	6				6				\dashv		3	1	2	-				
-	Chemical production equipment	MACPP	14	1	4	120	54	18		36				0	66		6	6				6				+		3	1	2	-				
_	Pulp and paper production equipment	MACPP	23	1	4	120	54	18		36				0	66		6	6				6			-	+		3	1	2	-				
	Algorithms and data structures	AH&S	18	1	4	120	54	18		36				0	66		6	6				6			-	-		3	1	2	-				
_	Integrated automated control systems	AH&S	22	3	4	120	54	18		36				0	66		6	6				6				+		3	1	2	-				
_	Specialized tasks of system analysis	AH&S	21	3	4	120	54	18		36				0	66		6	6				6				+		3	1	2					
_	Parametric modeling of technological processes	AH&S	24	3	4	120	54	18		36				0	66		6	6				6			-	-		3	1	2	=				
_	Systems and means of pneumatic automation	AH&S	24	2	4	120	54	18		36				0	66		5	5				5		3	1	2			•	-+	-				
	Mechanical principles of robotics	Me	20	1	4	120	54	18		36				0	66		5	5				5		3	_	2				+	-				
18		AH&S	24	1	4	120	54	18		36				0	66		5	5				5		3		2				_	=				
_	Infographics and data visualization	AH&S	42	3	4	120	54	18		36				0	66		5	5				5		3		2				_	=				
_	Theoretical foundations of heating technology	CPSMB	11	2	4	120	54	18		36				0	66		5	5				5		3		2				-+	-				
_	Control objects in plant polymers technology	ETPP	24	0	4	120	54	18		36				0	66		5	5				5		3		2				_	-				
_	Industrial data transmission networks	AH&S	22	2	4	120	54	18		36				0	66		5	5				5		3		2				_	-				
23		TISW	18	1	4	120	54	18		36				0	66		5	5				5		3		2				_	-				
_	Special mathematical methods	AH&S	17	2	4	120	54	18		36				0	66		5	5				5		3	_	2				+	_				
_	Data exchange networks	AH&S	23	2	4	120	54	18		36				0	66		5	5				5		3		2				+	_				
_	Mathematical software and their application	AH&S	22	2	4	120	54	18		36				0	66		5	5				5		3		2				+	=				
27	Fundamentals of decigning computer integrated	AH&S	26	2	4	120	54	18		36				0	66		6	6				6		-	\forall			3	1	2					
28	Information technologies of data analysis	AH&S	23	1	4	120	54	18		36				0	66		6	6				6			\dashv	\dashv		3	1	2	\exists				
_	Experimental studies of technological objects	AH&S	23	3	4	120	54	18		36				0	66		5	5				5		3	1	2	1			$\neg \dagger$					
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	Modular Control Works (MCW)										14 8 8										6														

Approved by Faculty Academic Council, Meeting protocol № 5 from May 27, 2024

Head of the Department	Vitalii TSAPAR	Dean of FCE	Yevgen PANOV
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Amount

Course projects
Course works
CGW, CW, GW
Home Control Works (HCW)
Abstracts