



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 2024

APPROVED
vice-rector for teaching work

_____ Anatolii MELNYCHENKO
" " " 2024 p.

Specialty - 174 Automation, Computer-Integrated Technologies and Robotics
Educational Program - Automation hardware and software
Level - Bachelor
Gradua - 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, Computer-Integrated Technologies and Robotics

Code	Subject	Department	Number of students		Subject amount	Hours										Student's self-study hours	Control measures and their distribution by semesters							Hours distribution by week, courses and semesters							
			Budget	Contract		ECTS	Hours	Total	including			Exam	Final test	MCW	Course project		Course work	CGW, CW, GW	HCW	Abstracts	1st semester			2nd Semester							
									Lectures	Practice	Lab works										18 weeks including		16 weeks including								
			according to Study Plan	Ind. Work with student		according to Study Plan	Ind. Work with student	according to Study Plan	Ind. Work with student	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	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
1. NORMATIVE educational components																															
1.1. General training cycle																															
1	Ukraine in the Context of the Historical Development of Europe	H	75	9	2	60	36	18		18				0	24	1	1							2	1	1					
2	Chemistry	GIC	75	9	3	90	54	18		18		18		0	36	1	1				1			3	1	1	1				
3	Engineering Graphics	DGIKG	75	9	3	90	54	18		36				0	36	1	1				1			3	1	2					
4	Language culture and business speech	ULLC	75	9	2	60	36	18		18				0	24	2	2										2	1	1		
5	Fundamentals of a Healthy Lifestyle	BHH	75	9	3	90	72	18		54				0	18	2	1						2	1	1		2		2		
6	Foreign Language. Part 1	EE2	75	9	3	90	72			72				0	18	2	1						2		2		2		2		
TOTAL of General Educational Components						16	480	324	90	0	216	0	18	0	156	0	6	6	0	0	2	0	0	12	4	7	1	6	1	5	0
1.2. Vocational training cycle																															
7	Computer-Integrated Technologies. Part 1. Introduction to Computer-Integrated Technologies	AH&S	75	9	3	90	54	36		18				0	36	1	1						3	2	1						
8	Computer-Integrated Technologies. Part 2. Computer Graphics	AH&S	75	9	4	120	72	18		54				0	48	2	2				2						4	1	3		
9	Programming. Part 1. Programming Basics	AH&S	75	9	5	150	72	36				36		0	78	1		1			1		4	2		2					
10	Programming. Part 2. Object-Oriented Programming	AH&S	75	9	5	150	72	36				36		0	78	2		2			2						4	2		2	
11	Higher Mathematics. Part 1. Analytical Geometry. Differential calculus	MPDE	75	9	6	180	90	36		54				0	90	1		1			1		5	2	3						
12	Higher Mathematics. Part 2. Integral Calculus. Differential Equations	MPDE	75	9	7	210	108	54		54				0	102	2		2			2						6	3	3		
13	Physics. Part 1. Mechanics and Thermodynamics	MPP	75	9	5	150	72	36		18		18		0	78	1		1			1		4	2	1	1					
14	Physics. Part 2. Electromagnetism and Optics	MPP	75	9	5	150	72	36		18		18		0	78	2		2			2						4	2	1	1	
15	Electrical Engineering	TEE	75	9	4	120	72	36		18		18		0	48	2	2				2						4	2	1	1	
TOTAL of Professional Educational Components			44	1320	684	324	0	234	0	126	0	0	0	636	6	3	9	0	0	8	0	0	16	8	5	3	22	10	8	4	
Total of Educational Components:			60	1800	1008	414	0	450	0	144	0	0	0	792	6	9	15	0	0	10	0	0	28	12	12	4	28	11	13	4	
Amount			Exams													6															
			Final Tests													9															
			Modular Control Works (MCW)													15															
			Course projects													0															
			Course works													0															
			CGW, CW, GW													10															
			Home Control Works (HCW)													0															
Abstracts													0																		

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

Head of the Department _____

Vitalii TSAPAR

Dean of FCE _____

Yevgen PANOV