MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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

CURRICULUM

Enrolment 2021

by coleritine countries	1								
"Igor Sikorsky Kyiv Po	lytechnic Institute"								
"" 2021 y. Level protocol #		Bacelor	Field of Study	12 Information Technologies	Faculty of	Informatics and Compute			
		_	(назва освітнього ступеня)	-	(code and name of the field of knowledge)		Science		
Chairman of the Academic Counc		Speciality		121 Softwa	Qualification	Bachelor in Software			
				(code and name	of the specialty)		Engineering		
N	lichael ILCHENKO	Educational Profess	Educational Professional Program		outer Systems Software Engineering	Term of study	y 3 years, 10 months (4 e.y.)		
					(name)				
			Form of study	full-time		Base level	Full secondary education		

| Michael ILCHENKO | Educational Professional Program | Computer Systems Software Engineering | Term of study | 3 years, 10 months (A | Inches | In

V. Plan of Educational process Distribution for terms Number of hours Distribution of classroom hours per week by courses																				
&				nesters)		یو		I		or nours sroom		Distribution of classroom hours per week by courses and semesters								
			ts	ndividual tasks	Modular test work	ECTS Credits			Oluse	including			l year 💮 II year 💮 III year					IV year		
CODE from	Subjects	Exams	Final tests	ual t	test	SC	Summary	la Sa	sa	la ca	tory	Self-study	Semesters 1 2 3 4 5 6			7	8			
00		Ä	Fina	divid	lular	ECI	Sun	Total	Lectures	Practical	Laboratory	Self		N		of we	eks in s	emeste	r	
				uı	Мос				ľ	۵	Lal		18	18	18	18	18	18	18	9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 1. NORMATIVE components of EP										21										
1.1. General Training Cycle																				
GM 1 GM 2	Ukrainian language for professional purposes History of Science and Technology		1		1	2	60 60	36 36	18 18	18 18		24 24	2	2						
GM 3	Fundamentals of a Healthy Lifestyle		2		1.2	3	90	72	18	54		18	2	2						
GM 4	Foreign Language		2.4		1.3	6	180	144		144		36	2	2	2	2				
GM 5	Economy of IT-industry and Business		7		7	4	120	54	36	18		66			_				3	—
GM 6 GM 7	Philosophical Bases of Scientific Cognition Environmental Safety and Civil Protection		3		3	2	60 60	36 36	18 18	18 18		24 24	2		2					
GM 8	Rights and Freedoms		5		5	2	60	36	18	18		24					2			
GM 9	Foreign language for professional purposes	8	6		5.7	6	180	126		126		54					2	2	2	2
GM 10 GM 11	Mathematical Analysis Linear Algebra and Analytic Geometry	1.2	1	1.2	1.2	10 4	300 120	144 54	72 36	72 18		156 66	3	4						
GM 12	Probability Theory		3	3	3	4	120	54	36	18		66			3					
GM 13	Computer Discrete Mathematics	1		1	1	5	150	72	36	36		78	4							
GM 14	Group Dynamics and Communications		4		4	4	120	54	36	18		66				3				
Total of no	ormative EP components of the general training cycle	4	13	4	18	56	1680	954	360	594	0	726	19	10	7	5	4	2	5	2
PM 1	Algorithms and Data Structures		1.2	1.	2. Prof 1.2	ession 8	al Train 240	ing Cy 126	cle 72	I	54	114	3	4	1				ı	
PM 2	Programming Fundamentals	1.2	1.2		1.2	11	330	180	72	36	72	150	5	5						
PM 3	Coursework on Programming Fundamentals		2			1	30					30		Х						
PM 4	Computer Systems and Networks Fundament.	2			2	5	150	72	36		36	78		4	_					
PM 5 PM 6	Databases Coursework on Databases	3	3		3	4	120 30	54	36		18	66 30			3 x					
PM 7	Software Engineering Components	4.5	2.3		2,3,4,5	17	510	234	144		90	276		3	3	4	3			
PM 8	Coursework on Software Engineering Components		5			1	30					30					х			
PM 9	Safety of Software	7			7	4	120	54	36		18	66							3	
PM 10	Pre-diploma Practice	<i>'</i>	8		<i>'</i>	6	180	54	30		10	180							3	х
PM 11	Diploma Design					6	180					180								х
PM 12	Object-Oriented Programming	3		3	3	5	150	72	36		36	78			4					
PM 13	Workshop on Linux	3			3	6.5	195	72	36		36	123			4	_				
PM 14 PM 15	System Programming Networks and Network Information Technolog.	4			4	4.5	135 120	54 54	36 36		18 18	81 66				3				
	Methodologies and Technologies of Software		_																	
PM 16	Development		4		4	4	120	54	36		18	66				3				
PM 17	Coursework on Methodologies and Technologies of Software Development		4			1	30					30				х				
PM 18	Operating Systems	5			5	5.5	165	72	36		36	93					4			
PM 19	Agile Programming Techniques	6			6	4	120	54	36		18	66						3		
PM 20	Risk and Quality Management of Projects	6	_		6	4.5	135	54	36		18	81						3		
PM 21	Bases of Development of Computer Games		7		7	4	120	54	36		18	66							3	
PM 22	High Performance Systems Software	6			6	4	120	54	36		18	66						3		
PM 23	Complex Systems Design	7	8		8	4.5	135	54	36		18	81							2	6
PM 24 ПО 25	Artificial intelligence technologies Physical basis of computer systems	7	4		7	4.5	135 120	54 54	36 36		18 18	81 66				3			3	
Total of no	ormative EP components of the professional training	16	13	1	24	124	3720	1476	864	36	576	2244	8	16	14	16	7	9	9	6
cycle SUMMARY	f of NORMATIVE components of EP	20	26	5	42	180	5400	2430	1224	630	576	2970	27	26	21	21	11	11	14	8
		•					ompon													
GS 1	2.1. General traini Educational component 1 University-Catalog	ng cyc	de (Se	lectiv	e Educ 3	ational 2	60	36	from th	ne Gene	eral Ur	24	y-Catal	og)	2					
GS 2	Educational component 2 University-Catalog		4		4	2	60	36	18	18		24				2				
Total of se	ective EP components of the general training cycle		2		2	4	120	72	36	36	0	48			2	2	0	0	0	0
PS 1	2.2. Profession Educational component 1 Faculty-Catalog	ial trai	ning c	ycle (Selecti 5	ve Edu	120	54	36	s from	the Fa	culty-C	atalog)				3			
PS 2	Educational component 2 Faculty-Catalog		5		5	4	120	54	36		18	66					3			
PS 3	Educational component 3 Faculty-Catalog		5		5	4	120	54	36		18	66					3			
PS 4 PS 5	Educational component 4 Faculty-Catalog Educational component 5 Faculty-Catalog		5 6		5 6	4	120 120	54 54	36 36		18 18	66 66					3	3		
PS 6	Educational component 6 Faculty-Catalog Educational component 6 Faculty-Catalog		6		6	4	120	54	36		18	66						3		
PS 7	Educational component 7 Faculty-Catalog		6		6	4	120	54	36		18	66						3		
PS 8 PS 9	Educational component 9 Faculty-Catalog		6 7		6 7	4	120 120	54 54	36 36		18 18	66 66						3	3	
PS 10	Educational component 9 Faculty-Catalog Educational component 10 Faculty-Catalog		7		7	4	120	54 54	36		18	66							3	
PS 11	Educational component 11 Faculty-Catalog		7		7	4	120	54	36		18	66							3	
PS 12	Educational component 12 Faculty-Catalog		8		8	4	120	54	36		18	66								6
PS 13 PS 14	Educational component 13 Faculty-Catalog Educational component 14 Faculty-Catalog		8		8	4	120 120	54 54	36 36		18 18	66 66								6
Total of se	elective EP components of the professional training		14		14	56	1680	756	504	0	252	924				0	12	12	9	18
cycle SUMMARY	f of SELECTIVE components of EP	0	16		16	60	1800	828	540	36	252	972			2	2	12	12	9	18
- Ciminal	TOTAL	20	42	5	58	240	7200	3258	1764	666	828	3942	27	26	23	23	23	23	23	26
									k)			exams	3	3	3	3	2	3	2	1
		Number of Final Tests including: Number of Course Projects						4	6	5	6	6	5	5	5					
												-		1	1	1	1			
Number of Course Works 1 1 1 1																				

hairman of the EMC	Ivan DYCHKA		
hairman of the Department	Sergii STIRENKO	Dean of the Faculty	Sergii TELENYK