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

WORK CURRICULUM

2022 / 2023 academic year

(Enrolment 2019)

Speciality	121 Software Engeneering
Educational and Professional program	Computer Systems Software Engineering
Level	Bachelor
Graduation Department	Computer Engineering

Faculty (Institute)	of Informatics and Computer Science
Form of study	full time
Study duration	3 years 10 months
Qualification	Bachelor in Software Engineering

№	Educational components	Departments	B	C	ECTS Credits	Number of hours	Total	Lect. acc. to curr.	Lect. incl. indiv.	Pract. acc. to curr.	Pract. incl. indiv.	Lab. acc. to curr.	Lab. incl. indiv.	Individual classes	Self-study	Exams	Final tests	Module test	Course projects	Courseworks	Calc. & graphing	Home tests	Essays	S1 Total	S1 Lect	S1 Pract	S1 Lab	S2 Total	S2 Lect	S2 Pract	S2 Lab
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
	1. NORMATIVE educational components																														
	1.1. General training cycle																														
1	Foreign language for professional purposes. Part II	English Language of Humanities Orientation № 3	0	15	3	90	54			54					36	8		7						2		2		2		2	
2	Economy of IT-industry and Business	Economic Cybernetics	0	15	4	120	54	36		18					66		7	7						3	2	1					
3	Safety of life activity	Labor protection, industrial and civil safety	0	15	2	60	36	18		18					24		7	7						2	1	1					
	Total number of part 1.1		9		270	144	54			90					126	1	2	3						7	3	4		2		2	
	1.2. Professional training cycle																														
4	Safety of Software	Computer Engineering	0	15	4	120	54	36				18			66	7		7						3	2		1				
5	Pre-diploma Practice	Computer Engineering	0	15	6	180	0								180		8														
6	Diploma Design	Computer Engineering	0	15	6	180	0								180																
7	Complex Systems Design	Computer Engineering	0	15	4,5	135	54	36				18			81		8	8										6	4		2
8	Artificial Intelligence Technologies	Computer Engineering	0	15	6,5	195	54	36				18			141	7		7						3	2		1				
	Total number of part 1.2		27		810	162	108					54			648	2	2	3						6	4		2	6	4		2
	TOTAL IN NORMATIVE educational components		36		1080	306	162			90		54			774	3	4	6						13	7	4	2	8	4	2	2
	2. SELECTIVE educational components																														
	2.1. General training cycle (Selective educational components from University-wide catalogue)																														
	Total number of part 2.1.																														
	2.2. Professional training cycle (Selective educational components from Interfaculty / Faculty/Department catalogue)																														
9	Basics of computer modeling	Computer Engineering	0	15	4	120	54	36				18			66		7	7						3	2		1				
10	System programming in the Unix environment	Computer Engineering	0	15	4	120	54	36				18			66		7	7						3	2		1				
11	Methodology and organization of scientific research	Computer Engineering	0	15	4	120	54	36				18			66		7	7						3	2		1				
12	Computer aided design of computer systems	Computer Engineering	0	15	4	120	54	36				18			66		8	8										6	4		2
13	Statistical methods of machine learning	Computer Engineering	0	15	4	120	54	36				18			66		8	8										6	4		2
14	Modern software development technologies	Computer Engineering	0	15	4	120	54	36				18			66		8	8										6	4		2
	Total number of part 2.2.		24		720	324	216					108			396		6	6						9	6		3	18	12		6
	TOTAL OF SELECTIVE educational components		24		720	324	216					108			396		6	6						9	6		3	18	12		6
	TOTAL		60		1800	630	378			90		162			1170	3	10	12						22	13	4	5	26	16	2	8

Number of		Exams	3			2	1
		Final Tests		10		5	5
		Module test			12	8	4
		Course projects					
		Coursework					
		Calculation and graphing works					
		Home tests					
		Essays					

Approved by the Faculty Academic Council, Meeting protocol № 9 from 2022-05-11

Head of the Department _____ Sergii STIRENKO   Dean of the Faculty _____ Yaroslav KORNAGA