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

CURRICULUM
admission in 2023

<table>
<tr><td>

APPROVED
by Academic Council Igor Sikorsky Kyiv Polytechnic Institute
"___" _____ 20__ p.

меeting protocol No _____

Head of Academic Council
_____ Mykhaylo ILCHENKO

</td><td>

Level **Master** Field of Study
12 - Information Technology
Speciality 121 "Software Engineering"
Educational and Professional Program
"Software Engineering of Multimedia and Information Retrieval Systems"
Form of study　　　　　　　　　　　　　　　　*full-time*
Graduation Department
Department of Computer Systems Software

</td><td>

Faculty (Institute) Faculty of Applied Mathematics

Qualification　　Master in Software Engineering

Study duration　　1 year 4 months

Base level　　Bachelor Degree

Academic Groups　　КП-32мп

</td></tr>
</table>

I. Schedule of educational process

Year	September				October					November				December					January				February				March				April					May				June				July					August			
	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	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
1																			C	C	К	К					-	-	-		-	-	-		-	-	-		-		C	C	К	К	К	К	К	К	К	К	К	К
2	п	п	п	п	п	п	п	п	д	д	д	д	д	Д	А	А	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		-	-	-		

Symbols:　Learning period　　C Examination　　п Practice　　д Research　　A Assessment　　к Holiday

II. Summary table of time budget (Weeks)

YEAR	Learning period	Examination	Practice	Research	Assessment	Holiday	Total
1	36	4	0	0	0	12	52
2	0	0	8	7	3	0	18

III. Practice

Type of practice	Term (Semester)	Weeks
Practice	3	8

IV. Graduates assessment

Subjects	Form of graduates assessment (exam, graduation project)	Semester
Master Thesis	Graduation project pitch	3

V. Plan of Educational Process

Code	Educational components	Exams	Final tests	Module test	Calculation, graphic assignments	Home test	Essay, abstract	ECTS Credits	Total	Total	Lectures	Practical	Laboratory	Self-study	1 (18)	2 (18)	3 (0)	4 (0)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	17	18	19	20
	1. NORMATIVE educational components																	
	General training cycle																	
ZO 01	Innovative Management and Intellectual Property in IT	1	1					4.5	135	108	36	72		27	6			
ZO 02	Sustainable Innovative Development	2	2					2.0	60	36	18	18		24		2		
ZO 03	Foreign Language for Business Communication	2	1				1	3	90	72		72		18	2	2		
	Together of the cycle of general training	0	3	3	0	0	1	9.5	285	216	54	162	0	69	8	4	0	0
	Vocational training cycle																	
PO 01.1	Scientific Research. Part 1. Basics of the Scientific Research	1						2.0	60	27	9	18		33	1.5			
PO 01.2	Scientific Research. Part 2. Scientific and research work on the master's thesis topic	2						2.0	60	18		18		42		1		
PO 02	Practice	3						14.0	420	0				420			X	
PO 03	Master Thesis							12.0	360	0				360			X	
PO 04	Software Engineering Methodology	2	2					4.0	120	54	36		18	66		3		
PO 05	Software Engineering Methodology. Course Project	2						1.5	45	0				45		X		
PO 06	Modeling and Design of Information Systems	1		1				4.0	120	54	36		18	66	3			
PO 07	Information Retrieval Systems and Services	1		1				5.0	150	90	36	18	36	60	5			
PO 08	Software for Automatic Identification Systems	1		1				4.0	120	54	36		18	66	3			
PO 09	Multimedia Interfaces and 3D Visualization		1	1				4.0	120	54	36		18	66		3		
PO 10	Multimedia Interfaces and 3D Visualization. Course Work		1					1.0	30	0				30		X		
PO 11	Artificial Intelligence Technologies for Information Retrieval Systems	1		1				4.0	120	54	36		18	66	3			
	Total number of Vocational training cycle	3	8	6	0	0	0	57.5	1725	405	225	54	126	1320	18.5	4	0	0
	TOTAL of NORMATIVE educational components	3	11	9	0	0	1	67	2010	621	279	216	126	1389	26.5	8	0	0
	2. ELECTIVE educational components																	
	Vocational training cycle (Elective educational components from Interfaculty/Faculty/Department catalogue)																	
PV 01	Educational component 1 of the F-Catalog		2	2				4.0	120	54	36		18	66		3		
PV 02	Educational component 2 of the F-Catalog		2	2				4.0	120	54	36		18	66		3		
PV 03	Educational component 3 of the F-Catalog	2		2				5.0	150	54	36		18	96		3		
PV 04	Educational component 4 of the F-Catalog	2		2				5.0	150	54	36		18	96		3		
PV 05	Educational component 5 of the F-Catalog	2		2				5.0	150	54	36		18	96		3		
	Total number of Vocational training cycle	3	2	5	0	0	0	23	690	270	180	0	90	420	0	15	0	0
	TOTAL of ELECTIVE educational components	3	2	5	0	0	0	23	690	270	180	0	90	420	0	15	0	0
	TOTAL NUMBER	6	13	14	0	0	1	90	2700	891	459	216	216	1809	26.5	23	0	0

	1	2	3	4
Exams	3	3	0	0
Final tests	5	7	1	0
Courseworks	1	0	0	0
Course projects	0	1	0	0
Module tests	7	7	0	0
Calculation, graphic assignments	0	0	0	0
Home tests	0	0	0	0
Essays, abstracts	1	0	0	0

Head of the NMKU-121　　　　　_____　　　　Yevheniia SULEMA
　　　　　　　　　　　　　　　(sign)

Head of the Department PZKS　　　_____　　　Yevheniia SULEMA
　　　　　　　　　　　　　　　(sign)

Dean of the Faculty/ Director of the Institute FPM　　　_____　　Ivan DYCHKA
　　　　　　　　　　　　　　　　　　　　　　　　(sign)