



Ministry of Education and Science of Ukraine
National University «Zaporizhzhia Polytechnic»

Form № 21
Reviewed and approved at a meeting
of the Academic council of the university
«28» 08 2023 year Protocol № 1

CURRICULUM

Training Masters field of knowledge (12) Information Technologies (code and name of the field of knowledge)
(degree of higher education)
specialty (121) Software engineering (code and name of specialty)
Software engineering
name of the educational program (specialization)
Full-time
(full-time, part-time (distance), dual)
The term of study is 1.5 years (3 semesters)
based on (academic years/ semesters) bachelor, specialist
(educational and qualification level)

according to the educational program
(specialization)
Form of obtaining higher education

I. SCHEDULE OF THE EDUCATIONAL PROCESS

Ordinal number of the week according to the schedule of the educational process																																																				
Year	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					T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T			
2	P	P	P	P	P	P	P	P	P	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M			

MARKING: T - theoretical classes; I - individual work; B - boundary (current) control; S - examination session; P - practice; H - holidays; C - certification; M - master's thesis

II. SUMMARIZED DATA ON THE TIME BUDGET, weeks

Year	Theoret. classes (T)	Boundary (current) control (B)	Individ. work (I)	Examination session (S)	Practice (P)	Certification (C)	Master's thesis (M)	Holiday (H)	Total	Name of practice	Semester	Weeks	Name of academic disciplines	Form of Certification (exam, master's thesis)	Semester	Weeks
1	28	1		5				14	48							
2					8		12		20	Pre-diploma practice	3	8		Qualifying work (MASTER'S THESIS)		12
Total	28	1		5	8		12	14	68	Total weeks		8		Total weeks		12

III. PRACTICE

IV. ATTESTATION

V. CURRICULUM

NO	CODE	NAME OF THE EDUCATIONAL DISCIPLINE	Distribution by semesters										Amount		Amount of hours										Distribution of classes per week by semesters (half-semester) and ECTS by years and semesters								Department (abbreviated name)	note
			Exams	Tests (dif. tests)	Course		Individual tasks	Control works	Individual tasks	control works	ECTS	Total amount	Total	Classroom				Self-study	classes per week	ECTS	classes per week	ECTS	classes per week	ECTS										
					works	projects								including	Laboratory works (computer practical)	Practical works	Seminar classes								Others									
																										1 sem	2 sem	3 sem	4 sem					
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										
1 OBLIGATORY COMPONENTS																																		
1.1	OC01	Resource management in mobile systems software engineering		2							3	90	30	14	14			2	60			2												
1.2	OC02	Engineering of applied intellectual applications	1			1					5	150	38	12	26				112	3														
1.3	OC03	Technologies and systems of virtual and remote engineering		2		2					5	150	44	14	30				106			3												
1.4	OC04	Methodology of scientific research and academic writing			1						3	90	30	12	12			6	60	2														
1.5	OC05	Software certification			1						4	120	40	12	26			2	80	3	4													
1.6	OC06	Design, modeling and quality assurance of systems' software				1					6	180	60	26	26			8	120	4	6													
1.7	OC07	Methods of data analysis and high-performance computing		2							3	90	44	14	30				46			3												
1.8	OC08	Foreign language for professional activities			1						3	90	30			26		4	60	2	3													
1.9	OC09	Fuzzy programming			2						4	120	44	14	30				76			4												
1.10	OC10	Pre-diploma practice									10.5	315							315															
1.11	OC11	Qualification work (Master's thesis)			3						19.5	585							585															
		Total	5	6			2				66	1980	360	118	194	26	22	1620	14	21	11	15	30											
2 ELECTIVE COMPONENTS																																		
2.1	EC	Elective disciplines chosen by applicants from the general university catalog									6	180									3													
2.2	EC	Elective disciplines chosen by applicants from the catalog offered by the Software Tools department, which is responsible for the implementation of the Curriculum									18	720									6	12												
		Total									24	720									9	15												
												90	2700								30	30	30											
		Number of exams																			2	2	1											
		Number of tests																			3	2	1											
		Number of course works (CW)																																
		Number of course projects (CP)																																
		The number of individual tasks (IT)																			1	1												
		Number of control works																																

Dean of the Faculty of Computer Sciences and Technologies



Mykola Kasryan
(first and last name)

Head of the Software Tools Department



Sergey Subbotin
(first and last name)

Guarantor of the educational program



Sergey Subbotin
(first and last name)