MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE NATIONAL TECHNICAL UNIVERSITY "KHARKIV POLYTECHNICAL INSTITUTE"

EDUCATIONAL-PROFESSIONAL PROGRAM

Information Systems Software The second (Master's) level

specialty	126 Information systems and technologies
the branch knowledge	of 12 Information Technologies
qualification	Master of Information Systems and Technologies
	APPROVED by Academic Council Chairman of the Academic Council NTU "KhPI"
	L.L. Tovazhniansky
	«»
	The educational program is put into action Rector Ye.I. Sokol (Order № from «» 2019)

NTU "KhPI" Kharkiv 2019

LETTER OF APPROVAL

educational and professional program

Level of higher education	The second (Master's) level
Branch of knowledge	12 Information Technologies
Specialty	121 «Information systems
-	technologies»
Specialization	126-01 «Information Systems
-	Software»
Qualification	Master of Information systems
	and technologies
APPROVED Scientific-methodical committee on the specialty "Information systems and technologies" Head of the committee	RECOMMENDED Methodical Council of NTU "KhPI" Deputy Chairman of the methodical council
NV. Sharonova	R.P. Migushchenko
«»201	«»201
AGREED Head of the Department of Software Engineering and Management Information TechnologiesM.D. Godlevsky	AGREED Dean of the Faculty of Computer sciences and software engineering M.M. Malko
«»201	«»201
APPROVED AND PROVIDED By order of the rector of the Nation institute" from « » 20	nal Technical University "Kharkiv Polytechnic

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PREFACE

The educational program (EP) for the training of bachelors in the specialty 126 – Information systems and technologies is a temporary normative document, which summarizes the content of education, that is, reflects the goals of education and training, determines the position of a specialist in the structure of the state economy and the requirements for its competencies and other socially important features and qualities.

Introduced by the National Technical University "Kharkiv Polytechnic Institute" as a temporary document for the introduction of the standards of higher education in Ukraine.

Developed by a working group of the Department of Software Engineering and Management Information Technologies of the Faculty of Computer Science and Software Engineering of the National Technical University "Kharkiv Polytechnic Institute", consisting of:

- 1. Doctor of Technical Sciences, Professor N.V. Sharonova is the head of the department of Intelligent Computer Systems, the head of the project group (guarantor of the educational program).
- 2. Doctor of Technical Sciences, Professor N.F. Khayrova Professor of the Department of Intelligent Computer Systems.
- 3. Candidate of Technical Sciences, Associate Professor O.Yu. Cherednichenko Assistant Professor of Software Engineering and Management Information Technologies.

Reviews of external stackers:

- 1. Company Nix Solutions
- **2.** Telesens company
- 3. Company Sigma

Developed by a working group

Chairman of the working group:	
Sharonova N.V., Doctor of Technical Sciences, Professor,	
Head of the Department of Intelligent Computer Systems of the	
National Technical University "Kharkiv Polytechnic Institute"	
Members of the working group:	
Khayrova N.F., Doctor of Technical Sciences, Professor,	
Professor of the Department of Intelligent Computer Systems of the	
National Technical University "Kharkiv Polytechnic Institute"	
Cherednichenko O.Yu., Candidate of Technical Sciences,	
Associate Professor, Associate Professor of the Software	
Engineering and Management Information Technologies	
Department of the National Technical University "Kharkiv	
Polytechnic Institute"	

1. Profile of the educational program in specialty number 126 - Information systems and technologies

	1 – General information
E-II	
Full name of higher	National Technical University "Kharkiv Polytechnic
educational	Institute", Faculty of Computer Sciences and
institution and	Software Engineering, Department of Software
structural unit	Engineering and Management Information
	Technologies
D 61:1	7.6
Degree of higher	Master
education and the	Educational qualification: Master of Information
name of the	Systems and Technologies
qualification	Qualification in the diploma: Master of Information
	Systems and Technologies
The official name of	Information Systems Software
the educational	
program	
Type of diploma and	Single, 90 ECTS credits, training period 1,4 years
volume of educational	
program	
Availability of	
accreditation	
Cycle / Level	NRC Ukraine - 7 level, FQ-EHEA - second cycle,
	EQF LLL - 7 level
Preconditions	Bachelor's degree in related (or other specialties) in
	accordance with the conditions and rules of
	admission.
Teaching language	Ukrainian, Russian, English
The duration of the	
educational program	
Internet address of	http://web.kpi.kharkov.ua/asu/specialnosti/
the permanent	
description of the	
educational program	

2 – The purpose of the educational program

In-depth training of specialists in the field of information systems and technologies capable of putting scientific and production tasks in relation to the development, quality assurance and implementation of information systems, finding rational methods and means of their solution, solving the most complex of them, creating conditions for the sustainable development of IT- companies

	processes and results of the development of information									
systems.										
3 – Cha	racteristics of the educational program									
Subject area	Branch of knowledge: 12 Information Technologies									
(branch of	Specialty: 126 - Information systems and technologies									
knowledge,										
specialty,										
specialization)										
Orientation of the	The integration of professional training in the field of									
educational	information systems and technologies with innovative									
program	and scientific activities, orientation towards									
	implementation of real program projects, maste									
	participation in teams for the development and research									
	of real software projects of complex software system									
	and instrumental software.									
The main focus of	Special education in specialty									
the educational	Key words: software, information systems,									
program and	information technologies									
specialization										
Features of the	Research and solution of complex problems in the field									
program	of computer sciences, information technologies and									
	research and innovation activity, analysis of existing									
	modern information technologies. Focusing on									
	partnership with domestic and foreign educational and									
	scientific institutions, private sector, academics and									
	practitioners, participation in international programs to									
	improve the quality of education.									
4 – Eligibility of	f graduates to employment and further training									
Suitability for	Professional activity as a software engineer; engineer-									
employment	developer; system developer; database developer; web-									
ı v	developer; system administrator; information systems									
	maintenance engineer; specialist in the development									
	and testing of software.									
	Graduates can work in professions according to the									
	National Classification of Professions DK 003: 2010:									
	2131.2 Database Administrator									
	2131.2 Data Administrator									
	2131.2 Access Administrator									
	2131.2 System Administrator									

	2121 2 G							
	2131.2 Computer Software Engineer							
	2132.2 Software engineer							
	2132.2 Developer (database)							
	2131.2 Software and multimedia analyst							
	2132.2 Application developer							
	2139.2 Computer Engineer							
	2149.2 Research engineer							
	3121.2 IT Specialist							
	3121.2 Specialist in Software Development and							
	Testing							
	3121.2 Specialist in Software development							
	3121.2 Specialist in computer graphics (design)							
Further training	The Master has the opportunity to study at the ninth							
	degree (PhD) in an educational science program in							
	accordance with the National Framework of							
	Qualifications in the field of Knowledge "Information							
	Technologies" or related branches of knowledge.							
5 – Teaching and evaluation								
Teaching and	The teaching process involves the use of such learning							
learning	techniques as: problem-oriented lectures, laboratory							
	classes, small groups, discussion seminars, brain							
	storms, presentations that develop communicative and							
	leadership skills, independent work with literature/							
	informational sources, generalization skills; writing of							
	scientific articles, planning and implementation of							
Evaluation	research works and works of practical direction.							
Evaluation	The academic performance assessment of knowledge							
	and skills of students is carried out in the form of							
	current and summative assessment. Assessment of							
	students' knowledge is carried out according to the							
	modular rating system. Current assessment involves							
	knowledge, skills and abilities of students at lectures,							
	laboratory, practical and seminar sessions, and during							
	individual training tasks and modular test works							
	assessment. The summative assessment is carried out							
	in the form of examinations, credits and final							
	certification. The summative assessment of knowledge							
	in the form of an exam is made in written form. A							
	student of higher education is considered to be							

admitted to the final examination in the disciplines of the educational program, if he has completed all types of work provided by the curriculum in this discipline. The summative assessment in the form of a differentiated credit is based on the results of the current assessment (the sum of the marks obtained by the results of the current assessment) without the submission of additional forms of assessment. The assessment of applicants for higher education is based on the results of examinations and differentiated credits for each semester.

The attestation is carried out in the form of public defense (demonstration) of diploma work. The diploma work must include elements of research and practice. The institution of higher education should carry out a mandatory check on the plagiarism of all masters' diploma papers. The uniqueness of the text for the work of the educational and professional training program should be at least 70%.

6 – Program competencies

Integral competence

Ability to solve complex specialized tasks and practical problems in the field of IST in implementation of professional activity or in the process of learning that involves research and/or innovation.

General competencies

GC 1 Ability to use the methodology for determining the risks and accepted, dangerous levels, to identify the factors of influence on the prevention of accidents, occupational diseases and accidents at objects (production).

GC 2 Ability to prevent emergency situations in the field of software engineering and ensure the sustainable functioning of the enterprises concerned, as well as to forecast and assess the socio-economic consequences of emergency situations at the sites.

GC 3 Ability to identify objects and subjects of intellectual property, to have knowledge of the peculiarities of legal protection, ways of commercialization and protection of the right to intellectual property, to assess the nature of the

	violation of intellectual apparatus mights to have the									
	violation of intellectual property rights, to have the									
	basics of contractual relations in the field of intellectual									
	property.									
Professional	PC 1 Ability to									
competencies	- form collective expert assessments and make									
	decisions on their basis;									
	- form quantitative and staff composition of expert									
	groups, to know the basic stages of generating expert									
	assessments.									
	Ability to apply in practice									
	- the main clauses of expert methods;									
	- methods of clusterization and ranking of expert									
	assessments, methods for coordinating assessments									
	and finding aggregated expert group assessments.									
	PC 2 Ability to choose appropriate data management									
	technologies depending on the needs of the domain.									
	PC 3 Ability to strategic planning of IS.									
	PC 4 Ability to plan and implement IS management									
	system.									
	PC 5 Understanding the principles of enterprise									
	architecture and the value it provides to businesses.									
	PC 6 Ability to create and deploy Enterprise									
	_									
	Architecture. PC 7 Ability to manage information system risks.									
	PC 8 Ability to manage IS / IT projects and software.									
	PC 9 Ability to independently choose the approaches									
	to managing information system design based on									
	planning, hybrid and flexible development.									
	PC 10 Ability to determine goals and priorities of tasks									
	in the management of modern software projects.									
	Identify and document system requirements. To choose									
	methodology of project management, methods of									
	formation of effective project teams.									
	PC 11 Ability to manage IS development projects.									
	PC 12 Ability to integrate and prepare data from									
	different sources for analytical use.									
	PC 13 Ability to choose and use appropriate analytical									
	methods.									
	PC 14 Ability to develop a business plan for the design									
	and implementation of IS.									

PC 15 Understanding how to apply creative problem solving to technology issues.

PC 16 Ability to implement and manage high-quality audit processes.

PC 17 Ability to monitor new technologies in order to understand their potential for supporting the subject area.

PC 18 Ability to write business and professional letters, educational and specialized essays, scientific and technical reports, notes and memoranda, as well as multimedia computer presentations.

PC 19 Improve communication skills necessary for solving professional tasks, including discussion skills. Ability to write articles and reports on IT technologies and project management, as well as annotation and referencing of scientific articles.

PC 20 The ability to compile reviews of scientific articles of various volumes (written and oral), as well as work with periodicals in English.

7 – Program training results

Program results of training in general preparation

RTg 1 Be able to:

- Analyze and predict the risks of designing and operating complex technical systems in the field of Software Engineering;
- ensure the effectiveness of the operation of the security management system;

Make hazard maps and risk assessments in the workplace.

RTg 2 Be able to:

- analyze and substantiate the organizational and technical measures on technogenic safety at enterprises, organizations, establishments and hazardous territories;
- -assess the consequences of the impact of the damaging factors of the accident on the objects;
- to develop engineering and technical measures on the level of risk of accidents and emergencies.

RTg 3 Know the basic concepts in the field of legal protection of intellectual property in Ukraine, be able

to work with normative legal acts of Ukraine and international agreements regulating relations in the field of intellectual property, know the conditions of granting legal protection to objects of intellectual property rights of Ukraine, be able to apply acquired knowledge in professional activity.

RTg 4 Be able to think systematically when analyzing different situations, solving problems and tasks.

RTg 5 Have the opportunity to apply the acquired knowledge creatively.

RTg 6 Have the opportunity to work individually with minimum instructions, to manage own work and time. RTg 7 Have the opportunity to work effectively in a group, manage a team and work together.

RTg 8 Be able to understand the impact of information systems' decisions on society and the environment and their economic aspects.

Program results of training in professional preparation

RT 1 Know the main clauses of the technology of structuring collective expert assessments and make decisions on their basis.

Be able to form quantitative and staff composition of expert groups, to know the basic stages of generating expert assessments.

Know the basic clauses of expert methods, clustering and ranking methods, group expert assessments, methods for coordinating evaluations, and finding aggregated expert group evaluations.

RT 2 Have the opportunity to apply different methods of analysis of information systems and technologies.

RT 3 Be able to identify, locate and evaluate information related to information systems using databases and other sources of information.

RT 4 Be able to identify, analyze and understand the problems of the development of information systems.

RT 5 Have the opportunity to manage information systems development projects and to define, analyze, evaluate and solve emerging management problems.

RT 6 Have the opportunity to analyze, model and evaluate business processes of the organization in

terms of development of information systems and technologies.

RT 7 Have the opportunity to use various computer tools for analysis and design of information-analytical systems.

RT 8 Know, understand, analyze, choose, apply methods and means of ensuring information security and integrity of data in accordance with application tasks being solved and information systems being created.

RT 9 Have the opportunity to apply different tools for managing information systems projects.

RT 10 Understand the basic concepts, facts, principles and theories of information systems and technologies.

RT 11 Understand the diversity and current challenges in information systems and technologies.

RT 12 Have the opportunity to choose and apply different technologies for the development of information systems.

RT 13 Have the opportunity to develop innovative solutions for creating and maintaining IT business.

RT 14 Understand the problems of users of information systems in order to be able to identify, analyze and describe the needs of users.

RT 15 Knowledge of writing articles and reports on IT technologies and project management, as well as annotating and referencing of scientific articles, compilation of reviews of scientific articles of various volumes (written and oral), as well as work with periodicals in English, reading (without using dictionary).

RT 16 Mastery of oral production skills and understanding the colleagues' presentations / reports, business correspondence, in particular, the ability to produce the main types of business correspondence when hiring or studying abroad.

Ability to participate in the discussion, including on an unprepared subject.

RT 17 Demonstrate reading comprehension and referencing of academic and professional materials of

any complexity, written reproduction of a wide range of business and professional communications.

RT 18 To have skills of free perception of speech in foreign language (English), conversational interaction on general and specialty topics, spontaneous monologue broadcasting of foreign (especially English) language.

Meets staff requirements on ensuring the implementation of educational activities in the field of higher education in accordance with the current legislation of Ukraine (Resolution of the Cabinet of Ministers of Ukraine "On Approval of Licensing Conditions for the Educational Activities of Educational Institutions" of December 30, 2015, No. 1187, Appendix 12) Material and technical providing Complies with technological requirements on the material and technical providing of educational activities in the field of higher education in accordance with the current legislation of Ukraine (Resolution of the Cabinet of Ministers of Ukraine "On approval of Licensing conditions for conducting educational activities of educational institutions" dated December 30, 2015, No. 1187, Appendix 13) Information and Corresponds to the technological requirements for
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Information and Corresponds to the technological requirements for
initial-methodical educational, methodological and informational
providing providing of educational activities in the field of higher
education in accordance with the current legislation of
Ukraine (Resolution of the Cabinet of Ministers of
Ukraine "On approval of licensing conditions for the
educational activities of educational institutions" dated
December 30, 2015, No. 1187, Annexes 14- 15)
9 – Academic mobility
National Credit On the basis of bilateral agreements between the
Mobility National Technical University "Kharkiv Polytechnic
Institute" and higher educational institutions of
Ukraine
International Credit On the basis of bilateral agreements between the
Mobility National Technical University "Kharkiv Polytechnic
Institute" and University Paris 13, Poznań University
of Economics
Education of foreign It is possible after studying the course of Ukrainian
applicants language

2. The list of components of the educational-professional program and their logical consistency

2.1 List of components of EP

Код	Program educational	Number	Form of final
н/д	components	of credits	control
1	2	3	4
	Compulsory com	ponents of EP	
CC 1	Occupational Safety in the industry	3	Credit
CC 2	Civil Defense	3	Credit
CC 3	Intellectual Property	3	Credit
CC 4	Innovation and entrepreneurship	3	Credit
CC 5	Enterprise Architecture Management	4	Exam
CC 6	Databases and Data Storages	4	Exam
CC 7	Development and implementation of information systems	4	Credit
CC 8	Information Systems Project Management	4	Exam
CC 9	IT infrastructure	3	Exam
CC 10	Security of information systems	3	Credit
CC 11	Models and methods of decision support	3	Exam
CC 12	Pre-diploma internship	15	
CC 13	Graduate project design	11	
CC 14	Attestation	4	
	Total number of compulsory components		67
	Sample compo	nents of EP	
SC 1	Fundamentals of the scientific research	3	Credit
SC 2	English for academic purposes	6	Credit
SC 3	Strategy of information systems	3	Credit
	Sample	set 1	•

SS 1.1	Simulation and analysis of business systems and processes	4	Credit
SS 1.2	Analysis and management requirements for software information systems	4	Exam
SS 1.3	Introduction to DevOps	3	Exam
	Sample	set 2	
SS 2.1	Introduction to Business Analytics	4	Credit
SS 2.2	Intellectual analysis of data and knowledge extraction	4	Exam
SS 2.3	Methods and models of management of modern business systems	3	Exam
	Total number of sample components:		23
	Total number OF THE EDUCATIONAL PROGRAM:		90

2.2 Structural-logical scheme EP

Semester	Contents of educational activity
9	CC 4, CC 5, CC 6, CC 7, CC 8, CC 2, SS 1.1, SS 1.2, SS 2.1, SS 2.2
10	CC 1, CC 2, CC 3, CC 9, CC 10, CC 11, SS 1.3, SS 2.3, SC1, SC2,
	SC 3
11	CC 12, CC 13, CC 14

3. Form of attestation of applicants for higher education

Attestation of graduates in the higher educational program of specialty number 126 – Information systems and technologies is carried out in the form of Master's qualification thesis defense and ends with the issuance of a standard-issue document of awarding him a Master's Degree with a qualification: a Master of Information Systems and Technologies.

The attestation is carried out openly and publicly.

4. Matrix of compliance of program competencies to the components of the educational program

												_											
	GC 1	GC 2	GC 3	PC 1	PC 2	PC 3	PC 4	PC 5	PC 6	PC 7	PC 8	PC 9	PC 10	PC 11	PC 12	PC 13	PC 14	PC 15	PC 16	PC 17	PC 20	PC 21	PC 22
CC 1	•																						
CC 2		•																					
CC 3			•																				
CC 4									•														
CC 5								•															
CC 6					•																		
CC 7							•																
CC 8											•												
CC 9								•															
CC 10										•													
CC 11				•	•																		
CC 12				•								•									•	•	
CC 13												•	•								•	•	•
CC 14				•											•							•	
SC 1																					•	•	•
SC 2																							•
SC 3						•																	
SS 1.1												•					•	•					
SS 1.2													•	•					•				
SS 1.3					•										•	•				•			
SS 2.1												•					•	•					
SS 2.2													•	•					•				
SS 2.3					•										•	•				•			

5. Matrix providing program training results for the corresponding components of the educational program

				-	unc					P																
	RTg 1	$RT_{\mathfrak{L}}$ 2	RTg 3	RTo 4	RTg 5	RTg 6	RTg 7	$RT_{\mathfrak{L}}$ 8	RT 1	RT 2	RT 3	RT 4	RT 5	RT 6	RT 7	RT 8	RT 9	RT 10	RT 11	RT 12	RT 13	RT 14	RT 15	71 TG	RT 17	RT 18
CC 1	•																									
CC 2		•																								
CC 3			•																							
CC 4							•								•											
CC 5													•													
CC 6										•																
CC 7												•														
CC 8																•										
CC 9													•													
CC 10															•											
CC 11									•	•																
CC 12				•	•	•	•		•										•					•	•	
CC 13					•	•																		•	•	•
CC 14									•										•					•	•	
SC 1					•	•																	•	•	•	•
SC 2																										•
SC 3											•															
SS 1.1						•	•											•	•		•					
SS 1.2					•														•	•		•				
SS 1.3				•				•		•	•										•					
SS 2.1						•	•											•	•		•					
SS 2.2					•														•	•		•				
SS 2.3				•				•		•	•										•					

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Head of the graduation department M.D. Godlevsk												vsk	У									
													(si	gna	atuı	re)		(1	ast	naı	me)	١
Head of the project team (guarantor of the educational program)																						
																	 V.V	'. S	har	one	<u>ova</u>	
													(si	gna	atuı	re)		(1	ast	naı	me))