

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
LVIV POLYTECHNIC NATIONAL UNIVERSITY**

«APPROVED»
Rector of
Lviv polytechnic National university
_____/Bobalo Yu./
«____» _____ 2022

EDUCATIONAL AND PROFESSIONAL PROGRAM

Of the third level of high education

Specialty: 126 *Information Systems and Technologies*

Branch of knowledge: 12 *Information technologies*

Academic degree: Doctor of Philosophy,

Specialty: *Information systems and technologies*

Reviewed and approved
at the meeting of the Academic Council
of Lviv Polytechnic National University
«____» _____ 2022
Protocol # _____

Lviv 2022

Developed by the working group of scientific and methodological commission of specialty **126 "Information Systems and Technologies** of Lviv Polytechnic National University consisting of:

Chair of working group

(guarantor):

Burov Yevgen – doctor of science, professor, full professor,
ISN dept

Members:

Demkiv L. – doctor of science, full professor

Pasichnyk V. – doctor of science, full professor, ISN dept

Lytvyn V – doctor of science, full professor

Garantor _____ doctor of science, professor Burov Ye.

Approved and enacted by the Order of the Rector of Lviv Polytechnic National University from «____» _____ 2022 # ____.

This educational and professional program cannot be fully or partially reproduced, replicated, and distributed without the permission of Lviv Polytechnic National University.

I. EDUCATIONAL COMPONENT OF THE EDUCATIONAL AND SCIENTIFIC PROGRAM ГРАМІ

1. Ph.D. Program Profile specialty 126 "Information systems and technologies"

1 – general information	
1	2
Full name of the higher education institution and structural unit	Lviv Polytechnic National University
Level of higher education	Third level
Higher Education Degree	Doctor of Philosophy
Branch of knowledge	12 Information technologies
Specialty	126 Information systems and technologies
Restrictions on forms of education	No restrictions
Educational qualifications	Doctor of Philosophy in Information Systems and Technologies
Qualification in diploma	The name of the higher education institution (research institution) in which the training was carried out, the name of the higher education institution (scientific institution) in the specialized academic council of which scientific achievements are protected, as well as the name of the qualification. Doctor of Philosophy in the field of knowledge 12 "Information technologies", specialty 126 "Information systems and technologies". If the dissertation research is carried out in related fields of knowledge, the degrees of Doctor of Philosophy and Doctor of Science are awarded in a leading field, indicating the interdisciplinary nature of the work.
The official name of the educational program	Information Systems and Technologies
Type of diploma and scope of educational program	Diploma of Doctor of Philosophy, single. The volume of the educational component of the educational and scientific program is 43 ECTS credits. At least 35% of the educational program should be directed to obtain general and special (professional) competencies in the specialty defined by the Standard of Higher Education, The term of the educational component of the educational and scientific program is 2 years
Cycle/level	LDC of Ukraine – level 8, FQ-EHEA – third cycle, EQF-LLL – level 8
Prerequisites	Availability of a master's level
Language(s) of instruction	Ukrainian
Basic concepts and their definitions	The educational and scientific program uses the basic concepts and their definitions in accordance with the Law of Ukraine "On Higher Education" of 01.07.2014, No 1556-VII with amendments and additions, the Law of Ukraine "On scientific and scientific-technical activity" of 26.11.2015, No 848-VIII with amendments and additions, the Procedure for training higher education applicants for the degree of Doctor of Philosophy and Doctor of Sciences in higher educational institutions (research institutions), approved by the Resolution of the Cabinet of Ministers of 23.03.2016 No 261. Methodological recommendations for the development of higher education standards

	approved by the higher education sector of the Scientific and Methodological Council of the Ministry of Education and Science of Ukraine (protocol of 29.03.2016, No 3)
2 – The purpose of the educational program	
	To deepen theoretical knowledge and practical skills in the field of information technology in the specialty of information systems and technologies, to develop philosophical and linguistic competencies, to form universal skills of the researcher sufficient for conducting and successful completion of scientific research and further professional scientific and teaching activities
3 - Characteristics of the educational program	
Domain description	<p>Object(s) of study and/or activity (phenomena or problems that are studied): principles, criteria, models, methods, methodologies and technologies of design, creation and effective application of information processing systems in order to solve urgent problems using information technology.</p> <p>The purpose of training (expected application of acquired competencies): formation and development of general and professional competencies in the field of ensuring the life cycle of information systems and relevant information technologies that contribute to the social stability and mobility of graduates in the labor market; obtaining higher education at the third (educational and scientific) level, which allows the graduate to successfully carry out research, design, development, implementation and effective application of information systems and technologies (ICT) in various fields of human activity, national economy and production.</p> <p>The theoretical content of the subject area includes concepts and principles (theoretical and methodological foundations and tools for creating and using information technologies; evaluation criteria and methods for ensuring quality, reliability, fault tolerance, survivability and security of information technologies and systems, optimization principles, models and methods of decision-making under conditions of uncertainty; patterns of building information communications, theoretical and applied principles construction and implementation of intellectual information technologies) as such, ensuring the acquisition of relevant competencies by the graduate.</p> <p>Methods, techniques and technologies (which must be mastered by the applicant for practical use): the applicant must master the methods, methods and technologies of scientific research, teaching, team management in solving problems of designing information systems, creating, researching, optimizing and maintaining such objects by methods, methodologies, techniques and approaches of related industries in which ICT is used.</p> <p>Tools and equipment (objects, and devices that the applicant learns to use and use): the applicant must be able to use computer equipment, instrumentation, hardware, software and hardware complexes, network technologies, etc.</p>
Orientation of the educational program	The educational and scientific program is based on the fundamental postulates of creation, implementation and maintenance of information systems and the results of modern scientific research in the field of innovative development of the theory and practice of information technology. It is aimed at the actual aspects of the specialty, within which further scientific and teaching career is possible.

Features and differences	The scientific component of the educational and scientific program is determined by the individual curriculum of the graduate student
4 – Eligibility for Education Program Graduates to employment and further education	
Eligibility for employment	Jobs in public and private higher educational institutions, scientific and research institutions as teachers and researchers, in enterprises and organizations of various types of activities and forms of ownership in managerial positions.
Further education	Scientific program of the fourth (scientific) level of higher education "Doctor of Science"
5 – Teaching and assessment	
Teaching & Learning	Combination of lectures and practical classes, research laboratory works, pedagogical workshop, consultation with the supervisor, scientific and pedagogical community with independent scientific and educational work
Evaluation	Examinations, current control, laboratory reports, essays, presentations.
6 – Program competencies	
Integral competence (IHT)	Ability to solve complex problems in the field of professional and / or research and innovation activities, which involves deep rethinking of existing and creation of new holistic knowledge and / or professional practice.
General competencies (3K)	<p>K01. Ability to abstract thinking, analysis and synthesis, to form a systemic scientific worldview, professional ethics and general cultural outlook.</p> <p>K02. Ability to apply theoretical knowledge in practical situations in scientific activity.</p> <p>K03. Ability to initiate research and innovation projects and work autonomously during their implementation</p> <p>K04. Ability to communicate with colleagues, the broad academic community and the public in Ukrainian and one of the foreign languages of the European space.</p> <p>K05. Understanding the importance of ethical norms and copyright in conducting research, presenting their results and in scientific and pedagogical activities, as well as the ability to protect copyright and prepare patents.</p> <p>K06. Ability to identify, pose and solve problems, generate ideas and make informed decisions.</p>
Special (professional) competencies (ФК)	<p>K07. Ability to develop scientific and methodological foundations for the creation and application of information technologies and systems for automated information processing and management.</p> <p>K08. Possession of skills in developing and researching models and methods for assessing quality and improving the reliability, functional security and survivability of information systems and digital services.</p> <p>K09. Possession of methods of planning and conducting experiments (including active, passive, simulation), statistical processing of their results.</p> <p>K10. The ability to organize the development of creative initiative, rationalization, invention, introduction of achievements of domestic and foreign science, technology, the use of best practices that ensure the effective work of a unit, enterprise, educational institution, research or design institution.</p> <p>K11. Availability of a system of special knowledge on the organization of the pedagogical process in higher education</p>

	<p>institutions and the use of pedagogical technologies in higher education; basic knowledge in the field of modern information technologies; basic knowledge of pedagogy and psychology of higher education, necessary for teaching a complex of special disciplines in the process of training specialists in information systems and technologies.</p> <p>K12. Ability to develop fundamental models of information technology, design and prototype information systems and digital services.</p> <p>K13. The ability to organize and support the implementation of a set of measures for information security, manage the process of their implementation, taking into account the tasks to be solved and the organizational structure of the object of protection, external influences, threats and the level of development of information security technologies.</p> <p>K14. Ability to analyze data and evaluate the necessary knowledge to solve non-standard problems using mathematical methods and computer modeling methods.</p> <p>K15. Ability to manage information resources, information systems and digital services.</p> <p>K16. Mastering general scientific (philosophical) competencies aimed at forming a systemic scientific worldview, professional ethics and general cultural outlook; application of modern information technologies in scientific activity (work with NMBD, automatic formation of links to literary sources).</p> <p>K17. Acquisition of universal skills of the researcher, in particular, organizing and conducting training sessions, application of modern information technologies (work with VNS, Microsoft Teams, ZOOM, etc.).</p> <p>K18. Acquisition of universal skills of a researcher, in particular oral and written presentation of the results of his/her own scientific research in Ukrainian, management of scientific projects and/or drawing up proposals for research funding, registration of intellectual property rights, application of modern information technologies.</p> <p>K19. Acquisition of in-depth knowledge in the specialty in which the graduate student conducts research, in particular mastering basic concepts, understanding theoretical and practical problems, history of development and the current state of scientific knowledge in the chosen specialty, mastering terminology in the studied scientific direction in the amount of ECTS credits in accordance with the standard of higher education.</p>
7 – Programmatic learning outcomes	
<p>Knowledge (ПР)</p>	<p>P01. <i>Analyze</i> the fundamental and modern works of leading foreign and domestic scientists in the chosen field of research, <i>formulate the</i> goals and objectives of their own scientific research as components of the general civilization process.</p> <p>P02. <i>Possession of</i> general scientific philosophical knowledge necessary for the formulation of a scientific worldview, professional ethics and cultural outlook.</p> <p>P03. <i>Present and discuss</i> scientific results in the state and foreign languages orally and in writing.</p> <p>P04. <i>Perform</i> original scientific research of information systems and digital services at the appropriate professional level, <i>achieve</i></p>

	<p>scientific results that create new knowledge to solve urgent problems.</p> <p>P05. Manage scientific projects and/or prepare proposals for research funding.</p> <p>P06. Collaborate with experts from various fields in scientific projects on the development and research of information systems and technologies, <i>using</i> the principles of professional ethics and skills of professional ethical behavior.</p> <p>P07. Apply scientific and pedagogical technologies, <i>formulate the</i> content, learning objectives, ways to achieve them, forms of control, <i>be responsible</i> for the effectiveness of the educational process.</p> <p>P08. Design integral systems from Industry 4.0 (including end devices, network connections, cloud platforms, implementation of data exchange and analysis, etc.).</p> <p>P09. Implement software optimization in accordance with the principles of service-oriented architecture of distributed software systems.</p> <p>P10. Manage the processes of creating and using information systems and digital services.</p> <p>P11. Apply methods of protecting computer information in the design of information systems and digital services in various subject areas.</p> <p>P12. Apply methods of consolidation, transformation, visualization, quality assessment and data pre-processing for qualitative preparation of data for analysis.</p> <p>P13. Conduct intelligent analysis of electronic data sets to solve specific practical problems.</p> <p>P14. Be able to apply foreign and domestic universal software and analytical platforms to search for patterns, connections, rules, knowledge in electronic data sets.</p> <p>P15. Apply modern software and hardware to solve applied problems of building information systems and digital services.</p> <p>P16. Reengineer applied information systems, business processes and digital services.</p> <p>P17. Design and optimize IT infrastructure support information systems using modern tools.</p>
<p>Communication (KOM)</p>	<ol style="list-style-type: none"> 1) Ability to communicate, apply different styles of speech, methods and techniques of communication, demonstrate a wide scientific and professional terminological vocabulary. 2) Ability to use a variety of tools, including modern information technology, to communicate effectively at professional and social levels.
<p>Autonomy and responsibility (AiB)</p>	<ol style="list-style-type: none"> 1) Ability to adapt to new situations and make appropriate decisions. 2) Ability to realize the need for lifelong learning in order to deepen acquired and acquire new professional knowledge. 3) The ability to responsibly treat the work performed, make decisions independently, achieve the goal in compliance with the requirements of professional ethics.
<p>8 – Resource support for program implementation</p>	
<p>Specific characteristics of staffing</p>	<p>100% of scientific and pedagogical workers involved in teaching a cycle of disciplines that provide special (professional) competencies</p>

	of a graduate student, have scientific degrees and academic titles, are recognized professionals with experience in research, management or innovation work in the specialty
Specific characteristics of tools and means	Use of modern computer tools and software.
Specific characteristics of information and methodological support	Use of the virtual learning environment of Lviv Polytechnic National University and author's developments of scientific and pedagogical workers, namely: textbooks and manuals with the stamp of the Ministry of Education and Science of Ukraine series "Informatics", "Computing" and "Consolidated Information"; textbooks and manuals with the stamp of the Academic Council of Lviv Polytechnic National University.
9 – Academic mobility	
National credit mobility	On the basis of bilateral agreements between Lviv Polytechnic National University and technical universities of Ukraine The Academic Council of Lviv Polytechnic National University has the right to make a decision on the recognition of competencies acquired by a graduate student in other higher education institutions (research institutions) in one or several academic disciplines (credits ECTS), the obligatory acquisition of which is provided for by the educational and scientific program of postgraduate studies.
International credit mobility	On the basis of bilateral agreements between Lviv Polytechnic National University and higher educational institutions of foreign partner countries
Training of foreign applicants for higher education	Is possible

2. The distribution of content of educational and professional program by component groups and education cycles

#	Education cycles	The amount of postgraduate student workload (credits / %)		
		Required components	Selective components	Total for the entire period of study
1.	A cycle of disciplines that form general scientific competencies and universal skills of a researcher	21/49	3/7	24/56
2.	Cycle of disciplines that form professional competencies	10/23	6/14	16/37
3.	Cycle of disciplines of free choice of student	-	3/7	3/7
Total for the entire period of study		31/72	12/28	43/100

3. List of components of the educational and professional program

Code	Component Name	The size of the component in ECTS credits	Summary control form
1	2	3	5
REQUIRED COMPONENTS			
<i>I. General study cycle</i>			
<i>A cycle of disciplines that form general scientific competencies and universal skills of a researcher</i>			
<i>OK1.1.</i>	Philosophy and methodology of science	3	exam
<i>OK1.2.</i>	Foreign Language for Academic Purposes, part 1	4	diff. test
<i>OK1.3.</i>	Foreign Language for Academic Purposes, part 2	4	exam
<i>OK1.4.</i>	Professional pedagogy	3	diff. test
<i>OK1.5.</i>	Academic entrepreneurship	4	diff. test
<i>OK1.6.</i>	Pedagogical practice	3	diff. test
Total cycle:		21	
<i>II. Cycle of professional study</i>			
<i>Cycle of disciplines that form professional competencies</i>			
<i>OK2.1.</i>	Methods of analysis and optimization of complex systems	4	exam
<i>OK2.2.</i>	Research seminar on specialty 126 Information systems and technologies	3	diff. test
<i>OK2.3.</i>	Distributed Information Systems and Technologies	3	diff. test
Total cycle:		10	
Total required components of the specialty:		31	
SELECTIVE COMPONENTS OF THE EDUCATIONAL AND PROFESSIONAL PROGRAM			
<i>I. General study cycle</i>			
<i>A cycle of disciplines that form general scientific competencies and universal skills of a researcher</i>			
<i>B1.1</i>	Business English	3	diff. test
<i>B1.2</i>	Psychology of creativity and invention	3	diff. test
<i>B1.3</i>	Scientific Project Management	3	diff. test
<i>B1.4</i>	Technology of registration of grant applications and patent rights	3	diff. test
<i>B1.5</i>	Rhetoric	3	diff. test
<i>BE1.6</i>	Modern invention in research activities	3	diff. test
<i>BE1.7</i>	Open scientific practices	3	diff. test
<i>BE1.8</i>	Academic integrity and quality of education	3	diff. test
<i>BE1.9</i>	Methodology for preparing scientific publications	3	diff. test
<i>BE1.10</i>	Quality of higher education (formation of internal quality assurance systems)	3	diff. test
Total cycle:		3	

1	2	3	5
II. Cycle of professional study			
<i>Cycle of disciplines that form professional competencies</i>			
<i>BB2.1</i>	Intelligent decision support systems	3	exam
<i>BB2.2</i>	Model-oriented methods of Information systems development	3	exam
<i>BB2.3</i>	Electronic science and knowledge management in socio-communication projects and programs	3	exam
<i>BB2.4</i>	Methods of analysis of natural language texts	3	exam
<i>BB2.5</i>	Methods and means of quantitative linguistics	3	exam
<i>BB2.6</i>	Pattern recognition in situational awareness systems	3	exam
<i>BB2.7</i>	IT project, portfolio and program management technologies	3	exam
<i>BB2.8</i>	Modeling, analysis and synthesis of interaction of complex information systems	3	exam
<i>BB2.9</i>	Project management for the development of information systems and technologies	3	exam
<i>BB2.10</i>	Innovation and Entrepreneurship in Information Technology	3	exam
Total cycle:		6 (3+3)	
Discipline of free choice of graduate student			
<i>BB3.1</i>	Discipline of free choice of graduate student	3	diff. test
Total cycle:		3	
Total selective components		12	
Total for the educational and professional program:		43	

1. Matrix of correspondence of program competencies to the educational components of educational and scientific program of Doctor of Philosophy in the specialty "Information systems and technologies"

Code	Competence																			
	Integral	General competencies						Special (professional) competencies												
	IHT	K01	K02	K03	K04	K05	K06	K07	K08	K09	K10	K11	K12	K13	K14	K15	K16	K17	K18	K19
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
OK1.1	•	•			•							•					•			
OK1.2	•		•		•							•								
OK1.3	•		•		•							•								
OK1.4	•	•	•		•	•	•	•			•	•	•			•		•		
OK1.5	•		•	•	•	•	•				•		•	•	•				•	
OK1.6	•	•	•		•	•	•				•	•						•		
OK2.1	•	•	•	•	•	•	•		•	•	•		•		•					•
OK2.2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
OK2.3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

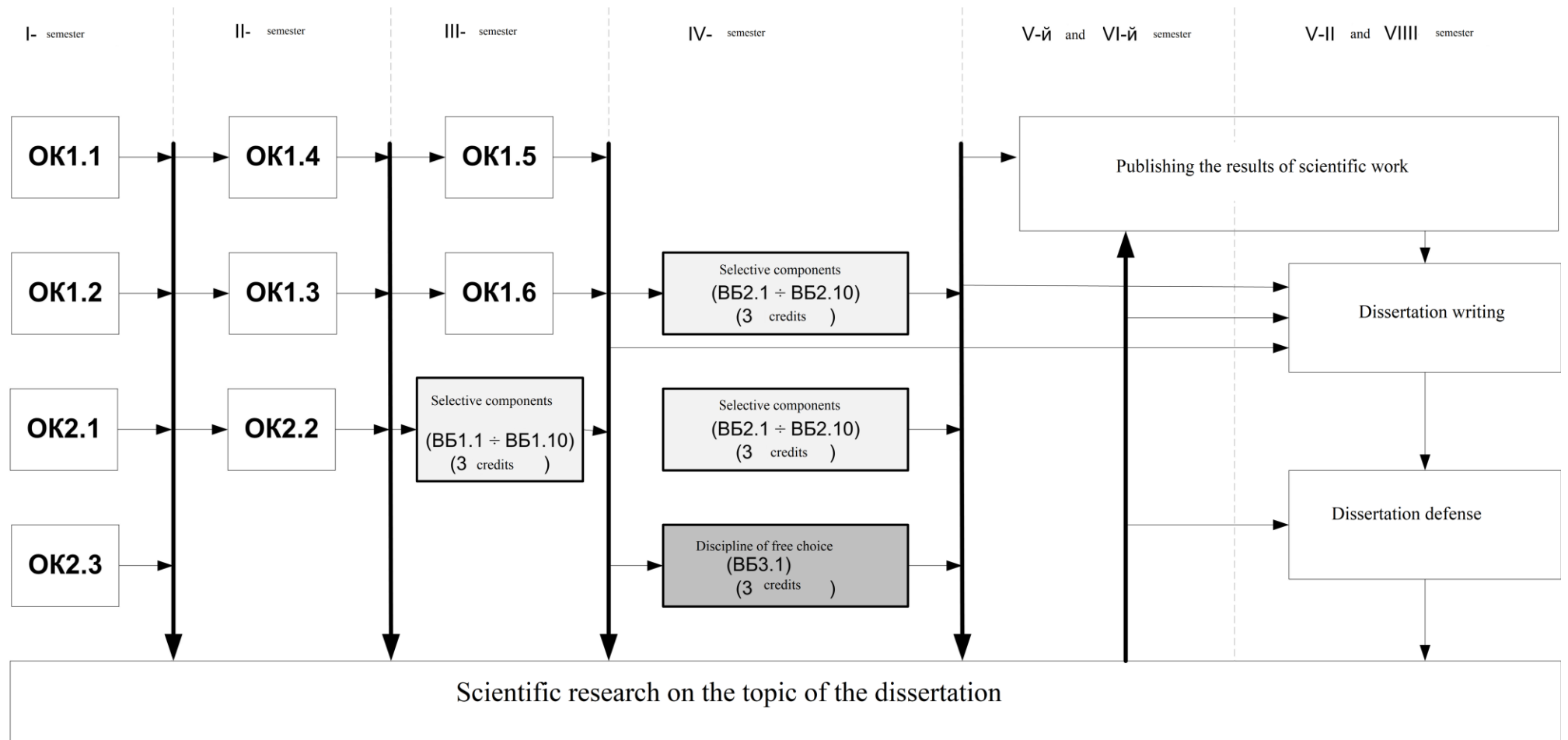
Legend: OK1.i – required discipline of the general training cycle, OK2.i – required discipline of the selective training cycle, i – number of the discipline in the list of components of the educational component, INT – integral competence, K_j – general or professional competence, j – competence number in the list of competencies of the educational component.

5. Matrix of providing program learning outcomes with relevant components of the educational component educational and professional program of Doctor of Philosophy in the specialty "Information systems and technologies"

Learning outcomes	Required components of the educational component of the specialty								
	OK1.1	OK1.2	OK1.3	OK1.4	OK1.5	OK1.6	OK2.1	OK2.2	OK2.3
P01							•	•	•
P02	•								
P03		•	•				•	•	•
P04							•	•	•
P05					•		•	•	
P06					•		•	•	•
P07				•		•	•	•	•
P08								•	•
P09								•	•
P10				•				•	•
P11								•	•
P12							•	•	•
P13							•	•	
P14							•	•	•
P15								•	•
P16								•	•
P17								•	•
KOM1	•	•	•	•	•	•	•	•	•
KOM2					•		•	•	•
AiB1	•	•	•	•	•	•	•	•	•
AiB2	•	•	•	•	•	•	•	•	•
AiB3	•	•	•	•	•	•	•	•	•

Legend: OK1.i – required discipline of the general training cycle, OK2.i – required discipline of the professional training cycle, i – number of the discipline in the list of components of the educational component, ПPm – program results (knowledge), KOMm – program results (communication), AiBm – program results (autonomy and responsibility), m – number of the program result in the list of program results of the educational component.

6. Structural and logical scheme of the educational and scientific program of the third (educational and scientific) level of higher education for specialty 126 "Information systems and technologies»



II. The scientific component of the educational and scientific program

The scientific component of the educational and scientific program involves conducting a postgraduate student's own scientific research under the guidance of one or two supervisors and formatting its results in the form of a dissertation.

The dissertation for the degree of Doctor of Philosophy is an independent detailed research that offers the solution of an actual scientific problem in the specialty 126 "Information Systems and Technologies", the results of which are characterized by scientific novelty and practical value and published in relevant publications.

The scientific component of the educational and scientific program is drawn up in the form of an individual plan of scientific work of the graduate student and is an integral part of the postgraduate curriculum.

An integral part of the scientific component of the educational and scientific program of postgraduate studies is the preparation and publication of scientific articles, speeches at scientific conferences, scientific professional seminars, round tables, symposia.

Research topics in specialty 126 "Information systems and technologies":

1. Development of scientific and methodological foundations for the creation and application of information technologies and information systems for automated information processing and management.
2. Development of information technologies for analysis and synthesis of structural, informational and functional models of automated objects and processes.
3. Development of models and methods for automating the functions and tasks of production and organizational management in conventional and multi-level structures based on the creation and use of new information technologies.
4. Research and construction of information technologies for the development and implementation of databases and data warehouses, knowledge bases and computer support systems for solutions in information systems and networks.
5. Creation of information technologies for the purpose of research, development and implementation of communication protocols and tools for building universal and specialized computer systems and networks, in particular the information systems in education.
6. Development of theoretical and applied foundations of information technology construction for automation of functional tasks of management, analysis and evaluation of efficiency of information processing and control systems.
7. Creation of information technologies for system analysis, research, development of architecture and methods for building multilevel, geographically distributed computer systems and networks with distributed databases and knowledge, including commercial ones.
8. Building information technologies for effective software development of computer networks and distributed data processing systems.
9. Creation of information technologies for the development of models and methods of control, classification, coding and ensuring the reliability of information, as well as for mathematical modeling of errors in data exchange paths in information communication networks.

10. Modeling of subject areas of information systems (analytical, simulation, infological, object-oriented, etc.) on the basis of creation and application of appropriate information technologies.
11. Development of information retrieval and expert information processing systems for decision-making, as well as knowledge of oriented decision support systems in conditions of risk and uncertainty as intelligent information technologies.
12. Development of information technologies for construction and implementation: automated systems of technical diagnostics, geographic information systems for various purposes and computer systems of e-business.
13. Creation of information technologies for the development of models, methods and tools for information retrieval and telecommunication systems, networks and means of information support of libraries, museums and archives (electronic catalogs, automated workplaces, computer bibliography, systems of automated import of documents, etc.).
14. Development and research of models and methods for assessing the quality and improving the reliability, functional safety and survivability of information and information-control systems, as well as information technologies for creating robust systems for information processing and critical application management.
15. Research, development and implementation of Internet technologies for building service-oriented systems, as well as for the organization and implementation of distributed information processing systems.

III. Certification of PhD students

Forms of certification of applicants for higher education	Certification is carried out in the form of public defense of the PhD dissertation work.
Requirements for dissertation	<p>Requirements for the content and design of dissertations are established by separate provisions.</p> <p>The dissertation should be published on the official website of the higher education institution or its subdivision, or in the repository of the higher education institution.</p> <p>Publication of dissertations containing information with restricted access should be carried out in accordance with the requirements of current legislation</p>
Requirements for public defense (demonstration) (if available)	Requirements regarding the procedure and special conditions for conducting public defense are determined by separate provisions.

IV. Requirements for the internal quality assurance system of higher education

Lviv Polytechnic National University has a system of ensuring the quality of educational activity and quality of higher education by a higher educational institution (internal quality assurance system), which provides for the implementation of such procedures and measures:

1. definition of principles and procedures for quality assurance in higher education;
2. monitoring and periodic review of educational programs;
3. annual evaluation of higher education students, scientific-pedagogical and pedagogical staff of the higher educational institution and regular publication of the results of such assessments on the official website of the higher educational institution, on information stands and in any other way;
4. ensuring advanced training of pedagogical, scientific and scientific-pedagogical workers;
5. ensuring the availability of necessary resources for the organization of the educational process, including independent work of students, for each educational program;
6. ensuring the availability of information systems for effective management of the educational process;
7. ensuring the publicity of information about educational programs, higher education degrees and qualifications;
8. ensuring an effective system for preventing and detecting academic plagiarism in the scientific works of employees of higher educational institutions and applicants for higher education;
9. other procedures and measures

The system of ensuring the quality of educational activity and quality of higher education (internal quality assurance system) on the proposal of the higher education institution is assessed by the National Agency for Higher Education Quality Assurance or independent institutions for higher education quality assessment and assurance accredited by it for its compliance with the requirements for the higher education quality assurance system approved by the National Agency.

Lviv Polytechnic National University has a Center for Quality Assurance in Education, the main tasks of which are:

- ensuring the growth of the quality of education at the University;
- creating a holistic view of the quality of educational activities and the quality of higher education at the University and their dynamics;
- development of tools for quality management of education at the University;
- constant and systematic monitoring of the quality of educational services at the University for compliance with the criteria for accreditation of educational programs;
- moderation of processes necessary to ensure the quality of educational activities and the quality of higher education at the University (informational, recommendatory, role, target, etc.).