

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

«APPROVED»

Rector of Lviv Polytechnic  
National University

\_\_\_\_\_ /Bobalo Yu./  
« \_\_\_\_ » \_\_\_\_\_ 2021 p.

**EDUCATIONAL-SCIENTIFIC PROGRAM**

third (educational and scientific) level of higher education  
specialty 072 Finance, banking, and insurance  
field of knowledge 07 Management and administration

Qualification: Doctor of Philosophy (Ph.D.) in specialty “Finance, banking and insurance”

Reviewed and approved by the  
Academic Council of the  
University  
(Protocol No \_\_\_\_\_ date  
« \_\_\_\_ » \_\_\_\_\_ 2021)

Lviv 2021

Developed by the working group of the specialty 072 «Finance, banking, and insurance» in the composition:

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V. Rysin

Approved and put into force by order of the Rector of Lviv Polytechnic National University date «\_\_\_»  
\_\_\_\_\_ 20\_\_\_. No \_\_\_\_\_.

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## LETTER OF AGREEMENT

The educational and scientific program

Level of higher education

Third (educational and scientific)

Field of knowledge

07 Management and administration

Specialty

072 Finance, banking, and insurance

Qualification

Doctor of Philosophy

### APPROVED

Scientific and Methodological

Commission of speciality

072 Finance, banking, and insurance

Protocol No \_\_\_\_\_

date «\_\_» \_\_\_\_\_ 2021

### AGREED

Head of the educational and  
methodological department

\_\_\_\_\_ Sviridov V.

«\_\_» \_\_\_\_\_ 2021

Head of the SMC of the speciality

072 Finance, banking, and insurance

\_\_\_\_\_

«\_\_» \_\_\_\_\_ 2021

Vice-rector for scientific work

\_\_\_\_\_ Demydov I.

«\_\_» \_\_\_\_\_ 2021

Director of the Institute of Economics and  
Management

\_\_\_\_\_ O. Kuzmin

«\_\_» \_\_\_\_\_ 2021

Vice-rector for scientific and  
pedagogical work

\_\_\_\_\_ Davydchak O.

«\_\_» \_\_\_\_\_ 2021

### RECOMMENDED

Scientific and methodological council of

Lviv Polytechnic Protocol No \_\_\_\_\_

date «\_\_» \_\_\_\_\_ 2021

Head of the SMC

\_\_\_\_\_ A. Zahorodnii

# I. EDUCATIONAL COMPONENT OF THE EDUCATIONAL-SCIENTIFIC PROGRAM

## 1. Profile of the educational-scientific program on specialty 072 Finance, banking, and insurance

<b>1 – Загальна інформація / General information</b>	
<b>Full name of the institution of higher education and structural unit</b>	Lviv Polytechnic National University Department of Finance
<b>Full title of the qualification in the original language</b>	Doctor of Philosophy in Management and Administration by Specialty of Finance, Banking and Insurance
<b>The official name of the educational and scientific program</b>	Finance, Banking and Insurance
<b>Type of diploma and scope of the educational program</b>	Diploma of Doctor of Philosophy, single, 43 credits ECTS of the educational component, term of an educational component – 2 years
<b>Cycle / level</b>	NFC of Ukraine – 8 <sup>th</sup> level, QF-EHEA – 3 <sup>rd</sup> cycle, EQF for LLL - 8 <sup>th</sup> level
<b>Prerequisites</b>	Master degree
<b>Language (s) of teaching</b>	Ukrainian, English
<b>Basic concepts and their definitions</b>	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 № 1556-VII with changes and additions, the Law of Ukraine "On Education" of 05.09.2017 №2145- VIII with changes and additions, the Law of Ukraine "On scientific and scientific and technical activities" of 26.11.2015 № 848-VIII with changes and additions, the Procedure for training applicants for higher education degree of Doctor of Philosophy and Doctor of Science in higher education institutions (scientific institutions ), approved by the Resolution of the Cabinet of Ministers dated 23.03.2016 № 261 with changes and additions, the Procedure for conducting an experiment in awarding the degree of Doctor of Philosophy, approved by the Resolution of the Cabinet of Ministers of Ukraine dated 06.03.2019 №167, Guidelines for developing standards of higher education, approved by the Order of the Ministry of Education and Science of Ukraine dated 01.06.2017 №600 with changes and additions

<b>2 – Purpose of the program</b>	
	The purpose of the program is to train a highly qualified specialist in the field of knowledge 07 "Management and Administration" in specialty 072 "Finance, Banking and Insurance" by forming and developing program competencies needed to solve complex problems in the field of professional and innovative activities, developing universal skills of the researcher, sufficient to conduct and successfully complete the original research in finance, banking and insurance.
<b>3 - Characteristic of the program</b>	
<b>Subject area</b>	field of knowledge 07 Management and administration specialty 072 Finance, banking, and insurance
<b>Orientation of the educational-scientific program</b>	Program focused on deepening the professional scientific worldview and developing skills for research and further professional activity.
<b>Features of the program</b>	The program covers a wide range of modern innovative vectors of development of the theory and practice of finance, banking and insurance, which forms an updated theoretical and applied basis for research.
<b>4 –Suitability of graduates for employment and further education</b>	
<b>Suitability for employment</b>	Research and teaching activities, administrative activities in public and private institutions of higher education, research and development institutions, management activities in the business sector
<b>Further education</b>	Opportunity to continue education for the degree of Doctor of Sciences in specialty 072 Finance, Banking and Insurance or other related (related) specialties in the field of knowledge 07 Management and Administration
<b>5 –Teaching and assessment</b>	
<b>Teaching and learning</b>	Teaching and learning are carried out on the basis of problem-oriented approach in the form of lectures, seminars, practical classes, individual work, consultations with teachers, acquaintance with scientific works in scientific and metric bases. In the process of learning modern information technologies of distance learning are used, free access to electronic resources is provided. Training under the program involves the promotion of academic mobility and internships for applicants.
<b>Assessment</b>	Assessment for all types of classroom and extracurricular educational activities in the form of intermediate and / or final (semester) control

<b>6 – Program competencies</b>	
<b>Integral competence</b>	Ability to produce innovative scientific ideas, solve complex problems in the process of innovation, research and professional activities, to conduct original research in the field of finance, banking and insurance at the international and national levels
<b>General competences</b>	<p>GC1. Initiation, planning, implementation and adjustment of a consistent process of thorough research with due academic integrity</p> <p>GC 2. Mastering general scientific (philosophical) competencies aimed at forming a systematic scientific worldview, professional ethics and general cultural outlook; application of modern information technologies in scientific activity (work with NMBD, automatic formation of references to literature sources)</p> <p>GC 3. Innovation, a high degree of independence, academic and professional integrity, constant commitment to the development of new ideas or processes in the advanced contexts of professional and scientific activities.</p> <p>GC 4. Free communication on issues related to the field of scientific and expert knowledge, with colleagues, the wider scientific community, society as a whole.</p> <p>GC 5. Acquisition of language competencies sufficient for presentation and discussion of the results of their scientific work in a foreign language in oral and written form, as well as for full understanding of foreign scientific texts in the relevant specialty, application of modern information technologies (presentation of scientific results).</p> <p>GC 6. Critical analysis, evaluation and synthesis of new and complex ideas.</p> <p>GC 7. Ability for continuous self-development and self-improvement</p>
<b>Special (professional) competencies</b>	<p>FC1. Specialized skills and techniques needed to solve significant problems in finance, banking and insurance, science and / or innovation, expanding and reassessing existing knowledge and professional practice.</p> <p>FC2. Application of analytical research methods to study the financial condition of enterprises and financial institutions, forecasting the likelihood of problematic situations in their activities.</p> <p>FC3. Management of financial resources of financial market entities; risk assessment of banks, insurance companies and other non-banking institutions in conditions of economic instability</p> <p>FC4. Acquisition of universal skills of the researcher, in particular oral and written presentation of results of own research in Ukrainian, management of scientific projects and / or drawing up of offers concerning financing of scientific research, registration of the intellectual property rights, application of modern information technologies</p> <p>FC5. Thorough mastering of skills of modeling of financial decisions in the conditions of uncertainty at occurrence of various financial and economic situations with unpredictable dynamics of financial results on the basis of application of economic and mathematical methods and models; skills of rational selection of effective financial decisions obtained in the process of modeling, which would be subject to the criteria of optimality and would be achieved by strictly effective financial transactions.</p>

	<p>FC6. The ability to choose the methods necessary to achieve the goal of the study</p> <p>FC7. Acquisition of universal skills of the researcher, in particular, the organization and carrying out of educational employment, application of modern information technologies (work with the Virtual educational environment, Microsoft Teams, Zoom, etc.).</p>
<b>7 –Program learning outcomes</b>	
<b>Knowledge</b>	<p>PLO 1. Demonstrate conceptual and methodological knowledge in the field of management and administration.</p> <p>PLO 2. Know the works of leading foreign scientists, scientific schools, and fundamental works in the field of research.</p> <p>PLO 3. Know the state language and at least one of the foreign languages at a professional level</p>
<b>Skills</b>	<p>PLO 4. Apply specialized skills and techniques needed to solve significant problems in finance, banking and insurance, science and/or innovation, expanding and re-evaluating existing knowledge and professional practice</p> <p>PLO 5. Carry out planning, implementation, and adjustment of the consistent process of thorough scientific research with observance of proper academic integrity.</p> <p>PLO 6. Critically analyze, evaluate and synthesize new and complex ideas.</p> <p>PLO 7. Demonstrate skills of independent research, flexible thinking, openness to new knowledge, evaluate the results of autonomous work, and be responsible for personal professional development and training of others</p> <p>PLO 8. Develop projects in the field of finance, banking, and insurance, manage them and search for partners for the implementation.</p> <p>PLO 9. Use a wide range of economic and mathematical methods and models in modeling financial decisions in conditions of uncertainty; optimize financial decisions using such methods and models</p> <p>PLO 10. To be able to carry out teaching activities in higher education institutions.</p>
<b>Communication</b>	<p>PLO 11. To communicate freely on issues related to the field of scientific and expert knowledge, with colleagues, the wider scientific community, society as a whole</p> <p>PLO 12. Use academic Ukrainian and foreign languages in professional activities and research</p>
<b>Autonomy and responsibility</b>	<p>PLO 13. Demonstrate innovation, a high degree of independence, academic and professional integrity, constant commitment to the development of new ideas or processes in the advanced contexts of professional and scientific activities</p> <p>PLO 14. To be able to continuous self-development and self-improvement</p>
<b>8 –Resource support for the implementation of the program</b>	
<b>Specific characteristics of staffing</b>	<p>The scientific and pedagogical workers involved in the implementation of the program are employees of the university, have a scientific degree and academic title, a confirmed level of academic and professional qualification.</p>

<b>Specific characteristics of technical support</b>	Material and technical support of the educational process meets the requirements and needs for lectures and practical classes, in particular in remote mode. There are local networks with Internet access and the necessary social infrastructure.
<b>Specific characteristics of information and methodological support</b>	Electronic educational and methodical complexes of disciplines are placed in the virtual educational environment of the Lviv Polytechnic National University. The availability of teaching materials for compulsory and elective courses is 100 percent. MS Office 365, MS Project, Diamond FMS application packages are used.
<b>9 –Academic mobility</b>	
<b>National academic mobility</b>	On the basis of bilateral agreements between Lviv Polytechnic National University and educational institutions
<b>International academic mobility</b>	Within the framework of international programs on the basis of bilateral agreements between Lviv Polytechnic National University and educational institutions of partner countries
<b>Foreign postgraduate students study</b>	Possible



## 2. Distribution of the content of the program's educational component by groups of components and cycles of study

№	Cycle of study	Volume of study load (ECTS credits/%)		
		Compulsory components	Elective components	Total for the entire period of study
1.	A cycle of courses that form general scientific competencies and universal skills of a researcher	21/49	3/7	24/56
2.	A cycle of courses that form professional competencies	10/23	6/14	16/37
3.	Cycle of courses of free choice	-	3/7	3/7
Total for the entire period of study		31/72	12/28	43/100

## 3. List of courses of the educational component of the program

Code	Компоненти освітньої складової / Components	Кількість кредитів / ECTS credits	Форма підсумк. контролю / Form of final control
1	2	3	4
<b>1. Обов'язкові компоненти освітньої складової / Compulsory components</b>			
<i>Цикл дисциплін, що формують загальнонаукові компетентності та універсальні навички дослідника / Cycle of courses that form general scientific competencies and universal skills of a researcher</i>			
OK1.1.	Філософія і методологія науки / Philosophy and Methodology of Science	3	екзамен / exam
OK1.2.	Іноземна мова для академічних цілей, частина 1 / English Language For Academic Purposes, part 1	4	залік / current control
OK1.3.	Іноземна мова для академічних цілей, частина 2 / English Language For Academic Purposes, part 2	4	екзамен / exam
OK1.4.	Професійна педагогіка / Professional Pedagogy	3	залік / current control
OK1.5.	Академічне підприємництво / Academic Entrepreneurship	4	залік / current control
OK1.6.	Педагогічна практика / Pedagogical Internship	3	залік / current control
Всього за цикл / Total per cycle:		<b>21</b>	

<i>Цикл дисциплін, що формують фахові компетентності / Cycle of courses that form professional competencies</i>			
OK2.1.	Моделювання фінансових рішень в умовах невизначеності / Modeling of Financial Decisions in Terms of Uncertainty	4	екзамен / exam
OK2.2.	Дослідницький семінар у галузі фінансів, банківської справи та страхування / Research Seminar in Finance, Banking and Insurance	3	залік / current control
OK2.3.	Трансформація функцій регуляторів фінансового ринку / Transformation of Functions of Financial Market Regulators	3	залік / current control
Всього за цикл / Total per cycle:		<b>10</b>	
Всього / Total:		<b>31</b>	
<b>2. Вибіркові компоненти освітньої складової** / Elective components</b>			
<i>Цикл дисциплін, що формують загальнонаукові компетентності та універсальні навички дослідника / Cycle of courses that form general scientific competencies and universal skills of a researcher</i>			
ВБ1.1	Ділова іноземна мова / Business Foreign Language	3	залік / current control
ВБ1.2	Психологія творчості та винахідництва / Psychology of Creativity and Invention	3	залік / current control
ВБ1.3	Управління науковими проектами / Management of Scientific Projects	3	залік / current control
ВБ1.4	Технологія оформлення грантових заявок та патентних прав / Technology of Processing Grant Applications and Patents	3	залік / current control
ВБ1.5	Риторика / Rhetoric	3	залік / current control
ВБ1.6	Сучасна інвентика у науково-дослідній діяльності / Modern Inventory in Research Activities	3	залік / current control
ВБ1.7	Відкриті наукові практики / Open Scientific Practices	3	залік / current control
ВБ1.8	Академічна доброчесність і якість освіти / Academic Integrity and Quality of Education	3	залік / current control
ВБ1.9	Методологія підготовки наукових публікацій / Methodology of Preparation of Scientific Publications	3	залік / current control
ВБ1.10	Якість вищої освіти (формування внутрішніх систем забезпечення якості) / Quality of Higher Education (Formation of Internal Quality Assurance Systems)	3	залік / current control
Всього за цикл / Total per cycle:		<b>3</b>	
<i>Цикл дисциплін, що формують фахові компетентності */ Cycle of courses that form professional competencies</i>			
ВБ2.1	Дослідження стану фінансів підприємств і проблеми їх санації / Investigation of Enterprises Finance and the Problems of their Sanation	3	екзамен / exam
ВБ2.2	Світові тенденції трансформації фінансово-кредитних систем / Global Trends in Financial and Credit Systems Transformation	3	екзамен / exam

ВБ2.3	Методологія стратегічного фінансового контролінгу / Methodology of Strategic Financial Controlling	3	екзамен / exam
ВБ2.4	Тенденції та проблеми розвитку державного фінансового контролю / Trends and Problems of State Financial Control Development	3	екзамен / exam
ВБ2.5	Дослідження тенденцій розвитку світового фінансового ринку / Trends in Financial Services Market Development	3	екзамен / exam
ВБ2.6	Науковий семінар «Теорія і практика проведення фінансових реформ» / Scientific Workshop "Theory and Practice of Financial Reforms"	3	екзамен / exam
ВБ2.7	Ризики в системі державних фінансів / Risks in the System of Public Finances	3	екзамен / exam
ВБ2.8	Сучасні тенденції розвитку небанківських фінансових установ / Modern Trends of Non-Bank Institutions Development	3	екзамен / exam
ВБ2.9	Аналітичні та чисельні методи досліджень / Analytical and Numerical Methods of Research	3	екзамен / exam
ВБ2.10	Фінтех / FinTech	3	екзамен / exam
	Всього за цикл / Total per cycle	6	
<b>3. Дисципліни за вільним вибором аспіранта**/ Cycle of courses of free choice</b>			
ВБ3.1	Дисципліна вільного вибору аспіранта / Course of free choice	3	залік / current control
Всього за цикл / Total per cycle:		<b>3</b>	
Всього / Total:		<b>12</b>	
РАЗОМ / ALL		<b>43</b>	

\* - from the list of courses that form professional competencies, the student chooses two;

\*\* - the student has the opportunity to choose courses taught at the Lviv Polytechnic National University or other domestic (foreign) HEI (scientific institutions) at all levels.





## **II. Scientific component of the educational-scientific program**

The scientific component of the program involves the graduate student's own research under the guidance of one or two supervisors and the registration of 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 a topical scientific and applied problem in the specialty 072 "Finance, Banking and Insurance", the results of which are characterized by scientific novelty and practical value and published in relevant publications.

The scientific component of the program is made out in the form of the individual plan of scientific work of the postgraduate student and is an integral part of the curriculum of postgraduate study.

An integral part of the scientific component of the educational and scientific program of graduate school is the preparation and publication of scientific articles, presentations at scientific conferences, professional scientific seminars, round tables, and symposia.

### **Subjects of scientific research by specialty 072 "Finance, Banking and Insurance"**

1. Digitalization (digitalization) in the financial system
2. Financial support of united territorial communities
3. Incoming tax flows of local budgets
4. Balancing in the field of pension provision
5. Financial support for the development of production units of industrial enterprises
6. Financial and credit aspects of innovative development of production and economic structures
7. Problems of taxation of non-bank financial institutions
8. Problems of management of capitalization processes in the conditions of innovative development of enterprises
9. Financial support for the innovative development of enterprises
10. Diagnosing tax and budget interaction in modern conditions
11. European experience of tax incentives for innovation
12. Organizational and economic mechanism for managing the rehabilitation of finances of enterprises, institutions and organizations
13. Construction of reorganization strategy in banking institutions
14. Development of the concept of management of rehabilitation of insurance companies.
15. Development of scientific and methodological tools for evaluation and analysis of activities financial market regulators in terms of their rehabilitation
16. Creation of industrial and financial groups in Ukraine - as a tool for the rehabilitation of enterprises, banks and insurance companies
17. Improving methods of crisis management of enterprises, banks and insurance organizations
18. Improving the management of the formation and use of financial resources of entities management
19. Features of the organization of anti-crisis financial management at the enterprises
20. Financial controlling as a financial management system of the enterprise
21. Diagnosis of the state of economic security with the use of multicriteria optimization of financial and economic indicators
22. Formation of a system of revaluation of the strategy of financial management of the enterprise in the conditions of uncertainty
23. Restructuring of the financial system of unstable production and economic structures on the basis of transformation of the mechanism of formation of financial resources

24. Ensuring systematic control of the economic security of enterprises in market conditions with the search for ways to neutralize financial risks
25. Prevention of business conflicts in the process of development and implementation of subsystems anti-crisis enterprise management with elements of optimal modeling financial decisions
26. Management of financial flows in the context of globalization of financial markets
27. Assessment of the provision of economic entities with financial services
28. Current trends in the national insurance market
29. Evaluation of economic efficiency of investment risk insurance
30. Problems of ensuring the financial stability of insurance companies in a crisis
31. Financial support for the strategic development of enterprises in the context of internationalization
32. Financial strategies for the internationalization of enterprises
33. Monetary regulation of economic development
34. Forecasting the financial flows of economic entities
35. Determining the strategic financial position of insurance companies
36. Directions of development of financial intermediation in the conditions of internationalization
37. International capital migration
38. Study of globalization processes in the banking sector
39. Management of financial resources of territorial communities
40. Management of financial development of regions
41. Research of financial independence of territorial communities
42. Value added as an object of analysis of tax reporting of enterprises
43. Forecasting tax revenues to the budget in terms of changes in tax legislation
44. Choosing the optimal taxation system for small businesses
45. Financial regulation of investment activities of enterprises under concession
46. Economic efficiency of investment activities of corporate structures
47. Cost management of enterprises
48. Fiscal decentralization and municipal debt policy
49. Study of transparency of public finances and public confidence in them
50. Development of the financial mechanism of public-private partnership in Ukraine
51. Improving the process of local budget planning
52. Fiscal and debt policy of Ukrainian municipalities
53. Working capital as a source of financial security for businesses
54. The impact of current assets on the efficiency of financial and economic activities of enterprises
55. Features of financial outsourcing management in modern economic conditions
56. Development of outsourcing activities by insurance companies of Ukraine
57. International tax competition in the field of stimulating innovation enterprises.
58. Development of tax incentives for innovative activities of enterprises in the conditions of European integration.
59. Cash flow management of the enterprise and evaluation of its efficiency
60. Formation of a system of control over the processes of raising funds in enterprises
61. The use of budgeting and budget control in the process of raising funds for the enterprise
62. World experience of financial support of industrial restructuring of enterprises
63. Tax incentives for financial support of industrial restructuring or enterprises
64. Financing the stage of scientific and technical preparation of production
65. Financial innovations in society and enterprises; financial principles of innovative development of the enterprise
66. Capitalization processes in terms of innovative development of enterprises
67. Formation of sources of financial resources to cover the costs of motivating entities creative activity.
68. Application of innovative methods in financing motivational programs of subjects creative activity

### **III. Attestation**

Attestation of applicants for higher education with the degree of Doctor of Philosophy is carried out based on the public defense of scientific achievements in the form of a dissertation. Successful completion of his / her individual curriculum by the graduate student is a prerequisite for admission to the defense.

Requirements for the dissertation are set by the Ministry of Education and Science of Ukraine. The volume of the main text of the dissertation should be 4.0 - 5.5 author's sheets. The dissertation must be completed in compliance with all requirements for academic integrity, which are regulated by the Regulations on Academic Integrity at the Lviv Polytechnic National University of September 8, 2017, the Standard of Higher Education SVO LP 03.14. "Regulations for checking for academic plagiarism of students' qualification works, manuscripts of dissertations and monographs, manuscripts of articles submitted for publication in periodicals, at the University" of January 23, 2019, the Procedure for checking at the university and the degrees of Doctor and Candidate of Sciences, as well as the statuses of the publications in which these articles are published.

Requirements for the procedure and special conditions of public defense are determined by the current at the time of the defense of the normative dissertation document of the Cabinet of Ministers of Ukraine.



## Structural and logical scheme of the educational-scientific program in the specialty 072 "Finance, Banking and Insurance"

