

**MINISTRY OF EDUCATION AND SCIENCE  
OF UKRAINE**

**NATIONAL TECHNICAL UNIVERSITY  
“KHARKIV POLYTECHNIC INSTITUTE”**



**APPROVED BY**

Rector of NTU “KhPI”

Ievhen SOKOL

» 05 2024p.

**«FINANCE AND BANKING»  
PROGRAM OF PROFESSIONAL EDUCATION**

Second (Master’s) level of higher education

Major **072 – “Finance, Banking, Insurance and Stock Market”**

Field of knowledge **07 – Management and Administration**

Qualification: Master in **Finance, Banking, Insurance and Stock Market**

**APPROVED BY  
ACADEMIC COUNCIL OF NTU «KhPI»**

Head of Academic Council

Leonid Tovazhnianskyi

Minutes of Council meeting # 4

dated « 26 » 04 2024

Kharkiv 2024

## APPROVAL SHEET FOR

### “Finance and Banking” program of professional education

Level of higher education	Second (Master's)
Field of knowledge	07 Management and Administration
Major	072 «Finance, Banking, Insurance and Stock Market»
Qualification	Master in <b><u>Finance, Banking, Insurance and Stock Market</u></b>


#### APPROVED BY

#### RECOMMENDED BY

OP Workgroup for major «Finance, Banking, Insurance and Stock Market»  
Head of educational program

Methodical Council of NTU “KhPI”  
Deputy head of methodical council

  
Tetiana NAZAROVA  
«22» 04 2024

  
Ruslan MYHUSHCHENKO  
22 «04» 2024

#### AGREED UPON

#### AGREED UPON

Chair of Accounting and Finance


Deputy director of Educational and Research Institute of Economics, Management and International Business (EMIB)

  
Oleksandr MANOYLENKO  
«22» 04 2024

  
Valerii KOBELIEV  
22 «04» 2024

#### AGREED UPON

Student of Finance and Accounting department, BEM-M423

  
Dmytro HORBUNOV  
«22» 04 2024

## **INTRODUCTION (PREFACE)**

The Program corresponds to the Standard of Higher Education of Ukraine at the Master's level in the field of knowledge 07 Management and Administration, major 072 Finance, Banking, Insurance and Stock Market, which was approved and enacted by the order of the Ministry of Education and Science of Ukraine dated 20.06.2019 No. 866.

The program was developed by the OP Workgroup of Finance and Banking at the Educational and Research Institute of Economics, Management and International Business of the National Technical University "Of Kharkiv Polytechnic Institute." The Workgroup consists of the following members:

Head of the program – Tetiana NAZAROVA, PhD in Economics, Associate Professor of Accounting and Finance department

### **EP working group members:**

1. Oleksandr MANOYLENKO – Doctor of Economic Science, Professor, Head of the Department of Accounting and Finance.
2. Olha MASHCHENKO – Doctor of Economic Science, Professor of Accounting and Finance department.
3. Dmytro HORBUNOV – Student of Accounting and Finance department.

The Program reviews are attached.

## CONTENT

1	Profile of the Program for Professional Education	5
2	List of the Program Components and its Structure	11
3	Distribution of Educational Program Content According to the Components Groups and Education Cycles	12
4	Certification of Graduates	12
5	Structural-Logic Scheme of the Educational Program	13
6	Compliance Matrix of Program Competencies with Educational Program Competencies	14

**I. PROFILE OF THE PROGRAM FOR PROFESSIONAL EDUCATION**  
**072 Master's degree -**  
**FINANCE, BANKING, INSURANCE AND STOCK MARKET**

<b>1 – General Information</b>	
Higher education facility and department/institute	National Technical University “Kharkiv Polytechnic Institute,” Educational and Research Institute of Economics, Management and International Business, Accounting and Finance Department
Academic degree and qualification title in Ukrainian	Master, Master of Finance, Banking, Insurance and Stock Market. In Ukrainian:
The official title of the educational program	Finance and Banking
Diploma type and credits in the educational program	Master’s diploma, single, 90 ECTS credits, length of study - 1 year and 4 months
Accreditation	Certificate 9109, valid until July 1, 2029
Cycle/level	NFQ of Ukraine – 7 <sup>th</sup> level, QF EHEA – second cycle, EQF LLL – 7 <sup>th</sup> level
Prerequisites	First (bachelor) level of higher education; Specialist or Masters in other majors
Language	Ukrainian, English
Educational program validity	Until the end of the validity of a significant accreditation certificate Reviewed annually
Description of educational program URL	<a href="https://blogs.kpi.kharkov.ua/v2/quality/dokumenty/arhivni-osvitni-programy/osvitnij-riven-magistr-arhiv/osvitnij-riven-magistr-vstup-2024-2025-navchalnogo-roku/">https://blogs.kpi.kharkov.ua/v2/quality/dokumenty/arhivni-osvitni-programy/osvitnij-riven-magistr-arhiv/osvitnij-riven-magistr-vstup-2024-2025-navchalnogo-roku/</a>
<b>2 – Objective of the Educational Program</b>	
Ensuring the training of highly qualified specialists equipped with fundamental knowledge, technologies, and practical tools for conducting managerial, research, and expert-analytical activities in the financial, banking sectors, and the stock market at both macro and micro levels, considering the demands of a dynamic business environment.	
<b>3 – Characteristics of the educational program</b>	
Subject area (field of study, major)	<p><i>Field of knowledge:</i> Management and Administration</p> <p><i>Major:</i> Finance, Banking, Insurance, and Stock Market</p> <p><i>The object of study:</i> management and administration in the field of finance, banking, insurance, and stock market</p> <p><i>Learning objectives:</i> training of specialists capable of solving complex tasks and problems in the process of professional activity or training in the field of finance, banking, insurance, and stock market, which involves research and/or innovation and is characterized by uncertainty of conditions and requirements.</p> <p><i>The theoretical content of the subject area:</i> scientific concepts, categories, theories, and concepts of financial science that determine the trends and patterns of functioning and development of finance, banking, insurance, and the stock market.</p> <p><i>Methods, techniques, and technologies:</i> general scientific methods of cognition; mathematical, statistical, and qualitative methods of financial analysis; economic and mathematical modeling; information and communication technologies; methods and achievements of technologies of world and domestic financial science and practice.</p> <p><i>Tools and equipment:</i> modern information and analytical systems; standard, special, and industry-specific software products; computers and presentation equipment</p>

Emphasis of educational program	Educational and professional program with hands-on orientation. Professional emphasis: skill set to be applied in business analysis, project management, and other management and research activities using innovative technologies, tools, and methods of financial systems management.
The main focus of the educational program and major	General education, Major 072 "Finance, Banking, Insurance, and stock market." Keywords: financial systems, financial services, banking, insurance, corporate finance, portfolio investments, financial engineering, trading, hedging, financial technology, stock market, cryptocurrency market.
Program features	The multidisciplinary program provides practical training to develop skills in finance, banking, insurance, and the stock market. Mastering up-to-date professional knowledge and skills in Finance, Banking, Insurance, and Stock Market in combination with in-depth study of English. Application of an integrated approach to professional growth with an emphasis on a hands-on approach, a combination of research and practice (the educational process involves research and academic writing: essays, term papers, articles, and reports).

#### **4 – Employability and Continuing Education**

Employability	<p>According to the National Classification of Business Activities (DK 009:2010) and considering the requirements of the labor market, the graduates can work in the following spheres in finance, banking, insurance, and stock market:</p> <ul style="list-style-type: none"> <li>K 64. Financial services, except insurance and pensions</li> <li style="padding-left: 20px;">K 64.1 Financial intermediary</li> <li style="padding-left: 40px;">K 64.11 Central bank</li> <li style="padding-left: 40px;">K 64.19 Other types of financial intermediary</li> <li style="padding-left: 20px;">K 64.9 Other financial services, except insurance and pensions</li> <li style="padding-left: 40px;">K 64.91 Financial leasing</li> <li style="padding-left: 40px;">K 64.92 Other types of lending</li> <li style="padding-left: 40px;">K 64.99 Other financial services (except insurance and pensions), etc.</li> <li>K 65 Insurance, reinsurance, and non-state pensions, except for compulsory social insurance</li> <li style="padding-left: 20px;">K 65.1 Insurance</li> <li style="padding-left: 40px;">K 65.11 Life insurance</li> <li style="padding-left: 40px;">K 65.12 Other types of insurance, except life insurance</li> <li style="padding-left: 20px;">K 65.2 Reinsurance</li> <li style="padding-left: 20px;">K 65.3 Non-governmental pensions</li> <li>K 66 Auxiliary activities in the field of financial services and insurance</li> <li style="padding-left: 20px;">K 66.1 Auxiliary activities in the field of financial services, except insurance and pensions</li> <li style="padding-left: 40px;">K 66.121 Financial markets management</li> <li style="padding-left: 40px;">K 66.12 Mediation of contracts for securities or commodities</li> <li style="padding-left: 40px;">K 66.19 Other auxiliary activities in the field of financial services, except insurance and pensions</li> <li style="padding-left: 20px;">K 66.2 Auxiliary activities in the field of insurance and pensions</li> <li style="padding-left: 40px;">K 66.21 Risk and damage assessment</li> <li style="padding-left: 40px;">K 66.22 Activities of insurance agents and brokers</li> <li style="padding-left: 40px;">K 66.29 Other auxiliary activities in the field of insurance and pensions</li> <li style="padding-left: 20px;">K 66.3 Investment fund management</li> <li>O 84.3 Activities in the field of compulsory social insurance</li> </ul>
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	<p>According to the Classification of Professions (DK 003:2010), a specialist in Finance, Banking, Insurance, and Stock Market may hold the following positions:</p> <p>12 Head of enterprises, institutions, and organizations  1231 Head of finance, accounting, economic, legal, and administrative departments and other  13 Managers of small enterprises without board  146 Financial activities managers  1461 Managers – financial intermediaries  1462 Financial leasing managers  1463 Loan managers  1465 Life and savings insurance managers  1466 Pension insurance managers  1467 Auxiliary activities in the field of finance managers  1468 Auxiliary activities in the field of insurance managers  1469 Financial intermediation managers  2413 Securities experts  2413.2 Foreign exchange professionals  2414 Professionals in the field of financial and economic security of enterprises, institutions, and organizations  2414.2 Professionals in the field of financial and economic security  341 Specialists in the field of finance and trade  3411 Dealers (stock exchange traders) and brokers (intermediaries) in collateral and financial transactions  3412 Insurance agents  3419 Other specialists in the field of finance and trade  342 Commercial service agents and trade brokers  A graduate may hold other positions by job titles characterized by unique professional competencies.</p>
Continuing Education	Opportunities for continuing education at the third (educational and research) level of higher education, professional development, and additional postgraduate education are available.
<b>5 – Teaching and assessment</b>	
Teaching and learning	<p>Student-centered learning is conducted through lectures, seminars, practical classes, consultations, independent studies, and the completion of course projects based on textbooks, manuals, periodical scientific journals, and Internet use.</p> <p>It is based on the principles of student-centeredness, implemented through research-based learning, and fosters an individualized approach to self-organization for master's students. This is achieved by combining lectures and practical classes (guided by professors and associate professors of the department) with independent work (including the use of distance learning technologies) and self-study (guided by academic advisors). This approach supports the step-by-step preparation of a master's thesis, completion of pre-graduation internships, and more.</p>
Assessment	<p>Higher education students' academic performance is assessed through ongoing and final evaluations and state certification.</p> <p>A rating-based grading system is applied. Ongoing and final knowledge assessments include oral questioning, quizzes, individual assignments, tests, credits, and exams (both oral and written). Additionally, assessments involve presentations, project work, defense of practice reports, and the public defense of the qualification thesis.</p>
<b>6 – Program Competencies</b>	

Integral competencies	The ability to solve complex tasks and problems in professional activities or in studying finance, banking, insurance, and the stock market, which involves research and innovation, is characterized by the uncertainty of conditions and requirements.
General competencies	GC 1. Ability to think abstractly, analyze, and synthesize. GC 2. Ability to communicate in a foreign language. GC 3. Ability to conduct sound research. GC 4. Ability to identify, state, and solve problems. GC 5. Ability to make informed decisions. GC 6. Interpersonal interaction skills. GC 7. Ability to motivate people and move towards a common goal. GC 8. Ability to work in an international context. GC 9. Ability to act based on ethical considerations (motives).
Special (professional) competencies (defined within the standard of higher education for the major)	PC 1. Ability to use the fundamental laws of development of finance, banking, and insurance in combination with research and management tools for professional and academic activities. PC 2. Ability to use theoretical and methodological tools to assess and model financial activities. PC 3. Ability to apply management skills in finance, banking, and insurance. PC 4. Ability to evaluate the effectiveness of academic, analytical, and methodological tools to justify finance, banking, and insurance management decisions. PC 5. Ability to assess the limits of their professional competence and improve their professional skills. PC 6. Ability to apply interdisciplinary approaches to solving complex problems in finance, banking, and insurance. PC 7. The ability to search, use, and interpret information is necessary for solving professional and academic problems in finance, banking, and insurance. PC 8. Ability to apply innovative approaches in finance, banking, and insurance. PC 9. Ability to develop technical specifications for the design of information systems in finance, banking, and insurance.
<b>7 – Program learning outcomes</b>	
Program results of studies in the specialty (determined by the standard of higher education of the specialty)	LO01. To apply fundamental laws of finance, banking, and insurance development in combination with research and management tools for professional and academic activities. LO02. To be aware of the latest achievements, concepts, and academic methodologies in finance, banking, and insurance. LO03. To adapt and modify existing academic approaches and methods to specific situations that occur during work. LO04. To search, process, systematize, and analyze information necessary for solving professional and academic problems in finance, banking, and insurance. LO05. Communicate fluently in a foreign language on professional and academic issues and present and discuss research results. LO06. To present research results in an accessible and reasoned manner orally and in writing, to participate in professional discussions. LO07. To solve ethical dilemmas based on the law, ethical principles, and universal values LO08. To apply and manage innovative approaches in finance, banking, and insurance. LO09. To apply management skills in finance, banking, and insurance.

	<p>LO10. To identify and model the financial activities of business entities.</p> <p>LO11. To apply in-depth knowledge in financial, banking, and insurance management decision-making.</p> <p>LO12. To justify the choice of management decision options in finance, banking, and insurance and evaluate their effectiveness, considering the goals, existing constraints, and legal and ethical aspects.</p> <p>LO13. To assess the degree of task complexity at the planning and results processing stages.</p>
<b>8 – Resource support for program implementation</b>	
Personnel	Meets the staffing requirements for ensuring the implementation of educational activities in the field of higher education by the current legislation of Ukraine (Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Licensing Conditions for the Educational Activities of Educational Institutions" of December 30, 2015, No. 1187 (as amended by the Resolution of CM No. 180, No. 365 dated 24.03.2021))
Equipment	Meets the technological requirements for technical support of educational activities in the field of higher education by the current legislation of Ukraine (Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Licensing Conditions for the Educational Activities of Educational Institutions" of December 30, 2015 No. 1187 (as amended by the Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Licensing Conditions for the Conduct of Educational Activities of Educational Institutions"). NO. 347 dated 10.05.2018, No. 180 dated 03.03.2020, No. 365 dated 24.03.2021)
Information sources and learning materials	Meets the informational requirements for educational, methodological, and information support of educational activities in the field of higher education by the current legislation of Ukraine (Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Licensing Conditions for the Educational Activities of Educational Institutions" of December 30, 2015 No. 1187 (as amended by the Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Licensing Conditions for the Educational Activities of Educational Institutions"). No. 347 dated 10.05.2018, No. 180 dated 03.03.2020, No. 365 dated 24.03.2021)
<b>9 – Academic Mobility</b>	
National credits mobility	Based on bilateral agreements between the National Technical University "Kharkiv Polytechnic Institute" and higher education institutions of Ukraine
International credits mobility	Academic mobility based on bilateral agreements between the National Technical University "Kharkiv Polytechnic Institute" and Otto-von-Guericke University of Magdeburg (Germany), University of Wroclaw (Poland), University of Miskolc (Hungary), Sapienza University (Rome, Italy).
Foreign students learning	This is in accordance with the requirements of current legislation, provided that the prior educational level is recognized. Provides the possibility of teaching foreign citizens in English

## 2. List of the Program Components and its Structure

Code	Educational program components	Number of credits	Final examination form
1	2	3	4
<b>Mandatory components of educational program</b>			
<i>1.1. General education</i>			
GT1	Fundamentals of Academic Research	4	Differentiated grading
GT2	Social Responsibility of Business and Social Analysis for Business	3	Differentiated grading
<i>1.2. Special (professional) education</i>			
PT1	Financial Management	6	Exam
PT2	Insurance Management	5	Exam
PT3	Tax Management	5	Exam
PT4	Management Information Systems in Finance and Accounting	5	Exam
PT5	International Financial Reporting Standards	5	Exam
PT6	Banking Management	6	Exam
PT7	Financial Technologies (FinTech)	5	Exam
PP	Practice	11	Differentiated grading
	Attestation	11	Exam
<b>Total credits of mandatory components:</b>		<b>66</b>	
<b>Elective components of educational program</b>			
<i>Elective educational components of special (professional) training</i>			
ECPT 1	Educational components of free choice of professional training	4	Differentiated grading
ECPT 2	Educational components of free choice of professional training	4	Differentiated grading
ECPT 3	Educational components of free choice of professional training	4	Differentiated grading
ECPT 4	Educational components of free choice of professional training	4	Differentiated grading
<i>Elective educational components of general training</i>			
ECGT 1	Educational components of free choice of general training	4	Differentiated grading
ECGT 2	Educational components of free choice of general training	4	Differentiated grading
<b>Total credits of electives components:</b>		<b>24</b>	
<b>TOTAL CREDITS PER EDUCATIONAL PROGRAM:</b>		<b>90</b>	

### 3. Distribution of Educational Program Content According to the Components Groups and Education Cycles

#	Education cycle	The volume of the educational load of the student of higher education (credits / %)		
		Mandatory components of educational and professional program	Selective components of the educational and professional program	Total for the entire period of study
1	2	3	4	5
1	General education cycle	<b>7 / 8</b>	-	<b>7 / 8</b>
2	Special (professional) education cycle	<b>59 / 66</b>	-	<b>59 / 66</b>
3	Electives	-	<b>24 / 26</b>	<b>24 / 26</b>
Total credits per program		<b>66 / 74</b>	<b>24 / 26</b>	<b>90 / 100,0</b>

### 4. THE FORM OF CERTIFICATION FOR HIGHER EDUCATION APPLICANTS

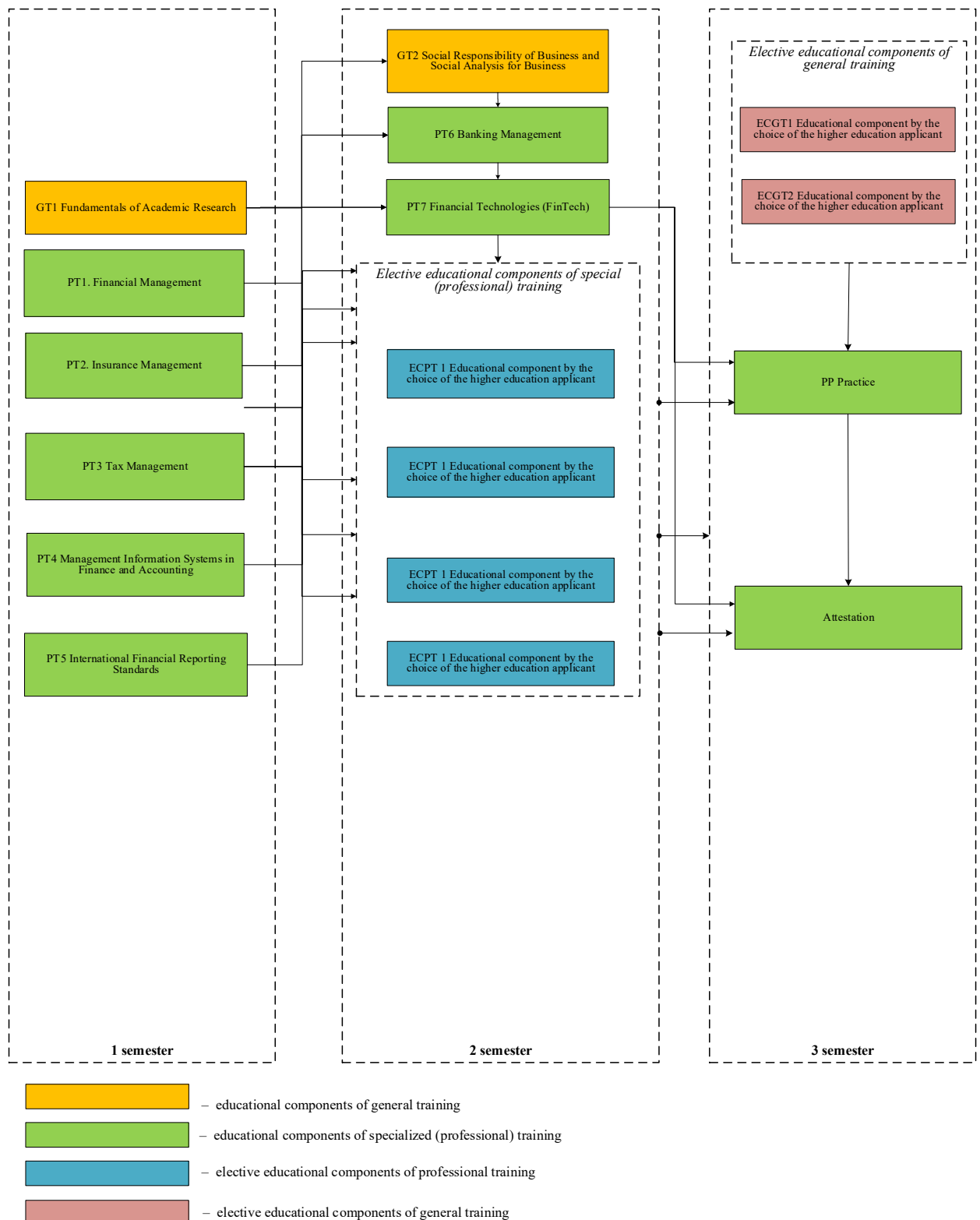
The certification of the educational program graduates, major 072 "Finance and Banking, Insurance and Stock Market" is carried out in the form of a public defense of thesis (with mandatory plagiarism check) and is completed with the issuance of a document in the established form certifying that the holder received master's degree with the following qualification: Master of Finance, Banking, Insurance, and Stock Market.

Attestation is carried out openly and publicly.

A qualification thesis must not contain plagiarism, fabrication, or falsification.

The qualification thesis must be published on the higher education institution's website or its structural unit or in the repository of the higher education institution.

## 5. STRUCTURAL AND LOGICAL SCHEME OF THE EDUCATIONAL PROGRAM



## 6. MATRIX OF CORRESPONDENCE BETWEEN DEFINED LEARNING OUTCOMES, COMPETENCIES, AND EDUCATIONAL COMPONENTS

Learning outcomes	Competencies																
	Integral competence																
	General									Special							
	GC01	GC02	GC03	GC04	GC05	GC06	GC07	GC08	GC09	PC01	PC02	PC03	PC04	PC05	PC06	PC07	PC08
LO01	PT1, PT2, PT3, PT6, PP									PT1, PT2, PT3, PT6, PP							
LO02			PT1, PT2, PT3, PT6, PT7, PP							PT1, PT2, PT3, PT6, PT7, PP	PT1, PT2, PT3, PT6, PT7, PP						
LO03	GT1, PT1, PT4, PT3, PT7, PP										GT1, PT1, PT4, PT3, PT7, PP		GT1, PT1, PT4, PT3, PT7, PP		GT1, PT1, PT4, PT3, PT7, PP		
LO04			GT1, PT1, PT2, PT3, PT4, PT5, PT6, PP													GT1, PT1, PT2, PT3, PT4, PT5, PT6, PP	GT1, PT1, PT2, PT3, PT4, PT5, PT6, PP
LO05		GT2, PT5				GT2, PT5		GT2, PT5						GT2, PT5			
LO06			GT1, PT5,			GT1, PT5,											
LO07								GT2				GT2					
LO08				PT1, PT4, PT7									PT1, PT4, PT7			PT1, PT4, PT7	PT1, PT4, PT7
LO09						PT1, PT2, PT3, PT4, PT5, PT6	PT1, PT2, PT3, PT4, PT5, PT6					PT1, PT2, PT3, PT4, PT5, PT6		PT1, PT2, PT3, PT4, PT5, PT6			PT1, PT2, PT3, PT4, PT5, PT6
LO10	PT1										PT1			PT1	PT1		
LO11					PT1, PT2, PT3, PT6, PP							PT1, PT2, PT3, PT6, PP	PT1, PT2, PT3, PT6, PP	PT1, PT2, PT3, PT6, PP			
LO12				GT2, PT1, PT2, PT3, PT5, PT6	GT2, PT1, PT2, PT3, PT5, PT6						GT2, PT1, PT2, PT3, PT5, PT6	GT2, PT1, PT2, PT3, PT5, PT6					
LO13						PT1, PT2, PT3, PT5, PT6			PT1, PT2, PT3, PT5, PT6					PT1, PT2, PT3, PT5, PT6			