

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE**

**NATIONAL TECHNICAL UNIVERSITY**

**"Kharkiv Polytechnic Institute"**

**Educational and Research Institute of Economics, Management and International Business**

**APPROVED**

**Vice-rector**

\_\_\_\_\_ **Ruslan MYHUSCHENKO**

"\_\_" \_\_\_\_\_ 20\_\_.

**PROGRAMS**

for entrance examinations for a degree

for admission to study for the qualification level "master"

for bids:

**Finance and Banking**

**International Finance**

Director of the Institute

\_\_\_\_\_ **Olexander MANOYLENKO**

Kharkiv 20\_\_

## **Finance and Banking**

### **International Finance**

The purpose of professional entrance examinations is to determine the level of preparedness of applicants who want to study at the National Technical University 'Kharkiv Polytechnic Institute "072 degree" Finance, banking and insurance, "educational programs" Finance and Banking "and" International Finance ".

For successful mastering of educational and professional master's program applicants must have the ability to acquire knowledge and skills about cycles disciplines of social and humanitarian, fundamental, natural sciences, general, vocational and practical training.

The program of professional entrance tests based on educational qualification Bachelor program and reflects both requirements for prospective students identified in higher education Master level.

In preparation for the trial to draw attention to the fact that an applicant must:

*know*: basic theory of finance, finance, banking and financial markets;

*be able*: make better informed decisions about the use of finance to implement economic policies of various entities (including banks) both within the national economy and international level, and so on.

Conduct professional entrance examinations determined by the Regulations on the selection committee NTU "KPI" and Regulations of the substantive examination and professional certification commission for the entrance examinations.

#### Program Content

##### **1. Finance**

The objective prerequisites of finance. Finance as an economic category. Specific symptoms finance their social purpose. The need for finance in terms of commodity economy. Finance functions. Fung Distributionktsiya its contents. Objects and subjects of distribution and redistribution pitchtoast the social product. The financial informamation and its role in the control function. Areas of Finance: finance national, international, finance companies and organizations. The concept of the financial system. The financial system of Ukraine.

Impact of Finance on the development of social production. Financial support for the reproductive process. Forms of financial security: public financing, loans, self-financing. Financial mechanism as a set of forms and methods of financial relations.

The constituent elements of the financial mechanism. Financial planning: the nature, methods and objectives. Consolidated financial equilibrium state. Financial control. The essence of financial control its value. Types, forms and methods of financial control. The essence and function of taxes. Classification of taxes and their characteristics. Types of taxes. Direct taxes. Indirect taxes.

The tax system of Ukraine. VAT. Excise duty. Duty as a source of revenue. The budget as an economic and legal category. Place and importance in the overall budget financial relations. The essence of the budget deficit and its root causes. The basic concept of a balanced budget. Methods of financing the budget deficit. State debt. Current and capital debt. Manage internal and external debt.

The essence and structure of personal finance. Classification of income and expenditure of households. Classification of financial markets. Money market. Capital markets. The primary and secondary financial markets. Economic prerequisites functioning of the financial market in Ukraine. Types of securities that may be issued and rotate in Ukraine. Main characteristics of the securities.

Subjects and types of foreign trade. The exchange rate convertibility of the currency. Key aspects of the financial system in foreign countries (to choose from: USA, Japan, UK, Germany, France, Scandinavian countries). The structure of the budget and the principles of taxation in the countries of the European Union.

## **2. Finance companies**

The essence of finance companies, their functions and principles of organization receipts enterprises, their structure, economic characteristics and classification. Own and borrowed funds companies. Revenues from sales of products, works and services and its distribution. Gross income. Payroll. Equity and net profit. The economic content of the profits. Distribution of profits. Funds of funds generated from profits. Features of financial relations in enterprises of different ownership and management.

The concept of financial resources entities. Capital company, its nature and composition. Forms of financing of their classification for the source of the capital and the legal status of investors. The relationship between finance companies and form of business organization. Criteria for making decisions about the legal forms of business organization. Features of the financial activities of business entities. Features of the financial activity of enterprises with foreign investments. Financial activities of government and state-owned enterprises.

Formation of the financial capital of the company through various sources. The economic content of domestic sources of financing operating and investment activity. The financial results from operations. Operating profit and methods of its determination. Operating expenses. Operational profit. The gross margin. The threshold of profitability, stock financial strength, strength of operating leverage.

The concept of equity and its components. Features equity. Capital, its economic substance and procedure of formation. Additional capital and sources of its formation. Reserve capital company, its necessity, sources of species. Starting the authorized capital of enterprises of different forms of business organization. Loan capital company, its components and the order of formation. Determining the need for borrowing. Comparative characteristics of the financing of enterprises through equity and debt capital. Conditions of release mechanism, location and maintenance bonds. Leasing finance lease. Method of determining the lease payments.

## **3. Banking System**

The essence of the banking system and the objective economic conditions for its formation. The role and place of the banking system in the economy. Principles of the banking system. Function and mechanism of the banking system. The essence of the central bank and its role in the economy. The main activities and functions of central banks. The central bank as the emission center of the state. The functions of banking regulation and supervision, implementation of monetary policy, currency regulation and control. The central bank as information and statistical and analytical center of the banking system. Operations of the central banks and their general characteristics.

Commercial banks as a key component of the banking system. The essence and purpose of the commercial banks in the current economic space. Basic organization and specific activities of banking institutions. The principles and objectives of commercial banks. The functions of commercial banks in a market economy. Signs classification of commercial banks. Universal and specialized banks. The main activities and types of operations of commercial banks. Overview of banking operations and services.

Structure and characteristics of two-tier banking system of Ukraine. The principles of interaction of elements of the first and second levels of the banking system.

The functions of the banking system of Ukraine and legal bases of operation. Status NBU and its role in the banking system of Ukraine. Tasks and functions of the National Bank of Ukraine. The main activities and operations of the NBU. The issue of money and monetary regulation. The monetary policy of the NBU and instruments for its implementation. Monetary

policy and currency regulation and control. The essence of the commercial bank and its role in the economy of Ukraine. Creation and organization of a commercial bank. Essence, functions and principles of the commercial banks. Types of commercial banks in Ukraine. Types and general characteristics of the operations of domestic banks. Liabilities of commercial banks. Active banking operations. Commissions, brokerage services and commercial banks.

#### **4. Financial markets**

The structure of the financial market and its products. The subjects of the financial market, their classification. Household savings as a source of investments. Factors forming savings. Types of financial market regulation. State regulation, self-regulation. International standards for financial market regulation. International cooperation on financial market regulation. Legal regulation of the financial market in Ukraine. Institutes securities market infrastructure. Financial instruments as assets of financial transactions in the market. The main features of securities, properties, groups of securities market of Ukraine. Features of the calculation of the market value of equity and debt securities. The notion of risk, its content. The level of risk depending on the type of securities. Measuring non-diversified risk. Market yield and yield required securities. Line reliability of the financial market. Calculating yield securities. Fininsovi transactions in financial markets. The essence of the stock exchange, its purpose. Organization of trading securities. Establishment of market exchange rates. Types of exchange transactions. Cash transactions. Operations for the period. Agreement and a premium option. Indices and other indicators that reflect the movement of prices on the organizational and securities markets. Types of derivatives. Futures contracts, their classification. Forward contracts and their features. Options and their features. Swap transactions. Depositary receipts on the stock markets. Money market and bank lending market as integral parts of the financial market. Subjects of money market and bank loans. Line reliability of the financial market. Calculating yield securities. Fininsovi transactions in financial markets. The essence of the stock exchange, its purpose. Organization of trading securities. Establishment of market exchange rates. Types of exchange transactions. Cash transactions. Operations for the period. Agreement and a premium option. Indices and other indicators that reflect the movement of prices on the organizational and securities markets. Types of derivatives. Futures contracts, their classification. Forward contracts and their features. Options and their features. Swap transactions. Depositary receipts on the stock markets. Money market and bank lending market as integral parts of the financial market. Subjects of money market and bank loans. Line reliability of the financial market. Calculating yield securities. Fininsovi transactions in financial markets. The essence of the stock exchange, its purpose. Organization of trading securities. Establishment of market exchange rates. Types of exchange transactions. Cash transactions. Operations for the period. Agreement and a premium option. Indices and other indicators that reflect the movement of prices on the organizational and securities markets. Types of derivatives. Futures contracts, their classification. Forward contracts and their features. Options and their features. Swap transactions. Depositary receipts on the stock markets. Money market and bank lending market as integral parts of the financial market. Subjects of money market and bank loans. Fininsovi transactions in financial markets. The essence of the stock exchange, its purpose. Organization of trading securities. Establishment of market exchange rates. Types of exchange transactions. Cash transactions. Operations for the period. Agreement and a premium option. Indices and other

indicators that reflect the movement of prices on the organizational and securities markets. Types of derivatives. Futures contracts, their classification. Forward contracts and their features. Options and their features. Swap transactions. Depositary receipts on the stock markets. Money market and bank lending market as integral parts of the financial market. Subjects of money market and bank loans. Cash transactions. Operations for the period. Agreement and a premium option. Indices and other indicators that reflect the movement of prices on the organizational and securities markets. Types of derivatives. Futures contracts, their classification. Forward contracts and their features. Options and their features. Swap transactions. Depositary receipts on the stock markets. Money market and bank lending market as integral parts of the financial market. Subjects of money market and bank loans. Cash transactions. Operations for the period. Agreement and a premium option. Indices and other indicators that reflect the movement of prices on the organizational and securities markets. Types of derivatives. Futures contracts, their classification. Forward contracts and their features. Options and their features. Swap transactions. Depositary receipts on the stock markets. Money market and bank lending market as integral parts of the financial market. Subjects of money market and bank loans. Money market and bank lending market as integral parts of the financial market. Subjects of money market and bank loans. Money market and bank lending market as integral parts of the financial market. Subjects of money market and bank loans.

SCOPE entrance test:

### **1. Finance**

1. Finance functions.
2. Areas of Finance: finance national, international, finance companies and organizations.
3. Financial resources both material financial media relations.
4. Impact of Finance on the development of social production.
5. Financial mechanism as a set of forms and methods of financial relations.
6. Financial planning: the nature, methods and objectives.
7. Financial control. The essence of financial control its value.
8. The essence and function of taxes.
9. Classification of taxes and their characteristics.
10. The tax system of Ukraine.
11. Essence, components and principles of organization of local finances.
12. Characteristics purpose funds.
13. The essence of finance companies, their functions and fundamentals of the organization.
14. Cash flow businesses, their composition, of an economic nature joints and classification.
15. Own and borrowed funds companies.
16. Institutional household as an economic unit and financial relations.
17. The essence of the financial market, its role in the mobilization and allocation of resources.
18. Classification of financial markets.
19. Types of securities that may be issued and rotate in Ukraine. Main characteristics of the securities.
20. The concept of international finance. Subjects and types of foreign trade.
21. The exchange rate convertibility of the currency. Currency markets: concept and types.
22. Finance countries with developed market economies.
23. Finance European Union.

## **2. Finance companies**

1. The essence of finance companies, their functions and fundamentals of the organization.
2. Cash flow businesses, their composition, economic characteristics and classification.
3. Own and borrowed funds companies. Gross income.
4. Payroll. Equity and net profit.
5. The economic content of the profits. Distribution of profits.
6. Funds of funds generated from profits.
7. The concept of financial resources entities.
8. Capital company, its nature and composition.
9. Forms of financing of their classification for the source of the capital and the legal status of investors.
10. Criteria for making decisions about the legal forms of business organization.
11. Financial activities of government and state-owned enterprises.
12. Formation of the financial capital of the company through various sources.
13. The economic content of domestic sources of financing operating and investment activity.
14. The financial results from operations. Operating profit and methods of its determination.
15. Operating expenses. Operational profit. The gross margin.
16. The threshold of profitability, stock financial strength, strength of operating leverage.
17. The concept of equity and its components. Features equity.
18. Capital, its economic substance and procedure of formation. Additional capital and sources of its formation. Reserve capital company, its necessity, sources of species.
19. Starting the authorized capital of enterprises of different forms of business organization.
20. Loan capital company, its components and the order of formation.
21. Determining the need for borrowing. Comparative characteristics of the financing of enterprises through equity and debt capital
22. . Conditions of release mechanism, location and maintenance bonds.
23. Leasing finance lease. Method of determining the lease payments.

## **3. Banking System**

1. The essence of the banking system and the objective economic conditions for its formation.
2. Principles of the banking system. Function and mechanism of the banking system.
3. The essence of the central bank and its role in the economy. The main activities and functions of central banks.
4. The central bank as the emission center of the state. Operations of the central banks and their general characteristics.
5. Commercial banks as a key component of the banking system.
6. The essence and purpose of the commercial banks in the current economic space.
7. Basic organization and specific activities of banking institutions. The principles and objectives of commercial banks.
8. The functions of commercial banks in a market economy. Signs classification of commercial banks.

9. Universal and specialized banks. The main activities and types of operations of commercial banks. Overview of banking operations and services.
10. Structure and characteristics of two-tier banking system of Ukraine.
11. The principles of interaction of elements of the first and second levels of the banking system.
12. The functions of the banking system of Ukraine and legal bases of operation.
13. Status NBU and its role in the banking system of Ukraine. Tasks and functions of the National Bank of Ukraine.
14. The main activities and operations of the NBU. The issue of money and monetary regulation. The monetary policy of the NBU and instruments for its implementation.
15. Monetary policy and currency regulation and control.
16. The essence of the commercial bank and its role in the economy of Ukraine.
17. Creation and organization of a commercial bank.
18. Essence, functions and principles of the commercial banks.
19. Types of commercial banks in Ukraine. Types and general characteristics of the operations of domestic banks.
20. Liabilities of commercial banks.
21. Active banking operations.
22. Commissions, brokerage services and commercial banks.

#### **4. Financial markets**

1. The subjects of the financial market, their classification.
2. Household savings as a source of investments.
3. Types of financial market regulation. State regulation, self-regulation.
4. International standards for financial market regulation.
5. International cooperation on financial market regulation.
6. Institutes securities market infrastructure.
7. Financial instruments as assets of financial transactions in the market.
8. The main features of securities, properties, groups of securities market of Ukraine.
9. Features of the calculation of the market value of equity and debt securities.
10. The notion of risk, its content. The level of risk depending on the type of securities.
11. Market yield and yield required securities.
12. Line reliability of the financial market.
13. Calculating yield securities.
14. Fininsovi transactions in financial markets.
15. The essence of the stock exchange, its purpose.
16. Organization of trading securities. Establishment of market exchange rates.
17. Types of exchange transactions. Cash transactions.
18. Operations for the period. Agreement and a premium option.
19. Indices and other indicators that reflect the movement of prices on the organizational and securities markets.
20. Types of derivatives.
21. Futures contracts, their classification.
22. Forward contracts and their features.
23. Options and their features.
24. Depositary receipts on the stock markets.
25. Money market and bank lending market as integral parts of the financial market.
26. Subjects of money market and bank loans.

## RECOMMENDED BOOKS

1. GI Bashnyanin Political Economy: a textbook / GI Bashnyanin, PY Azure, VS Medvedev. - K. : Nick Center, Elga, 2000. - 527 p.
2. Hal'chyns'kyi AS Bases of economic knowledge, teach. guidances. / AS Hal'chyns'kyi, PS Eschenko, Y. Palkin. - K. : High School, 2002. - 544 p.
3. Dzyubyk S. Foundations of Economic Theory / Dzyubyk S., A. Ryvak. - K. : Fundamentals, 2014. - 423 p.
4. Economic theory, political economy: Textbook / Ed. VD Bazilevich. - K. : Knowledge Press, 2004. - 615 p.
5. Fundamentals of Economic Theory: Textbook / Ed. SV Mocherny. - K. : Publishing Center "Academy", 2000. - 304 p.
6. Fundamentals of economic theory: textbook. in 2 Vol. / Ed. Y. Nikolenko. - K. : Lybid, 2003. - 380 p.
7. Finance (general theory): teach. manual / VN Oparin; KNEU. - 2nd ed., Ext. and revised. - Kyiv: Kyiv National Economic University, 2001. - 240 p.
8. Finance [Text] teach. manual / VP Kudryashov. - Kherson: Oldie Plus, 2002. - 351 p.
9. Stetsiv LP Finances: teach. manual / LP Stetsiv, AI Kopylyuk. - K. : Knowledge, 2007. - 236 p.
10. Finance: teach. manual / Ed. VI Ospischeva. - Kyiv: Knowledge, 2006. - 415 p.
11. Finance: Textbook / Under red. Yuriy SI, VN Fedosov - 3rd ed., Revised. and add. - K. : Knowledge, 2012.- 687 pp.
12. Finance [Text] teach. manual / AV Bazyliuk [et al.] Science. Ed. A. Bazyliuk; Nat. Transport University. - Kyiv: Condor 2014.
13. Finance companies: Textbook / Ed .. NA Vlasov; Kharkiv Polytechnic Inst, nat. Sc. Univ. - Kharkov: World Book, 2018. - 437 p.
14. Banking system Ukraine [Text] monograph / V. Kovalenko OG Korenev, Cherkashina KF et al. - Amounts: SHEE "UAB NBU", 2010. - 187 p.
15. The banking system of Ukraine: formation and development in a globalized economic processes [Text]: monograph / [O. B. Dzyublyuk, BP Adamik, Balyant GR et al.] Ed. Dr. Sc. Sciences, prof. Dzyublyuk OV. ; Ternopol. nat. Sc. Univ. - Ternopil: Aston, 2012. -357 p.
16. Providing conditions stable functioning of the banking sector in Ukraine: monograph / AM Kolodizyev, A. Boyko, IA Gubareva and others. ; by the Society. Ed. Kolodizyeva AM - H., ed. KhNUE, 2010. - 312 p.
17. Cold YY banking system, teach. guidances. / YY Cold, A. Rat. - H., ed. KhNUE, 2013. - 316 p.
18. Banking system: manual / [M. J. Krupka, EM Andrushchak, NG Paytra etc. ; Ed. MI Krupka]; Lviv. nat. University of them. Ivan Franko. - Lviv, LNU. Ivan Franko, 2013. - 554 p.
19. Vasyurenko O. Bank supervision: Textbook / AV Vasyurenko, A. Sidorenko. - K. Knowledge, 2011. - 503 p.
20. Kuznetsova SA banking system: the charts and tables: teach. guidances / SA Kuznetsova, TN Bulgarians ZS Pestovska. - Dnipropet-rovsk: Dniepropetrovsk. University of them. Alfred Nobel, 2012. - 319 p.
21. Levandivska OT Banking operation: manual. guidances. /OT Levandivska PE Demeter. - K: Knowledge, 2012. - 463 p.
22. Vasiliev VV Financial Markets: Training. Ref. / V. Vasilyev, AR Vasil'chenko - K. : Center of educational literature, 2008. - 368 p.
23. Martyushev LS Financial Markets: Training. Ref. / LS Martyushev, M. Budnik, NV Sablina - K. : Condor, 2008. - 324 p.
24. S. Maslov Financial Markets: Textbook / SA Maslov, OA opal - K. : Caravel; 2002. - 304 p.
25. Y. Kravchenko securities market: Textbook / Y. Kravchenko. - K., Dakor, CST, 2008. - 664 p.
26. Sheludko V. Financial Markets: Textbook / VN Sheludko; Kyiv. nat. University of them. Shevchenko. - 3rd ed., Erased. - K: Knowledge, 2015. - 535 p.

**EVALUATION CRITERIA ENTRANCE EXAMINATIONS STRUCTURE ASSESSMENT  
AND EVALUATION PROCEDURES APPLICANTS READINESS**

In assessing knowledge as a basis to be complete and correct performance problems. Overall defined as the weighted average estimate of answers to all questions.

Rating score, scores	Evaluation of ECTS and its definition	National assessment	evaluation criteria	
			positive	negative
1	2	3	4	5
90-100	AND	Perfectly	<ul style="list-style-type: none"> <li>- thorough knowledge of educational material contained in the literature;</li> <li>- the ability to analyze the phenomena studied in their relationship and development;</li> <li>- the ability to carry out theoretical calculations;</li> <li>- Answers to questions are clear, concise, logically consistent;</li> <li>- the ability to solve complex practical problems</li> </ul>	answers to questions may contain minor inaccuracies
82-89	IN	Fine	<ul style="list-style-type: none"> <li>- deep knowledge in the amount of mandatory material;</li> <li>- the ability to give reasoned answers to the questions and carry out theoretical calculations;</li> <li>- the ability to solve complex practical problems</li> </ul>	answers to questions contain certain inaccuracies
75-81	WITH	Fine	<ul style="list-style-type: none"> <li>- strong knowledge of the material under study and its practical application;</li> <li>- the ability to give reasoned answers to the questions and carry out theoretical calculations;</li> <li>- the ability to solve practical problems</li> </ul>	- inability to use theoretical knowledge to solve complex practical problems
64-74	D	Satisfactorily	<ul style="list-style-type: none"> <li>- basic knowledge of the fundamental provisions of the material being studied, and their practical application;</li> <li>- the ability to solve simple practical problems</li> </ul>	<ul style="list-style-type: none"> <li>- inability to give a reasoned answer to the question;</li> <li>- the inability to analyze the material and perform calculations;</li> <li>- inability to solve complex practical problems</li> </ul>
60-63	IS	Satisfactorily	<ul style="list-style-type: none"> <li>- basic knowledge of the fundamental provisions of material</li> <li>- the ability to solve simple practical problems</li> </ul>	<ul style="list-style-type: none"> <li>- ignorance of some (unimportant) issues of material;</li> <li>- inability to consistently and convincingly express an opinion;</li> <li>- inability to apply theoretical principles in solving practical problems</li> </ul>
35-59	FX	Unsatisfactorily	-	<ul style="list-style-type: none"> <li>- ignorance of the basic fundamental provisions of educational material;</li> <li>- significant errors in the answers to questions;</li> <li>- inability to solve simple practical problems</li> </ul>
1-34 (On the Commission)	F	Unsatisfactorily	-	<ul style="list-style-type: none"> <li>- a complete lack of knowledge large part of the training material;</li> <li>- significant errors in the answers to questions;</li> <li>- ignorance of the basic fundamental provisions;</li> <li>- the inability to focus on solving simple practical problems</li> </ul>

*Putting a positive assessment of professional entrance tests for admission to study for a Master's Degree in scale 100-200 by Annex \_\_ admission to NTU "KPI" in 20\_\_ year.*

Approved at a meeting of the Academic Council of Education and Research Institute of Economics, Management and International Business

Protocol № \_\_ of \_\_\_\_\_ 20\_\_ p.

Chairman of the Academic Board

Olexander MANOYLENKO

Head professional certification commission

Serhii MEKHOVYCH