



Syllabus of the discipline «Statistics»

Level of higher education Ступінь вищої освіти - Bachelor
Specialty 076 “Entrepreneurships, Trade and Exchange Activity”

Economic Faculty

Education programme “Entrepreneurships, Trade and Exchange Activity”

Year of study 1-2, семестр 2,3

Form of education full-time (full-time, extramural)

Number of credits ECTS 5

Language of study english (Ukrainian, English, German)

Lector

Contact information of the lector (e-mail)

Page of the course in the eLearn

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<https://elearn.nubip.edu.ua/course/view.php?id=1722>

Discription of the discipline

Today Ukraine has a vector of association to the European world space and the creation of a European higher education. Educational activities of each institution of higher education should be aimed at training professionals that could quickly adapt to real conditions and put into practice the theoretical knowledge's acquired during the training.

In the system of economic education statistics is as a place of study subjects due to its role in the research and practice community.

Statistics as social science studies the quantitative aspect of mass public phenomenon's in close connection with their qualitative side, investigates the quantitative expression patterns of social development in specific circumstances of time and place.

Studied the subject “Statistics” will allow students of economic specialties to learn the basic techniques and methods of evaluation of mass social-economical phenomena's and processes taking place in the society and in Ukraine in particular, to explore domestic and international experience in the implementation of statistical surveys.

In the process of studying students has competencies: integral competence (IK): the ability to solve complex specialized tasks and problems in the spheres of business, trade, and exchange activities or in the learning process, which involves the application of theories

and methods of organization and functioning of business, trade, and exchange structures and is characterized by the complexity and uncertainty of conditions.

general competences (3K):

3K 1. Ability to abstract thinking, analysis and synthesis.

3K 2. Ability to apply acquired knowledge in practical situations.

3K 4. Ability to communicate in a foreign language.

3K 5. Skills in using information and communication technologies.

3K 6. Ability to search, process and analyze information from various sources.

3K 7. Ability to work in a team.

professional (special) competences (ΦK):

ΦK 2. The ability to choose and use appropriate methods and tools for justifying decisions regarding the creation and functioning of business, trade and stock exchange structures.

ΦK 4. Ability to apply innovative approaches in the activities of business, trade and stock exchange structures.

ΦK 7. The ability to define and perform professional tasks related to the organization of business, trade and exchange structures.

ΦK 10. Ability to business planning, assessment of the market situation and the results of activities in the field of entrepreneurship, trade and exchange practice, taking into account risks.

ΦK 12. Ability to perform analytical and trading activities on international and domestic commodity exchanges.

Program learning outcomes (ΠPH) OP:

ΠPH 2. Apply acquired knowledge to identify, set and solve problems in various practical situations in business, trade and stock market activities.

ΠPH 3. To have written and oral professional communication skills in national and foreign languages.

ΠPH 4. To use modern computer and telecommunication technologies for the exchange and distribution of professionally oriented information in the field of entrepreneurship, trade and stock market activity.

ΠPH 5. To organize the search, independent selection, high-quality processing of information from various sources for the formation of data banks in the field of entrepreneurship, trade and exchange activity.

ΠPH 6. Be able to work in a team, have interpersonal skills that allow you to achieve professional goals.

ΠPH 12. To have methods and tools for justifying management decisions regarding the creation and functioning of business, trade and exchange structures.

IPPH 19. Apply knowledge and skills to ensure the effective organization of foreign economic activity of business, trade and exchange structures, taking into account the market situation and current legal norms.

STRUCTURE OF THE COURSE

Theme	Hours (lectures/labs, practical classes, seminars)	Results of Education	Tasks	Evaluation
2 semester				
Modul 1				
Topic 1. Methodological principles of statistics	2/2	To know object of Statistics, its main category. Statistical methodology. To be able doing statistical observation as method of information providing. Program-methodology questions of statistical observation. Organize questions of statistical observation. Forms, kinds and methods of observation. To know the essence of statistical bunching, classification and grouping. Principles of forming groups. Statistical tables. Essence and kind of statistical indexes. Absolute statistical value. Relative values. Average indexes. System of statistical indexes.	Delivery of laboratory or practical work. Writing tests, essays. Doing independent work (including in elearn system) Problem solving, etc.	Execution and delivery of practical works - credited. Module: descriptive part 100; test part 30 * 0.1; Independent work - according to the evaluation journal in eLearn
Topic 2. Statistical observation	2/2			
Topic 3. Compilation and grouping of statistics. Statistical tables	4/4			
Topic 4. Generalizing statistical indicators	4/4			
Topic 5. Analysis of distribution series	4/4			
Topic 6. Analysis of concentration, differentiation and similarity of distributions	2/2			
Topic 7. Selective method	2/4			
Module 2				
Theme 8. Statistical methods for measuring correlation	4/4	To know kinds of interconnections. Regression analysis. Value of tightness and verification of the essence of correlation connection. Rang correlation. To know Characteristics of main tendency of development. Value of fluctuation and dynamic constancy. To be able doing correlation of dynamic row.	Delivery of laboratory or practical work. Writing tests, essays. Doing independent work (including in	Execution and delivery of practical works - credited. Module: descriptive part 100;
Theme 9. Analysis of the intensity dynamics	4/4			
Theme 10. Analysis of trends and fluctuations	2/4			
Theme 11. Index method	4/4			
Theme 12. Statistical Graphics	2/2			

		To know essence and functions of indexes. Methodological bases of bunching indexes structure. Aggregate form of indexes and average weighted indexes. Interconnection of indexes. Average indexes. To know role and meaning of graphical method. Main elements of graphics. Rules of structure of statistical graphs. Kinds of statistical graphs.	elearn system) Problem solving, etc.	test part 30 * 0.1; Independent work - according to the evaluation journal in eLearn
Total for the Semester 2				70
Test				30
Semester 3				
Module 3				
Topic 13. General principles and objectives of socio-economic statistics	2/2	Understand the importance of socio-economic statistics. Know the types and functions of indicators used to characterize socio-economic phenomena. Know the basic administrative registers used to classify the economic activities of enterprises. Know the components of national wealth, be able to determine the amount and composition of national wealth, analyze its dynamics and use. Know macroeconomic indicators in the system of national accounts. Have methods for calculating gross national income and its analysis. Know the main indicators that study the number, quality, and structure of the population and labor resources. Be able to use methods of forecasting population, labor and labor. Know the system of indicators that characterize the efficiency of social production and indicators of use of production resources and production costs. Be able to analyze the factors of change in profits and profitability.	Delivery of laboratory or practical work. Writing tests, essays. Doing independent work (including in elearn system) Problem solving, etc.	Execution and delivery of practical works - credited. Module: descriptive part 100; test part 30 * 0.1; Independent work - according to the evaluation journal in eLearn
Topic 14. Statistics of national wealth and means of production.	4/4			
Topic 15. Statistics of gross domestic product and gross national income	2/2			
Topic 16. Statistics of population, labor and labor	2/2			
Topic 17. Statistics of efficiency of social production	2/2			
Topic 18. Statistics of the monetary sector of the economy	2/2			
Topic 19. Securities market statistics	2/2			

Module 4				
Topic 20 Statistics of market conditions	2/2	<p>Know the system of market statistics indicators. Understand the specifics of the information base of market statistics. Have methods for forecasting demand. Be able to assess commercial (market) risk.</p> <p>Know the statistical methods of marketing research, understand the role of statistics in market segmentation, portfolio analysis and in determining the effectiveness of advertising.</p> <p>Understand the role and functions of market prices. Have the basic methods of studying the price ratio and know the indicators of studying price variation. Know the main indicators of inflation.</p> <p>Be able to analyze the state and changes in the commodity structure of trade. Know the system of indicators of turnover and turnover statistics.</p> <p>Know the system of indicators of stock exchange statistics, have methods for calculating commodity exchange indices. Know futures and stock indices. Be able to analyze the stock market</p> <p>Know the system of indicators of market infrastructure statistics, be able to assess and analyze the number, structure and dynamics of market enterprises.</p>	<p>Delivery of laboratory or practical work. Writing tests, essays.</p> <p>Doing independent work (including in elearn system)</p> <p>Problem solving, etc.</p>	<p>Execution and delivery of practical works - credited.</p> <p>Module: descriptive part 100; test part 30 * 0.1; Independent work - according to the evaluation journal in eLearn</p>
Topic 21. Statistical methods of marketing research	2/2			
Topic 22. Price statistics	4/4			
Topic 23. Traffic statistics	2/2			
Topic 24 Commodity exchange statistics.	2/2			
Topic 25 Statistics of market infrastructure	2/2			
Total for the Semester 3				70
Exam				30
Total for the Course				100

POLICY OF EVALUATION

<i>Deadline and recompilation policy:</i>	Works that are submitted after deadlines without good reason are evaluated at a lower grade. Rearrangement of modules takes place with the permission of the lecturer if there are good reasons (for example, hospital).
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<i>Academic integrity policy:</i>	Write-offs during tests and exams are prohibited (including the use of mobile devices). Course papers, abstracts must have correct text references to the literature used
<i>Policy about attendance</i>	Attendance is mandatory. For objective reasons (for example, illness, international internship) training can take place individually (in online form in consultation with the dean of the faculty)

GRADING SCALE OF STUDENTS

Rating of the applicant of higher education, points	The assessment on national scale for the results of examinations and tests	
	exams	tests
90-100	excellent	accepted
74-89	good	
60-73	satisfactorily	
0-59	not satisfactorily	not accepted

RECOMMENDED SOURCES OF INFORMATION

1. Горкавий В.К. Статистика: підручник. Третє вид., переробл. і доповн. К.:Алерта, 2020. 644 с.
2. Городянська Л.В., Сизов А.І. Статистика для економістів: навчальний посібник. К.: Київ. нац. ун-т ім. Т.Шевченка, 2019. 350 с.
3. Козирєва О.В., Федорова В.О. Статистика: навчальний посібник. Х.: Видавництво Іванченка І.С., 2021. 187 с.
4. Кушнір Н.Б. Статистика: навчальний посібник. К.: Центр учбової літератури, 2019. 208 с.
5. Мармоза А.Т. Теорія статистики: підручник. К.: Центр учбової літератури, 2019. 592 с.
6. Педченко Г. П. Статистика: навчальний посібник. Мелітополь: Колор Принт, 2018. 266 с.
7. Статистика: основи теорії та практикум: навчальний посібник / Григорків В.С., Вінничук О.Ю., Григорків М.В., Маханець Л.Л. Чернівці : Чернівець. нац. унт, 2022. 304 с.
8. Freund J., Perles B. Modern Elementary Statistics // Pearson New International Edition PDF eBook 12th Edition, 2013.
9. Quirk T. Excel 2010 for Business Statistics. A Guide to Solving Practical. Business Problems, School of Business and Technology Webster University. 2018. 264 p.
10. Shao J. Mathematical Statistics: Exercises and Solution, Springer, 2016, 385 p. Basic Statics. URL: <https://www.adb.org/publications/basic-statistics-2017>