



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

Voliak L.R.

voliaklr@nubip.edu.ua

<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 general competencies: ability to abstract thinking, analysis and synthesis, ability to apply the acquired knowledge in practical situations, skills in the use of information and communication technologies, ability to search, process and analyze information from various sources.

Professional (special) competencies: ability to choose and use appropriate methods, tools to justify decisions on the establishment, operation of business, trade and exchange structures, ability to do business planning, assess market conditions and performance in the field of entrepreneurship, trade and exchange practices, taking into account risks.

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 | Delivery of laboratory or practical work. Writing tests, essays. Doing independent work (including in elearn | Execution and delivery of practical works - credited. Module: |
| Theme 9. Analysis of the intensity dynamics | 4/4 | | | |
| Theme 10. Analysis of trends and fluctuations | 2/4 | | | |

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| Theme 11. Index method | 4/4 | development. Value of fluctuation and dynamic constancy. To be able doing correlation of dynamic row. 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. | system) Problem solving, etc. | descriptive part 100; test part 30 * 0.1; Independent work - according to the evaluation journal in eLearn |
| Theme 12. Statistical Graphics | 2/2 | | | |
| 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 | 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 | | | |

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|---|-----|--|---|---|
| | | 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. | | |
| 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. 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. 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. Doing independent work (including in elearn system) Problem solving, etc.</p> | <p>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</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 | | | |

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| Total for the Semester 3 | | | | 70 |
| Exam | | | | 30 |
| Total for the Course | | | | 100 |

POLICY OF EVALUATION

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| <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). |
| <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 |