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Course lecturer  
Lecturer contact information (e-mail)

Course page in eLearn

## SYLLABUS OF DISCIPLINE

«\_Statistics\_»

Degree of higher education - Bachelor

Specialty 071 Accounting and Taxation

Educational program "Accounting and Auditing"

Year of study 2021 -2022 \_\_, semester 2 - 3

Form of study \_\_\_\_\_ full-time \_\_\_\_\_ (full-time, external)

Number of ECTS credits 7 \_\_\_\_\_

Language of teaching English \_\_ (Ukrainian, English, German)

PhD, Associate Professor Olena Volodymyrivna Bohdaniuk

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<https://elearn.nubip.edu.ua/course/view.php?id=2165>

## DESCRIPTION OF THE COURSE

(up to 1000 printed characters)

Statistics is the science and art of making sense of both quantitative and qualitative data. Statistical thinking now dominates almost every field in science, including social sciences such as business, economics, management, and marketing. It is virtually impossible to avoid data analysis if we wish to monitor and improve the quality of products and processes within a business organization. This means that economists and managers have to deal almost daily with data gathering, management, and analysis.

The subject of statistics may be presented at various levels of mathematical difficulty, and it may be directed toward applications in various fields of inquiry. In this sequel we will keep the mathematical background to a minimal. Statistics is that branch of science which deals with: collection of data, organizing and summarizing the data, analysis of data, and making inferences, or decisions and predictions.

The result of studying the discipline is the acquisition by students of such *General competence*: ability to learn and master modern knowledge; ability to abstract thinking, analysis and synthesis; ability to work autonomously; ability to communicate in a foreign language; skills of using modern information systems and communication technologies; ability to conduct research on the appropriate levels.

*Special (professional) competence*: ability to study development trends economy through the tools of macro- and microeconomic analysis, make generalizations about assessment of the manifestation of individual phenomena that are inherent in modern processes in economics; use math tools for research of socio-economic processes, solutions applied tasks in the field of accounting, analysis, control, audit, taxation; conduct an analysis of economic activity enterprises and financial analysis for adoption management decisions.

## COURSE STRUCTURE

Theme	Hours (lectures / laboratory, practical, seminar)	Learning results	Task	Evaluation
<b>1 Semester</b>				
<b>Module 1. Descriptive Statistics</b>				
<b>Theme 1. Methodological bases of statistics</b>	2/1	Students should know: object of Statistics, its main category. Statistical methodology. Program-methodology questions of statistical observation. Organize questions of statistical observation. Principles of forming groups. Statistical tables. Essence and kind of statistical indexes. Absolute statistical value. Relative values. Average indexes. System of statistical indexes.	Tasks of practical work. Writing tests, essays. Doing independent work (including in elearn) Problem solving, presentations etc.	Execution and delivery of laboratory works - credited. Module: descriptive part 100; test part 30 * 0.1; Independent work - according to the evaluation journal in eLearn.
<b>Theme 2. Statistical observation</b>				
<b>Theme 3. Summary and grouping of statistical data. Statistical tables</b>	2/1			
<b>Theme 4. Analysis of distribution series</b>				
<b>Theme 5. Summarizing statistical indicators</b>	4/2			
	4/8			
	2/2			
<b>Total for module 1</b>	<b>14/14</b>			<b>100</b>
<b>Module 2. Inferential Statistics</b>				
<b>Theme 6. Variation rates</b>	4/4	Students should know: sampling kinds, statistical verification of hypothesis. Kinds of interconnections. Regression analysis. Value of tightness and verification of the essence of correlation connection. Rang correlation. Conformity value of attributive rows variation.	Tasks of practical work. Writing tests, essays. Doing independent work (including in elearn) Problem	Execution and delivery of laboratory works - credited. Module: descriptive part 100; test part 30 * 0.1; Independent work - according to the evaluation journal in
<b>Theme 7. Selective method</b>	4/4			
<b>Theme 8. Statistical hypotheses</b>				
<b>Theme 9. Statistical methods for measuring interconnections</b>	2/2			

	6/6		solving, presentations etc.	eLearn.
<b>Total for module 2</b>	<b>16/16</b>			<b>100</b>
<i>Educational work 1 Semester</i>				<b>70</b>
<i>Credit Test</i>				<b>30</b>
<i>Total for 1 Semester</i>				<b>100</b>
<b>Module 3. Statistical methods of studying the dynamics of the development of socioeconomic phenomena</b>				
<b>Theme 10. Time Series</b>	2/2	Students should know: essence and compound elements of dynamic row.	Tasks of practical work.	Execution and delivery of laboratory works - credited.
<b>Theme 11. Analysis of development trends and fluctuations</b>	4/4	Characteristics of dynamic intensity. Average absolute and relative indicators of Time Series. Essence and functions of indexes. Aggregate form of indexes and average weighted indexes. Average indexes.	Writing tests, essays.	Module: descriptive part 100; test part 30 * 0.1;
<b>Theme 12. Index Analysis</b>	4/4	Kinds of statistical graphs.	Doing independent work (including in elearn)	Independent work - according to the evaluation journal in eLearn.
<b>Theme 13. Statistical Graphics</b>	2/2		Problem solving, presentations etc.	
<b>Total for module 3</b>	<b>12/12</b>			<b>100</b>
<b>Module 4. Basic of Statistics of Agriculture and Environment</b>				
<b>Theme 14. Agriculture statistics</b>	2/2	Students should know: object, tasks and system of statistics for crop production indexes. Statistics of area under crop. Statistics of gross yield of agrarian cultures.. Statistics of agro-technical.	Tasks of practical work.	Execution and delivery of laboratory works - credited.
<b>Theme 15. Crop statistics</b>	4/4	Object, tasks and system of statistics for animal husbandry. Statistics of quantity and structure of agrarian animals. Indexes of movement and reproduction of animals. Natural indexes of livestock production.	Writing tests, essays.	Module: descriptive part 100; test part 30 * 0.1;
<b>Theme 16. Livestock Statistics</b>	4/4		Doing independent work (including in elearn)	Independent work - according to the evaluation journal in eLearn.
<b>Total for module 4</b>	<b>10/10</b>			<b>100</b>

<b>Module 5. Basic of Economic Statistics</b>				
<b>Theme 17. Production statistics and production efficiency</b>	4/4	Students should know: statistics of fixed assets. Statistics of production and energetic equipment. Statistics of productivity and remuneration. Statistics of agricultural production efficiency. Methodological bases of economic and social statistics. Statistics of natural movement and population reproduction.		Execution and delivery of laboratory works - credited. Module: descriptive part 100; test part 30 * 0.1; Independent work - according to the evaluation journal in eLearn.
<b>Theme 18. Basics of socioeconomic statistics</b>	4/4			
<b>Total for module 5</b>	<b>8/8</b>			<b>100</b>
<i>Educational work 2 Semester</i>				<b>70</b>
<b>Exam Test</b>				<b>30</b>
<i>Total for 2 Semester</i>				<b>100</b>

### EVALUATION POLICY

<i>Deadline and recompilation policy:</i>	Works that are submitted in violation of 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>Visiting policy:</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

Rating of the applicant of higher education, points	National assessment for the results of examinations	
	Exam	Credit
90-100	excellent	credited
74-89	good	
60-73	satisfactorily	
0-59	unsatisfactorily	not credited