# Syllabus of the educational discipline

*«Statistics»*

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|---|---|
| **Specialty** | *073 Management* |
| **Study Programme** | *Logistics* |
| **Study cycle (Bachelor, Master, PhD)** | *the first (Bachelor) level of higher education* |
| **Course status** | *mandatory* |
| **Language** | *English* |
| **Term** | *second year, third semester* |
| **ECTS credits** | *5* |
| **Workload** | *Lectures – 24 hours.* |
| | *Laboratory classes – 24 hours.* |
| | *Independent training – 102 hours.* |
| **Assessment system** | *Grading including Exam* |
| **Department** | *Statistics and Economic Forecasting, 406 (1), Tel. +38 (057) 702-18-32, website of the department: https://statistics.hneu.edu.ua/* |
| **Teaching staff** | *Sierova Iryna, PhD of Economics, Associate professor of Statistics and Economic Forecasting Department* |
| **Contacts** | *Sierova I.: irina.cevaro@gmail.com* |
| **Course schedule** | *Lectures: according to the schedule*<br>*Laboratory studies: according to the schedule* |
| **Consultations** | *At the Department of Statistics and Economic Forecasting, offline, according to the schedule, individual, PNS chat.* |

**Learning objectives and skills:**

*is the formation of theoretical knowledge, applied skills and abilities in the organization of statistical observations, the use of methods of statistical analysis and forecasting of socio-economic phenomena and processes.*

**Structural and logical scheme of the course**

| Prerequisites for learning | Post-requisites for learning |
|---|---|
| Probability theory and mathematical statistics | Econometrics |
| | Finances |

**Course content**

**Content module 1.** *Introduction to statistics*
**Theme 1. Methodological principles of statistics**
**Theme 2. Statistical observation**
**Theme 3. Presentation of statistical data: tables, graphs and maps**
**Theme 4. Statistical data summarization and grouping**
**Content module 2.** *Statistical indicators and distribution series*
**Theme 5. Statistical indicators**
**Theme 6. Analysis of distribution series**
**Theme 7. Sampling and sampling distributions**
**Theme 8. Analysis of the concentration, differentiation and similarly of distributions**
**Content module 3.** *Methods for analysis of interrelations of phenomena and processes*
**Theme 9. Statistical methods for measuring interrelations**
**Theme 10. Analysis of the intensity of dynamics**
**Theme 11. Analysis of development trends and fluctuations**
**Theme 12. Index method**

**Teaching environment (software)**

*Multimedia projector, S. Kuznets PNS, Corporate Zoom system, software: MS Excel*

**Assessment system of learning outcomes**

The University uses a 100-point cumulative system for assessing the learning outcomes of students.
During the teaching of the course, the following control measures are used:
Current control: laboratory works (estimated at 3 points (five laboratory works during the semester – the total maximum number of points – 15)), essay in the form of a presentation (estimated at 3 points), homework in the form of a case study (estimated at 3 points (two homework during the semester – the total maximum number of points – 6)), test control (estimated at 2 points (twelve test control during the semester – the total maximum number of points – 24)), written control works (estimated at 6 points (two test control works during the semester – the total maximum number of points – 12)).
Semester control: Grading including Exam (40 points).
***More detailed information on assessment and grading system is given in the technological card of the course.***

**Course policies**

Teaching of the academic discipline is based on the principles of academic integrity.
Violation of academic integrity includes academic plagiarism, fabrication, falsification, cheating, deception, bribery, and biased assessment.
Education seekers may be brought to the following academic responsibility for breach of academic integrity: repeated assessment of the corresponding type of learning activity.

***More detailed information about competencies, learning outcomes, teaching methods, assessment forms, self-study is given in the Course program***