Syllabus of the educational discipline

«Econometrics»

Logistics the first (Bachelor) level of higher education
mandatory
English
second year, fourth semester
5
Lectures – 18 hours.
Practical studies– 14 hours.
Laboratory studies – 16 hours.
Self-study – 102 hours.
Grading
Economic Cybernetics and System Analysis Department, room 419 (main building), (057)702-06-74 (3-56), https://ek.hneu.edu.ua/
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Lectures: according to the schedule
Practical studies: according to the schedule
Laboratory studies: according to the schedule
At the Economic Cybernetics and System Analysis Department, offline, according to the schedule, individual PNS chat.

Learning objectives and skills:

is to form a system of theoretical knowledge and acquire the skill of constructing econometric models that quantitatively describe the relationships between economic variables. It also involves studying the conditions and possibilities of applying econometric methods to solve economic problems in real conditions.

Structural and logical scheme of the course

Prerequisites	Post-requisites
Higher Mathematics	Functional Logistics
Economy of the enterprise	Economic Analysis of Enterprise Activity
Probability Theory and Mathematical Statistics	

Content of the educational discipline

Content module 1. Methods of econometric modeling

Topic 1. Econometrics and Econometric Modeling

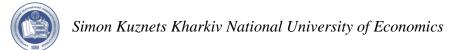
Topic 2. Simple Linear Regression

Topic 3. Multiple Linear Regression

Topic 4. Multicollinearity and its Impact on Model Parameter Estimates

Topic 5. Building a Model with Autocorrelated Residuals

Content module 2. Applied econometrics



Topic 6. Heteroskedasticity in Econometric Models

Topic 7. Nonlinear Regression. Production Functions

Topic 8. Topic 6. Heteroskedasticity in Econometric Models

Topic 9. Econometric Models Based on a System of Structural Equations

Teaching environment (software)

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

Assessment system

The final control includes current control and assessment of the student.

Semester control is carried out in the form of grading.

The final grade in the course is the amount of all points received during the current control.

During the teaching of the course, the following control measures are used:

- 1) Completion of individual assignments (maximum score -50 points).
- 2) Completion of intermediate test assessments (maximum score -30 points).
- 3) Completion of modular control works (maximum score 20 points).

Semester control: Grading

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