

Syllabus of the course

«Econometrics»

Specialty	051 Economics		
Study programme	International economics		
j	the first (Bachelor) level of higher education		
Course status	Mandatory		
Language	English		
Course / semester	second course, second semester		
ECTS credits	5		
Workload	Lectures – 24 hours.		
	Practical studies – 12 hours.		
	Laboratory studies – 12 hours.		
	Independent training – 102 hours.		
Assessment system	Grading including Exam		
Department	Department of Higher Mathematics, Economic and Mathematic		
-	Methods, auditorium 329 of the main building		
	phone: (057)702-04-05 (add. 3-33)		
	website: http://www.vm.hneu.edu.ua/		
Teaching staff	Ievgeniia Iuriivna Misiura, PhD in Technics, Associate professor		
Contacts	Ie. Iu. Misiura ievgeniia.misiura@hneu.net		
Course schedule	Lectures: according to the schedule		
	Practical studies: according to the schedule		
	Laboratory studies: according to the schedule		
Consultations	At the Department of Higher Mathematics, Economic and		
	Mathematic Methods, offline, according to the schedule, individual,		
	PNS chat.		
T	earning chiectives and skills:		

Learning objectives and skills:

form future specialists' mathematical knowledge for solving theoretical and practical economic problems in any sphere of a professional activity, master skills in analytical thinking and skills in using mathematical knowledge for formation of real processes and developments and for solving economic problems

Structural and logical scheme of the course

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	Prerequisites	Postrequisites		
	Higher mathematics	Statistics		
	Probability theory and mathematical statistics	Economic and mathematical methods and their		
		realization using PC		
	Operation Research and Optimization Methods			

Content of the educational discipline

Module 1. Pair and multiple linear regression models

- Theme 1. Particular properties of econometric models and principles of their construction.
- Theme 2. A pair regression and correlation in econometric research
- Theme 3. General questions in a construction of a multiple regression model
- Theme 4. An estimation of parameters of a linear equation of a multiple regression and its quality in a whole.
- Theme 5. Particular equations of a regression. Particular correlation. A forecasting using regression models in international economics.
- Theme 6. Problems in the construction of linear multiple regression models

Module 2. Types of econometric models



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- Theme 7. The generalized schemes of regression analysis.
- Theme 8. Systems of econometric equations.
- Theme 9. Dynamic econometric models
- Theme 10. Modeling one-dimensional time series
- Theme 11. Learning relationships using time series
- Theme 12. Factor analysis and its application to solving problems in international economics

 Teaching environment (software)

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

Assessment system

Assessment of students' learning outcomes is carried out by the University according to the cumulative 100-point system.

Current control is carried out during lectures and practical (seminar) classes and aims to assess the level of students' readiness to perform particular tasks, and it is assessed by the amount of scored points.

The maximum amount during the semester -60 points; the minimum amount required is 35 points. Final control is carried out at the end of the semester in the form of an exam (the maximum amount is 40 points, the minimum amount required is 25 points).

Current control includes the following assessment methods: homework; defence of laboratory works; a written test; an independent creative work, a colloquium.

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