

## Syllabus of the course

«Economic and mathematical models in international business»

Spacialty	202 «Internati	202 ulatan ati a al Ean ania Dalati ana	
Specially Study Programma	Luternational	292 «International Economic Relations»	
Study r rogramme	the first (Bachelon) level of higher education		
Master, PhD)	ine jirsi (bach	elor) level of higher eaucation	
Course status	elective	elective	
Language	English		
Term	third year fifth semester or third year sixth semester or		
	fourth year sev	enth semester	
ECIS credits	<u>)</u>		
Workload	Lectures - 12	Lectures – 12 hours.	
	Practical stud	Practical studies – 18 nours.	
	Laboratory sti	Laboratory studies – 18 hours.	
	Self-study – I	02 hours.	
Assessment system	Grading inclu	Grading including Exam	
Department	Department of higher mathematics and economic-mathematical methods, aud. 329 (main building), tel. (057)702-04-05, website of the department: <u>http://www.vm.hneu.edu.ua/</u>		
Teaching staff	Malyarets Lyudmila Mykhaylivna, doctor of science, professor, Martynova Olena Vadimovna, PhD, associate professor		
Contacts	malyarets@uk	malyarets@ukr.net	
	elenkavl21@g	elenkavl21@gmail.com	
Course schedule	Lectures: acco	Lectures: according to the schedule	
	Practical stud	Practical studies: according to the schedule	
Consultations	At the Department	At the Department of higher mathematics and economic- mathematical methods, offling, according to the schedule	
	individual PN	individual PNS chat	
	Learning objective	es and skills.	
of the educational discipline	is to form the acquir	rers of competences in the theory and practice of	
applying mathematical opti	mization methods ar	d methods and also models of econometrics for	
solving typical problem	in the field of inte	rnational economic relations, as well as the	
imp	lementation of these	methods on a computer	
Struc	tural and logical sc	heme of the course	
Prerequisites		Postregusites	
		1	
-		-	
-		-	
	Course con	itent	
<b>Content module 1.</b> Optimizat	ion methods in inter	national business	
Theme 1. Mathematical methods and models in international business. Linear programming problem			
			Topic 2. Graphical and simp
Topic 3. Theory of duali			
<b>Content module 2.</b> Econometric methods in international business <b>Content module 2.</b> Econometric methods in international business Tonic 5. Possibilities of accommetric models in international business and principles of			
			1 opic 5. recultarities of econometric models in international business and principles of
uneir construction			



Topic 6. Paired regression and correlation in international markets and testing the quality of the paired regression equation Topic 7. Linear models of multiple regression and reliability assessment of its results

Topic 8. Modeling of one-dimensional time series

**Topic 9.** Time series trend modeling. Forecasting in international busines

**Topic 10. Integral indicators on international markets** 

**Teaching environment (software)** 

Multimedia projector, S. Kuznets PNS, Corporate Zoom system

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 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: colloquiums; written tests ; homework; laboratory work; an independent creative task.

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.

Educational students 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.