

Simon Kuznets Kharkiv National University of Economics

# Syllabus of the course «Higher Mathematics»

Specialty	073 Management	
Study Programme	Logistics	
Study cycle (Bachelor, Master, PhD)		achelor) level of higher education
Course status	Mandatory	
Language	English	
Term	1 year, 1 semester	
ECTS credits	5	
Workload	Lectures – 16 hours.	
	Practical studies – 16 hours.	
	Laboratory studies – 16 hours.	
	Self-study – 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,	
	0 0	es and skills:
		e for solving theoretical and practical economic
		, master skills in analytical thinking and skills in
using mathematical knowledge for f		real processes and developments and for solving
	economic	*
	a logical sci	heme of the course
Prerequisites		Postrequisites
School course of mathematics		Probability theory and mathematical statistics
(geometry, algebra and precalculus)		Economy of entermise
		Economy of enterprise
		Econometrics
	2	
	Course cor	
Module 1: Linear algebra and analytic		
Topic 1. The elements of the theory of Topic 2. The general theory of theory of the general theory of the general theory of the gene		
Topic 2. The general theory of the sy Topic 3. The elements of vector elect		
Topic 3. The elements of vector algel		is of analytical geometry
Module 2: The elements of mathematic	•	fformatial adjudges of the function of one wardable
		fferential calculus of the function of one variable
Topic 5. Analysis of the function of s Topic 6. Integral calculus	everal varia	IDIES

- Topic 6. Integral calculus Topic 7. Differential equations
- **Topic 8. Series**



#### **Teaching environment (software)**

Multimedia projector, S. Kuznets PNS, Corporate Zoom system, software: MatLab, Octave

#### 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: 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