

Simon Kuznets Kharkiv National University of Economics

Syllabus of the educational discipline

«Higher Mathematics»

Specialty	073 Management
Educational program	Logistics
Level of education	First (bachelor) level of higher education
Discipline status	mandatory
Teaching language	English
Course / semester	1^{st} course, 1^{st} semester
Number of ECTS credits	5
Distribution by types of	Lectures – 16 hours.
trainings and hours of study	Practical studies – 16 hours.
	Laboratory studies – 16 hours.
	Independent training – 102 hours.
Form of final assessment	Exam
Department	Department of higher mathematics, economical and mathematical
-	methods, room 329 (main building), phone number (057) 7020405
	(or 3-33), department site: http://www.vm.hneu.edu.ua/
Teacher (-s)	Misiura Ievgeniia Iuriivna, PhD in technics, associate professor
Teacher's contacts	Misiura Ie. Iu.: Ievgeniia.Misiura@hneu.net
Days of classes	Lectures: according to the schedule
	Practical studies: according to the schedule
	Laboratory studies: <u>according to the schedule</u>
	http://rozklad.hneu.edu.ua/schedule/schedule?employee=422744
Consultations	in room of department of higher mathematics, economical and
	mathematical methods, full-time, according to the schedule of
	consultations, individual
The purpose of the discipline is forming future specialists' mathematical knowledge for solving	
theoretical and practical economic problems in any sphere of a professional activity	
Prerequisites for learning	
List of previously learned disciplines: School course of mathematics	
(geometry, algebra and precalculus)	
Content of the educational discipline	
Content module 1 Linear algebra and analytical geometry	
Theme 1. The elements of the theory of matrices and determinants	
Theme 2. The general theory of the system of linear algebraic equations	
Theme 3. The elements of vector algebra. Elements of analytical geometry	
Content module 2 The elements of mathematical analysis	
Theme 4. The limit of a function and continuity. Differential calculus of the function of one variable	
Theme 5. Analysis of the function of several variables	
Theme 6. Integral calculus	
Theme 7. Differential equations	
I neme 8. Series	
Material and technical support (software) of the discipline	
aevice: muitimeata projector; sojtware: MatLab, Octave	
Course page on the wioodie platform https://pns.hneu.edu.ua/	
(personal training system)	
Assessment system of learning outcomes	
Ine system of assessmen	t of competences which were formulated for a student during the

learning of the academic discipline, takes into consideration the forms of studies which according to the syllabus of the academic discipline is carried out on the accumulative 100-point system.



Current control is carried out within a term during lectures, practical studies and laboratory works in the following forms: homework; defence of laboratory works; written tests; an independent creative work and colloquiums. It is assessed as a sum of accumulative points (the maximum equals 60 points; the minimum which makes it possible for a student to pass an exam, equals 35 points).

Final control is conducted in the form of an exam according to the schedule of the educational process (the maximum is 40 points, the minimum of a quantity, which is passed, equals 25 points).

The final mark of the academic discipline is calculated according to the points obtained during the exam and points obtained during the current control on the accumulative system.

More detailed information on an assessment is given in the working plan (technological card) of the discipline.

Discipline policies

Teaching discipline is based on the principles of academic integrity. Violations of academic integrity are academic plagiarism, self-plagiarism, fabrication, falsification, write-off, deception, bribery, biased evaluation. For violation of academic integrity, students may be held subject to the following academic liability: re-passing the corresponding educational component of the educational program

More detailed information about competencies, learning outcomes, teaching methods, assessment forms, independent training is given in the Syllabus (working plan) of the educational discipline

Syllabus approved at the meeting of the Department "June 29", 2022. Protocol №11