Syllabus of the educational discipline
«*Higher Mathematics*»

Specialty	051 Economics,073 Management
Educational program	International economics, Business-administration Logistic, Management of innovative activity
Level of education	first(bachelor)
Discipline status	*Base*
Teaching language	*English*
Course / semester	*1stcourse, 1stsemester*
Number of credits ECTS	*5*
Distribution by types of trainings and hours of study	*Lectures – 24.hours.*
	Practical studies (seminars) – 12 hours.
	Laboratory studies – 12 hours.
	Independent training – 102 hours.
Form of final assessment	*Exam /Pass*
Department	Department of higher mathematics, economical and mathematical methods, Simon Kuznets KNUE, room 329 (main building), +38(057)702-04-05 (or 3-33), *E-mail: kafmath@hneu.edu.ua,* http://www.vm.hneu.edu.ua/
Teacher (-s)	MisiuraIevgeniiaIuriivna, PhD, associate professor *LebedevStepanSergovych,*assistent
Teacher's contacts	*misuraeu@gmail.com,Stepan.Lebedev@hneu.net*
Days of the classes	*Monday, Tuesday, Wednesday, Thursday, Friday*
Consultations	*Distance, according to the schedule*

The purpose of the discipline is

forming future specialists' basic mathematical knowledge for solving theoretical and practical problems in professional activity of a competent specialist in any sphere of his activity, skills in analytical thinking and skills in using mathematical knowledge for formation of real processes and developments, and for solving economic problems.

Prerequisitesforlearning
Assimilation of the material ofschool disciplines "Algebra" and "Geometry"

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
Theme 4. Elements of analytical geometry
Content module 2. The elements of mathematical analysis
Theme 5. The limit of a function and continuity
Theme 6. Differential calculus of the function of one variable
Theme 7. Analysis of the function of several variables
Theme 8. The indefinite integral
Theme 9. The definite integral and its application
Theme 10. Differential equations
Theme 11. Series

Material and technical support (software) of the discipline
Software *MatLab, Octave*

Course page on the Moodle platform (personal training system)	*Syllabus (working program), working plan (technological card), recommended literature, journal of students' attendance, materials of lectures (notes and presentations), questions to independent work, guidelines to conducting practical and laboratory studies, tasks for independent work, tests for checking students' knowledge, example of an examination paper and a*

	criteria of an assessment of examination work. https://pns.hneu.edu.ua/course/view.php?id=3612

Recommendedliterature

1. Вища математика : базовий підручник для вузів / під ред. В. С. Пономаренка. – Харків : Фоліо, 2014. – 669 с.
2. Вища математика: математичний аналіз, лінійна алгебра, аналітична геометрія [електронний ресурс]: підручник / [авт. кол. : Пономаренко В. С., Малярець Л. М., Афанасьєва Л. М. та ін. ; за ред. В. С. Пономаренка]. – Мультимедійне інтерактивне електрон. вид. комбінованого використ. (412 Мб). – Х.: ХНЕУ ім. С. Кузнеця, 2015. – Назва з тит. екрана. – ISBN 978-966-676-568-3.**3.** Guidelinesforpracticaltasksinanalyticgeometryoftheacademicdiscipline "HigherandAppliedMathematics" forforeignand English-learning full-timestudentsofthepreparatorydirection "Management" / compiledbyIe. Iu. Misiura. – Kh. : PublishingHouseofKhNUE, 2011. – 76 p. (English, Ukrainian)**4.** Methodical recommendationsfortheconductofthepracticalstudiesintheacademicdiscipline "Highermathematics" forforeignand English-learning studentsofthepreparatorydirection "Management" ofthe full-timeeducation / compliedbyIe. Iu. Misiura. – Kh. : PublishingHouseofKhNUE, 2010. – 44 p. (English, Ukrainian)
5. Математика для економістів: практ. посіб. до розв'язання задач економічних досліджень в MatLab / Л. М. Малярець, Є. В. Резнік, О. Г. Тижненко. – Х. : Вид. ХНЕУ, 2008. – 212 с.

Assessmentsystemoflearningoutcomes

Current control is carried out on a cumulative 100-point system (the maximum is 60 points; the minimum that allows a student to take the exam is 35); final control is conducted in the form of an exam according to the schedule of the educational process (maximum is 40 points, minimum is 25 points). More detailed information on assessment is given in the technological card of the discipline.

Accumulation of rating points in the discipline *(example)*

Types of training	Maxpoints
Homework	**9**
Competence oriented tasks	**12**
Written tests	**18**
Independent creative task	**7**
Colloquiums	**14**
Exam	**40**
Max points	**100**

Transference of Simon Kuznets KHNUE Characteristics of Students' Progress into the System of the ECTS Scale

Total score on a 100-point scale	ECTS assessment scale	Assessment on the national scale	
		for exam, differentiated test, course project (work), practice, training	for pass
90 – 100	A	excellent	pass
82 – 89	B	good	
74 – 81	C		
64 – 73	D	satisfactory	
60 – 63	E		
35 – 59	FX	unsatisfactory	not pass
1 – 34	F		

Discipline policies

Policy of academic integrity (according to the Law of Ukraine "On Education") - "Teaching discipline is based on the principles of academic integrity - a set of ethical principles and statutory rules that should guide participants in the educational process during training, teaching and conducting scientific (creative) activities to ensure confidence in learning outcomes and / or scientific (creative) achievements. 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-assessment (test, exam, test, etc.); re-passing the relevant educational component of the educational program. Write-off during control (modular) works is forbidden (including with use of mobile devices). https://www.hneu.edu.ua/akademichna-dobrochesnist/

More detailed information about competencies, learning outcomes, teaching methods, assessment forms, independent training is given in the Syllabus (working plan)of the educational discipline (http://repository.hneu.edu.ua/handle/123456789/19987).

Syllabus approved at the meeting of the Department "August 20", 2020. Protocol №1