МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ ХАРКІВСЬКИЙ НАЦІОНАЛЬНИЙ ЕКОНОМІЧНИЙ УНІВЕРСИТЕТ ІМЕНІ СЕМЕНА КУЗНЕЦЯ

"ЗАТВЕРДЖУЮ"
Проректор з науково-педагогічної роботи

1 . Oliv. 4

ВИЩА МАТЕМАТИКА робоча програма навчальної дисципліни

Галузь знань

07 Управління та адміністрування

Спеціальність

073 Менеджмент

Освітній рівень

перший (бакалаврський)

Освітня програма

Бізнес-адміністрування

Статус дисципліни

Мова викладання, навчання та оцінювання

обов'язкова англійська

Завідувач кафедри вищої математики та економіко-математичних методів

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Людмила МАЛЯРЕЦЬ

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE SIMON KUZNETS KHARKIV NATIONAL UNIVERSITY OF ECONOMICS

"APPROVED"

Vice-Rector on Scientific and Pedagogical work

Karina NEMASHKALO

HIGHER MATHEMATICS

syllabus of the academic discipline

Training direction

07 Management and administration

Speciality

073 Management first (bachelor)

Academic degree Academic program

Business-administration

Status of the academic discipline

Language of teaching, training and assessment

Compulsory

English

Chief of the department of higher mathematics,

economical and mathematical methods

Lyudmyla MALYRETS

APPROVED

at the meeting of the department of higher mathematics and economic mathematical methods

Protocol № 1 dated 27.08.2021

Compiled by:

Ie. Misiura, PhD, Associate professor of the department of higher mathematics and economic mathematical methods;

Sheet of renewal and re-approval of the academic discipline syllabus

Academic year	Date of the department meeting – the developer of syllabus of the academic discipline	Protocol number	Signature of chief of the department

The annotation of the academic discipline

The fundamental base in the mathematical preparation of economists and managers is the academic discipline "Higher Mathematics" which is a compulsory discipline of the natural scientific series and the component of the structural logical scheme which is provided for the educational professional program of bachelors of speciality 073 "Management".

The basic problems of teaching the academic discipline is giving students knowledge of the basic parts of mathematical analysis and linear algebra; a rising of the level of the fundamental mathematical training of students with intensification of its applied direction, mastering the fundamentals of mathematical analysis and linear algebra and application of this knowledge to the economic investigations for solving economic problems, forming skills in application of elements of mathematical analysis and linear algebra in investigations where higher mathematics is applied as instrument of investigation and solving optimization economic problems for forming models of economic processes and developments, acquiring the necessary theoretical and practical knowledge for solving specific problems, which are set in the process of forming economic and mathematical models, and the obtaining the required mathematical knowledge for the study of other disciplines.

The main purpose of teaching is to form future specialists' basic mathematical knowledge for solving theoretical and practical problems in professional activity of a competent specialist in the service sphere, skills in analytical thinking and skills in using mathematical knowledge for formation of real processes and developments, and for solving economic problems.

The characteristics of the academic discipline:

Academic year	1st
Term	1st
Number of credits	5
Form of the final control	exam

Structural and logical scheme of studying the academic discipline:

Prerequisites	Post-requisites
Algebra (Mathematics)	Probability theory and
	mathematical statistics
Geometry (Mathematics)	Operations research and optimization
	methods
	Econometrics

Competences and the results of mastering the academic discipline:

General competences (GC) / Professional competences (PC)	Learning outcomes (LO)
GC3 (3K3). An ability to an abstract thinking, an analysis, a synthesis.	LO6 (PH6). Demonstrate skills of a search, a collection and an analysis of information, a
GC4 (3K4). An ability to apply knowledge in	calculation of indicators to interpret management
practical situations.	decisions.
GC8 (3K8). Skills in the use of information and	
communication technologies.	
PC2 (CK2). An ability to analyze the results of	
an activity of a company, compare them with the	
factors of external and internal environment	
GC3 (3K3). An ability to an abstract thinking, an	LO19 (PH19). Demonstrate skills of an analysis
analysis, a synthesis.	and a synthesis of information, adapting them to
GC4 (3K4). An ability to apply knowledge in	analyze and solve problems in different areas of
practical situations.	business and management
GC8 (3K8). Skills in the use of information and	
communication technologies.	

*СК – спеціальні (фахові) компетентності, ЗК – загальні компетентності, РН – результати навчання

The syllabus of the academic discipline The themes of lectures

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
- Theme 8. Series

The list of practical and laboratory studies, as well as questions and tasks for an independent work is given in the table "Rating-plan of the discipline".

Methods of study and teaching

To intensify the process of teaching the academic discipline "Higher Mathematics" the following educational technologies are applied mini-lectures, work in small groups, brainstorms, computer simulation (games), the Delphi method.

A computer simulation (game) is an education method, which is based on the use of a spesific computer program in order to get visual modelling of a process. Students can change the parameters and data, decisions and analyze the results of such decisions. The purpose of using this method is the development of systematic thinking of students, their ability to plan, form skills to identify and analyze problems, compare and estimate alternatives, make optimal decisions and work under the condition of a limited time (themes: 1, 3, 4, 5).

Mini-lectures provide for the delivery the educational material during a short-length segment of time and they are characterized by a significant content, complexity of logical constructions, forms, proofs and generalizations. They are conducted, as a rule, as a part of a study-investigation. Mini-lectures differ from full-size lectures by a shorter duration. Usually, they last no more than 10 - 15 minutes and they are used in order to give briefly new information for all students. Mini lectures are often used as parts of a whole theme, which it is desirable to teach as a full-size lecture in order to avoid the audience's getting tired. Then the information is given by turn as several particular fragments, between them other forms and methods of study are used (*themes*: 1, 2, 4, 6, 7).

Work in small groups gives an opportunity to structure practical studies in the form and content, gives a possibility for each student's partaking in the work on the theme under study, stimulates forming personal qualities and experience of social communication (*themes:* 1 - 8).

Brainstorming is a method of solving urgent tasks, its core lies in expressing as many ideas as possible in a short period of time, discussing and selecting them (*themes*: 1, 3, 4, 7).

The Delphi method is used for the purpose of reaching a consensus in expert judgements. It gives a possibility for students to express their thoughts to a group of experts, which work individually in different places. To choose a management decision according to this method, the academic group is divided, for example, into five small groups. Four groups work, develop and make a management decision, and the fifth group is the expert team. This group carries out an analysis of the variants of management decisions, which are proposed by the working groups, and assesses these variants. Within the expert group the distribution of its members according to specializations is fulfilled (themes: 5, 6).

The order of assessment of studying results

The system of assessment 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 provide lectures, practical studies, laboratory works, fulfillment of students' independent work. The assessment of the formed competences of students is carried out on the accumulative 100-point system. Control ways include:

current control which is carried out within a term during lectures, practical studies and laboratory works and 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);

module control which is carried out in the form of a colloquium with taking into account the current control according to a corresponding thematic module, provides an integral assessment of student's results after learning the material of a logically completed part of the discipline (or a thematic module);

final/term control, which is carried out as a terminal exam, according to the schedule of the educational process.

Current control on the given academic discipline is carried out in the following forms: homework; defence of laboratory works; a written test; an independent creative work, a colloquium.

The total number of points is 60, which are distributed as lectures (including 2 colloquiums (14 points) and one independent creative work (7 points), practical studies (including 2 written tests (16 points) and homework (7 points)) and laboratory studies (including 8 laboratory works (16 points)).

Final/term control is conducted in the form of a term exam. **Term exams** are a form of assessment of students' final mastery of the theoretical and practical material of a particular module of the academic discipline or the academic discipline on the whole, which is conducted as a test.

Assessment of student's knowledge during practical studies and carrying out laboratory works is conducted on the accumulative system according to the following criteria: understanding, the degree of the mastery of the theory and methodology of problems which are considered; the degree of the mastery of the factual material of the academic discipline; familiarizing with the recommended literary sources and modern literature on the questions which are considered; the ability to connect theory and practice in the consideration of particular examples, solving problems, carrying out laboratory works, carrying out calculations in the process of doing homework and tasks which are considered in class; the logic, structure, style of presenting the material in written works and in oral answers in class, the ability to ground one's position, carry out generalization of the information and draw conclusions.

The general criteria for the assessment of *independent work* of students are profound and deep of knowledge, the level of thinking, skills in systematization knowledge on particular themes, skills in drawing conclusions, attainments and techniques of carrying out practical tasks, the ability to find necessary information, carry out its classification and processing, self-realization in practical and laboratory studies.

The criteria for assessment of independent creative work and independent tests are: the ability to carry out a critical and an independent estimation of the defined problem questions; skills in the explanation of alternative views and availability of a students' own point of view, position on the defined problem question; using the analytical approach; the quality and accuracy of expressing the thought; the logic, structure and explanation of conclusions about a particular problem; independence of carrying out of the work; grammatical correctness of the presentation of the material; using the methods of comparison, generalization of the concepts and facts; the design of the work; the quality of presentation.

Independent work is a scheduled educational and scientific work which is carried out on a lecture task under the methodical and scientific guidance of a lecturer, it is a specific form of the educational activity, its main objective is forming independence of a person.

The educational time, which is intended for students' independent work of the day-time form of education, is defined according to the educational plan and makes 68 % (102 hours) out of the total educational time for learning the discipline.

During independent work a student becomes an active participant in the educational process, learns to master consciously theoretical and practical knowledge, orientates easily in the information space, has to take responsibility for the quality of his own professional training.

The necessary element of successful mastery of the material of the academic discipline is the students' independent work with specifical literature of the mathematical and economic direction.

The final control (the exam) of knowledge and competences of students on the academic discipline is carried out on the base of the term exam. The examination paper includes the syllabus of the discipline and provides for assessment of the knowledge level and a degree of the mastery of corresponding competences of students.

The purpose of the exam is to test student's understanding of the syllabus material on the whole, the logic and relations between its particular parts, the skills in the creative use of the stored knowledge, the ability to formulate one's attitude to a particular problem of the academic discipline and so on. The competent approach to the assessment of the exam implies measuring the level of the student's mastery of the competences provided by the qualifying requirements.

Each examination paper contains 5 practical tasks, including two first-level (diagnostic) tasks, two second level (situational) tasks and one third level (heuristic) task.

The assessment of the exam is carried out according to the temporary provision "About the Order of Assessment of Students' Academic Performance on the Accumulative Point Rating System" of Simon Kuznets Kharkiv National University of Economics.

A student can't be allowed to take the exam, if the number of points, obtained during the current and module control according to the thematic module during the term, does not make 35 points. After the examination period the dean of the department gives a notice about sitting the failed exams. In a given period the student adds the required points.

In the case of irreproachable fulfillment of all the examination tasks with the demonstration of deep knowledge of the academic discipline, skills in the practical use of the formed competences which are based on the ability to analyze and solve a wide range of tasks, a high level of completing the written work the student obtains 40 points.

It should be assessed student's progress, if a sum of points, obtained as the total result of an assessment by all forms of a control, equals or exceeds 60. Accordingly the minimal possible quantity of points by a current and a module control during a term equals 35 and the minimal possible quantity of points, obtained on an exam, equals 25.

The result of a terminal exam is assessed in points (the maximum is 40 points, the minimum of a quantity, which is passed, equals 25 points) and it is entered into the corresponding column of an *examination «Mark sheet»*.

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.

The total result in points during the term is "60 and more points mean passed", "59 and less points mean failed" and it is entered into the "Mark sheet" on the academic discipline.

The scales of assessment: national and ECTS

Sum of points including	Mark on the ECTS scale	Mark on the national scale		
all forms of study		for an exam, a term paper, practice	for a test	
90 – 100	A	excellent		
82 - 89	В	very good	passed	
74 – 81	С	good		
64 - 73	D	antiafaatomy		
60 – 63	Е	satisfactory		
35 – 59	FX	unsatisfactory	failed	
1 - 34	F	unsaustactory	Taneu	

Rating-plan of the academic discipline

Lecture Lecture The elements of the theory of matrices and determinants	Theme		Forms of assessment	Maxi- mal point	
Practical study Practical study Practical study Independent work Questions and tasks to self-study Practical study Practical study Practical study Practical study Independent work Questions and tasks to self-study Independent work Lecture Lecture Lecture Lecture Lecture Lecture Laboratory work 1. The elements of the laboratory work 1 sudy Search, choice and looking through literary sources on the theme. Learning the lecture material. Carrying out practical homework and a laboratory work. Practical study Practical study 2. The general theory of the system of linear algebraic equations Practical study Laboratory Laboratory work 2. The general theory of the system of linear algebraic equations Vork Laboratory Laboratory work 2. The general theory of the system of linear algebraic equations Independent work Questions and tasks to self-study Receive Lecture Lecture Lecture 3. The elements of vector algebra. Elements of analytical geometry Practical study Practical study 3. The elements of vector algebra. Elements of analytical geometry Laboratory Laboratory work 3. The elements of vector algebra. Elements of analytical geometry Laboratory Laboratory work 3. The elements of vector algebra. Elements of analytical geometry Laboratory bractical study 3. The elements of vector algebra. Elements of analytical geometry Laboratory work 3. The elements of vector algebra because on the theme. Learning the lecture work and a laboratory work and a laboratory work and a laboratory work and a laboratory work on the theme. Learning the lecture work Class work Lecture Lecture 4. The limit of a function and continuity. Differential calculus of the function of one variable Practical study Practical study 4. The limit of a function and continuity. Differential calculus of the function and continuity. Differential calculus of the function and continuity. Differential ca	1		2	3	4
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Tasks to self-study Tasks to self-study Tasks to self-study Tactical study	I		Independent work		
Class work		tasks to self-	sources on the theme. Learning the lecture material. Carrying out practical homework and	homework	1
Practical study Practical			· ·		1
System of linear algebraic equations Laboratory Study System of linear algebraic equations Laboratory System of linear algebraic equations Work		Lecture	, ,		
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Practical study			Class work		1
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	study	and continuity. Differential calculus of the	work	
	·	function of one variable		
		Independent work		
	Questions and tasks to self- study	Search, choice and looking through literary sources on the theme. Learning the lecture material. Carrying out practical homework and a laboratory work.	homework	1
		Class work		
	Lecture	Lecture 5. Analysis of the function of several variables		
w	Practical study	Practical study 5. Analysis of the function of several variables		
Theme 5	Laboratory study	Laboratory work 5. Analysis of the function of several variables	laboratory work	2
L		Independent work		
	Questions and tasks to self- study	Search, choice and looking through literary sources on the theme. Learning the lecture material. Carrying out practical homework and a laboratory work.	homework	1
		Class work		
	Lecture	Lecture 6. Integral calculus		
	Practical study	Practical study 6. Integral calculus		
Theme 6	Laboratory study	Laboratory work 6. Integral calculus	laboratory work	2
Lhe	Independent work			
L	Questions and tasks to self- study	Search, choice and looking through literary sources on the theme. Learning the lecture material. Carrying out practical homework and a laboratory work.	homework	1
		Class work		
	Lecture	Lecture 7. Differential equations	independent creative task	7
7	Practical study	Practical study 7. Differential equations	written test	8
Theme 7	Laboratory study	Laboratory work 7. Differential equations	laboratory work	2
L		Independent work		
	Questions and tasks to self- study	Search, choice and looking through literary sources on the theme. Learning the lecture material. Carrying out practical homework and a laboratory work.	homework	1
		Class work		
	Lecture	Lecture 8. Series	colloquium 2	7
	Practical study	Practical study 8. Series	1.1	
Theme 8	Laboratory study	Laboratory work 8. Series	laboratory work	2
T	Questions and	Independent work Search, choice and looking through literary	1	
	tasks to self- study	sources on the theme. Learning the lecture material. Carrying out practical homework		
	Exam	and a laboratory work.		40
	L'AAIII			40

Recommended reading

Main

- 1. Барабаш Г. М. Збірник-довідник з курсу "Вища математика для економістів" / Барабаш Г. М., Кирилич В. М., Пелюшкевич О. В. // Львів: Видавничий центр ЛНУ імені Івана Франка, 2018. 257 с.
 - 2. Барковський В.В. Вища математика для економістів: навч. посібник / Барковський В.В., Барковська Т.В. Київ : ЦУЛ, 2019. 456 с
 - 3. 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.
 - 4. Вища математика [Текст] : конспект лекцій: у 2-х ч. Ч.2 / І. Г. Голубков, В. А. Клименко, Т. І. Жиленко. Суми : СумДУ, 2018. 116 с.
 - 5. Лиходєєва Г.В., Пастирєва К.Ю. Диференціальні рівняння: працюємо самостійно : навч. посіб. К.: ЦУЛ, 2018. 144 с.
 - 6. Мацкул В.М. Вища математика для економістів.: Підручник. Одеса: ОНЕУ, 2018. 472 с.
 - 7. Математика для економістів: Конспект лекцій [Електронний ресурс] : навчальний посібник / КПІ ім. Ігоря Сікорського ; уклад. І. Д. Фартушний. Електронні текстові дані (1 файл: 2,91 Мбайт). Київ : КПІ ім. Ігоря Сікорського, 2019. 109 с.
 - 8. Simon C.P., Blume L. Mathematics for Economists (2018) NY: Viva Books 960 p.

Additional

- 9. Білоус, О. А. Методичні вказівки до практичних занять із курсу "Вища математика". Розділ "Елементи лінійної алгебри" [Текст] : для студ. інженерних напрямів підготовки усіх форм навчання / І. Г. Голубков, В. А. Клименко, О. А. Білоус. Суми : СумДУ, 2019. 23 с
- 10. Волков Ю.І., Войналович Н.М. Вища математика. Лекції, завдання для практичних занять та самостійної роботи студентів, частина 1: Навчальний посібник. Кропивницький: ПП «Ексклюзив Систем», 2019. 73 с.
- 11. Щетініна О.К. Вища та прикладна математика в економічних прикладах та задачах. Практикум, ч.2.: навч. пос./ О.К. Щетініна, С.В. Білоусова, Ю.А. Гладка, Т.В. Ковальчук . К.: КНТЕУ, $2019-310~\rm c$.

Internet Information Resources:

12. Xavier Boix, Joe Olson (2018)

https://cbmm.mit.edu/sites/default/files/documents/algebra.pdf

13. Octave Programming Tutorial/Vectors and matrices

https://en.wikibooks.org/wiki/Octave Programming Tutorial/Vectors and matrices

14. Octave Guidelines

http://www.philender.com/courses/multivariate/notes/matoctave.html,

15. Освітньо-професійна програма "Бізнес-адміністрування" https://www.hneu.edu.ua/wp-content/uploads/2021/07/Biznes-administruvannya-OPP-2021-bakalavr.pdf

Methodical support

16. Сайт персональних навчальних систем: Higher mathematics (6.073.020, 6.073.030, 6.073.040), доц. Місюра Є.Ю. https://pns.hneu.edu.ua/course/view.php?id=7959