



**PRIVATE HIGHER EDUCATIONAL ESTABLISHMENT
«KYIV MEDICAL UNIVERSITY»**

SYLLABUS

Ukrainian As a Foreign Language

Field of study	22 HealthCare
Programme Subject Area/Educational Program	221 «Dentistry» / EP «Dentistry" 2024
Level of higher education	Second (master's) level of higher education
Mode of study	Full-time
Academic year	2025-2026
Semester(s)	1,2,3,4

General information

Department	Humanities and Social Sciences Department
	The head of the department: Svetlana Zelentsova PhD s.zelentsova@kmu.edu.ua
	Address: 2, Boryspilska St., Kyiv
	https://sites.google.com/kmu.edu.ua/humanities-and-social-sciences/%D0%B3%D0%BE%D0%BB%D0%BE%D0%B2%D0%BD%D0%B0-%D1%81%D1%82%D0%BE%D1%80%D1%96%D0%BD%D0%BA%D0%B0-main-page
Teacher(s)	Flegontova Natalia Nikolaevna n.flegontova@kmu.edu.ua Lyalina Olga Alexandrovna o.lialina@kmu.edu.ua Vykhov Viktor Grigorovich v.vykhov@kmu.edu.ua
Teacher's portfolio	https://sites.google.com/kmu.edu.ua/humanities-and-social-sciences/%D0%BF%D1%80%D0%BE-%D0%BA%D0%B0%D1%84%D0%B5%D0%B4%D1%80%D1%83-about-the-department/%D1%88%D1%82%D0%B0%D1%82-%D0%BA%D0%B0%D1%84%D0%B5%D0%B4%D1%80%D0%B8-staff-of-the-department
Consultations	Consultations are conducted by a teacher who is assigned to an academic group in accordance with the distribution of the teaching workload.

General characteristics of the educational component

Annotation	“Ukrainian as a foreign language” is an educational component which involves providing the communicative needs of the students in different spheres (educational, social and domestic, vocational, cultural and scientific). The educational component is to provide the foreign students the formation and improvement of skills and comprehension in all kinds of communicative activity (reading, writing, listening and speaking); the formation of the complete knowledge system about the language;
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	the formation of the complex competence (integral, general, special) of the foreign students in order to master Ukrainian language; the assistance in adaptation of the foreign students to the life and studies in Ukraine; the organization of educational activities in accordance with the communicative, psychological cognitive needs of students; the formation of the skills and abilities of effective communication.
Aims	<p>The aim of studying this educational component is to form the phonetic, grammatical, lexical, educational, professional, communication skills.</p> <p>The goals are:</p> <ul style="list-style-type: none"> to provide foreign students with the necessary receptive (listening, reading) and productive, reproductive (speech, writing) skills of the main types of speech activity; to effectively use the Ukrainian language in various situations of social, educational and professional communication; to form the ability to educational and cognitive activity.
Type	Compulsory educational component (CC)
Prerequisites for studying the educational component	To successfully master this educational component, the student must have fundamental knowledge of general education subjects studied within the framework of the complete general secondary education program, specifically: Biology and Ecology, Chemistry, Physics, Life Safety, and Basics of Health; or during studies in professional pre-higher education programs (Professional Junior Bachelor / Junior Specialist, etc.), specifically in the following subjects: Normal Anatomy, Normal Physiology, Medical and Biological Physics.
Post-requisites for the study of the educational component	The educational component “Ukrainian as a foreign language ” lays the foundation for the student’s mastery of the following subsequent educational components: Physiology, Pathophysiology, Pathomorphology, Propaedeutics of Clinical Disciplines (Propaedeutics of Therapeutic Dentistry, Propaedeutics of Orthopedic Dentistry, Propaedeutics of Pediatric Therapeutic Dentistry), as well as for the development of skills to apply knowledge of human anatomy in the course of further study of all clinical disciplines.
Required equipment	<p>Use of multimedia teaching aids, creation of presentations, demonstration of educational videos.</p> <p>Computer - 1;</p>
Other requirements for students	<p>Students must come to class in medical clothing (medical white gown, surgical gown) and a spare pair of shoes;</p> <ul style="list-style-type: none"> - wear clean clothes and shoes; - have a neat-looking hairstyle with clean hair neatly tucked under a medical cap, clean hands with short nails. <p>In the case of a mixed form of education, additional rules are introduced:</p> <ul style="list-style-type: none"> - students must join classes in neat clothes; - the room from which the student joins the class via video must have sufficient lighting and no unnecessary distracting sounds. <p>The student must have a workbook, laptop or other device with an Internet connection (phone, tablet, etc.), and a corporate email address.</p>

Information for people with special educational needs		If there are special educational needs, the applicant must apply to the head of the department and the dean's office of the relevant faculty before starting to study this educational component. The head of the department: Svetlana Zelentsova PhD s.zelentsova@kmu.edu.ua , Lyalina Olga Alexandrovna o.lialina@kmu.edu.ua .		
Scope of the educational component				
General	Lectures	Practical/laboratory/seminar classes	Independent work	Type of final control
Academic hours: 270	-	160	110	Credit
ECTS credits:	9			
Rules and regulations				
Rules for attending classes The rules for attending classes by students are governed by the Regulations on the organization of the educational process at the Private higher educational establishment «Kyiv Medical University». In the case of teaching the educational component in a mixed form of education, each student must connect to Google Classroom and Google Meet through a corporate email address (with the domain @kmu.edu.ua).				
Rules of behavior and activity in the classroom, requirements for appearance and clothing The student is obliged to: <ul style="list-style-type: none">- follow the legislation of Ukraine, the Statute and internal regulations of the University, requirements for labor protection, fire safety and safety rules during martial law https://kmu.edu.ua/pravila-bezpeki-pid-chas-voyennogo-stanu/;- fulfill the requirements of the curriculum, the schedule of the educational process;- to systematically acquire knowledge, practical skills, professional skills, and improve their general and cultural level;- rework missed classes within two weeks;- take care of the property of the department and University (inventory, educational equipment, books, devices, rooms), as well as their documents (student card, individual curriculum, etc.);- adhere to the norms of ethics and morality, not use obscene language, behave with honor, refrain from actions that would interfere with other students or employees of the department in the performance of their official duties;- maintain cleanliness and discipline in the rooms and on the territory of the department;- come to class no later than 10 minutes before the start of the lesson;- be at the University in business clothes. Students must wear medical clothing (medical white gown, surgical gown) and a spare pair of shoes;- have clean and tidy clothes and shoes;- have a neat-looking hairstyle with clean hair neatly tucked under a medical cap, clean hands with short nails. In the case of a mixed form of education, additional rules are introduced: <ul style="list-style-type: none">- students must join classes in neat clothes;- the room from which the student joins the class via video must have sufficient lighting and no unnecessary distracting sounds.				
Compliance with academic integrity for all participants in the educational process all participants in the educational process must follow the Regulations on Academic Integrity at the PHEE «Kyiv Medical University».				
Organization of independent work Independent work is a type of mental activity in which a student independently (without assistance) works on a practical question, topic, solves a problem or performs an assignment based on knowledge				

gained from textbooks, books, scientific articles, lectures and practical classes. Educational component topics for independent study, as provided for in the syllabus, are included in the final assessment the final session of the semester according to the syllabus; they may also be processed along with the instructional material during practical or seminar classes, specifically by being included in the testing component of the practical sessions.
Appeal of academic results In case of disagreement with the assessment, the applicant has the right to appeal the results of the final assessment by submitting an appropriate application for appeal in accordance with Regulations on the organization of the educational process at the Private higher educational establishment «Kyiv Medical University».

Results of studying the educational component (hereinafter referred to as the RSEC)		
	Code	Name of RSEC
Knowledge:	K1	Know the basic phonetic, morphological, word-forming, lexical minimum; know professional terminology
	K2	Possess knowledge of typical lexical and grammatical patterns
	K3	Acquire knowledge of traditions, morality, and national culture of Ukraine.
Skills:	S1	To be able to read and understand oral and written speech independently (social and domestic spheres)
	S2	To use vocabulary, terminology and grammatical constructions (educational-scientific and educational-professional spheres).
	S3	To master the methodology work with professional scientific texts.
Practical skills:	PS1	Writing, reading and understanding speech (social and everyday spheres).
	PS2	Using grammatical constructions necessary for reading educational literature.
	PS3	Knowledge of terminology, working with terminology dictionaries.
	PS4	Using knowledge skills in the process of compiling a medical history, prescribing treatment.

The contribution of the RSEC to the formation of general (GC) and special competencies (SC) in accordance with the Educational Program (hereinafter referred to as the EP)			
Competencies	Code of competencies	Name of competencies	RSEC
General competencies	GC4	Ability to communicate fluently in the state language orally and in writing	K1, K2, K3, S1, S2, PS1, PS2, PS3, PS4
	GC6	Skills in using information and communication technologies.	K1, K2, K3, K, S1, S2, PS1, PS2, PS3, PS4
	GC7	Ability to search, process, and analyze information from various sources.	K1, K2, K3, K, S1, S2, PS1, PS2, PS3, PS4

	GC8	Ability to adapt and act in new situations.	K1, K2, S1, S2, PS1, PS2, PS3
Special (professional, subject) competencies	SC 1	Ability to collect medical information about the patient and analyze clinical data.	K1, K2, K3, K, S1, S2, PS1, PS2, PS3, PS4
	SC 2	Ability to determine the necessary range of laboratory and instrumental studies and evaluate their results.	K1, K2, K3, K, S1, S2, PS1, PS2, PS3, PS4

The contribution of the RSEC to the programmatic learning outcomes (PLOs) defined in the EP			
Code of PLOs	Name of PLOs	List of syndromes and symptoms; diseases; conditions; emergencies; studies; medical procedures specified in the appendices (lists) to the EP	RSEC
PLOs14	Analyze and evaluate state, social, and medical information using standard approaches and computer information technologies..	-	K1, K2, K3, S1, S2, PS1, PS2, PS3, PS4
PLOs18	Recognize and adhere to civil rights, freedoms and responsibilities, and to raise the general educational cultural level.	-	K1, K2, K3, S1, S2, PS1, PS2, PS3, PS4

Practical / seminar classes		
№	Topic of the class	Number of hours
1 semester		
1	The Ukrainian alphabet. Vowels and consonants of the Ukrainian language. Greeting, forms of greetings, introduction	6
2	Soft consonants. Soft sign, pronunciation of soft consonants. Apostrophe. Evaluation.	4
3	Gender of Nouns. Lexical topic "Months. Seasons".	6
4	The number of nouns. Lexical topic "Weather".	4
5	Personal pronouns. Possessive pronouns. Lexical topic "My family".	6
6	Verb. The present tense. Lexical topic "My group". "My Motherland".	8
7	The cases of nouns. Lexical topics "My friend". "My room". "My university".	12
8	Cardinal numerals. Numbers. Lexical topic "Food".	4
9	Adjectives, gender and number of adjectives. Adverbs. Lexical topic "Shop".	6
10	Comparative and superlative degrees of Ukrainian adjectives. Lexical topic "Transport". Final test	4
2 semester		
1	Antonyms of adjectives. Lexical topic "In airport".	2
2	The combination of a noun and an adjective. Lexical topic "Geographic information about Ukraine".	4

3	Adverbs answering the questions Де? Коли? Adverbial Antonyms. Lexical topic "Geographic information about Ukraine".	2
4	The cases of nouns. The Prepositional case of nouns. Lexical topic "Kyiv is the capital of Ukraine".	6
5	Verb. The Present tense. Lexical topic "Cities of Ukraine".	4
6	The Past tense of verbs. Lexical topic "Holidays in Ukraine".	4
7	The Future tense of verbs. Lexical topic "Traditions in Ukraine".	4
8	Verb aspects. Lexical topic "Traditions in my country".	6
9	The Accusative case of nouns. Lexical topic "Interesting facts about Ukraine".	4
10	The Genitive case of nouns. "Interesting facts about my country".	6
11	The Dative case of nouns. "My working day".	4
12	The Instrumental case of nouns. Lexical topic "Library".	4
13	Numbers. Quantitative numbers. Ordinary numerators. The question "What time is it?" Lexical topic "Pharmacy".	4
14	Syntax. Simple sentences. Lexical topic "Body parts".	2
15	Direct speech. Direct language replacement is indirect. Dialogue. Lexical topic "We are treated at home". Final test	4
3 semester		
1	Nouns. Grammatical categories of nouns. Lexical topic "Temperament and professional activity".	2
2	Nouns. The Accusative case of nouns. Lexical topic "Doctor, society, state".	4
3	Nouns. The Genitive case of nouns. Lexical topic "Dental clinic".	4
4	Verb. The Present tense (1, 2 conjugations). Lexical topic "Avitaminosis, hypovitaminosis".	2
5	Verbs. The Past and the Future tenses. Verb aspects. Lexical topic "Dental bad habits".	6
6	The Dative Case of nouns. Lexical topic "Herbs in dentistry". Final test	2
4 semester		
1	The system of cases of nouns (generalization) Lexical topic "Terms in dentistry".	4
2	Principal meaning of perfective and imperfective verbs (generalization). Lexical topic «Character, temperament».	4
3	Imperfective Verbs. A prolonged action. A repeated action. Lexical topic «Medical psychology».	2
4	The use of perfective verbs in the Future tens. Complex sentence containing the conjunctions Коли, якщо. Lexical topic «Doctor in the modern world».	4
5	Unprefixed Verbs of motions. The Present and The Past tenses. Lexical topic "Child in dental clinic".	4
6	The Accusative case with verbs of motion. Lexical topic «Healthy food». Final test.	2
№	Type of IW	Recommended

		percentage distribution of hours allocated for 1W
1	Preparation for classroom lessons (studying theoretical material, working with educational literature, methodological recommendations, workbooks, etc.)	40%
2	Testing in the Google forms	10%
3	Preparation for the final control	20%
4	Working on the topics of the educational component that are provided for self-study.	30%
Topics of the educational component for self-study		
№	Topics	
1	The Ukrainian alphabet. Vowels and consonants. Soft consonants. Lexical topic “Courtesy formulas”.	
2	Gender of nouns. Lexical topic “Products”.	
3	Number of nouns. Lexical topic “Catering establishments”.	
4	Pronouns. Lexical topic “Kitchen”.	
5	Gender and number of adjectives. Lexical topic “Clothes”.	
6	The system of endings of the Accusative case of nouns. Lexical topic “Sport”.	
7	The system of endings of the Prepositional case of nouns. Lexical topic “Museum”.	
8	The system of endings of the Dative case of nouns. Lexical topic “Bus”.	
9	The system of endings of verbs (1 conjugation). Lexical topic “Metro”.	
10	The system of endings of verbs (2 conjugation). Lexical topic “On railway station”.	
11	The system of endings of the Genitive case of nouns. Lexical topic “My city”.	
12	The system of endings of the Prepositional case of nouns. Lexical topic “My new friend”.	
13	The system of endings of the Instrumental case of nouns. Lexical topic Lexical topic “My old friend”.	
14	Cardinal numerals. Quantitative numbers. Ordinary numerators. Lexical topic “My favorite book”.	
15	Possessive pronouns. Lexical topic “My favorite movie”.	
16	Conjugations of verbs (1 Conjugation). “My favorite actor”.	
17	Conjugations of verbs (2 Conjugation). Lexical topic “Traveling”.	
18	Verbs of motion in the Present tense. Lexical topic “Interesting place in my country”.	
19	Verbs of motion in the Past tense. Lexical topic “Food in my country”.	
20	Verbs of motion in the Future tense. Lexical topic “School in my country”.	
21	The Genitive case of nouns with the Numerals. Lexical topic «Human appearance».	
22	The Dative case and expression modality. Lexical topic «Dentistry in my country».	
23	The Prepositional case of nouns with prepositions. Lexical topic «Paediatric dentistry».	
24	The general Concept of Verb Aspects. Lexical topic «Traditional methods of treatment».	
25	Animate Nouns in the Accusative plural. Lexical topic “Homeopathic Medicine”.	
26	The use of the aspect pairs of some verbs (давати – дати, вставати – встати). Lexical topic «Nurse in dentistry».	
27	Complex sentence containing conjunctions Коли, як, де. Lexical topic “Guinness Book of Records and Dentistry”.	

Use of the PrExam platform in the study of this educational component and in preparation for the USQE	
Conditions for admission to the final control and the USQE	At each practical class, students are required to take a test on the PrExam educational platform on the relevant topic of the class. The passing criterion for a test task is at least 80% of correct answers.

	A student is allowed to take the final assessment and the USQE if they have no missed or unmade-up classes and their average score is at least 3.0 (having no more than 10% negative grades («2») out of the total number of classes is permitted).				
Requirements for working on the PrExam platform	The student must be a registered user of the platform PrExam https://prexam.kmu.edu.ua/ . The platform is used for testing students on the topics of the educational component, conducting examination testing, and preparing for the first and second stages of the USQE.				
Preparation for the first and second stages of the USQE: KROK 1; English Language Proficiency Test; KROK 2.	Students should use: - test databases on the PrExam platform https://prexam.kmu.edu.ua/ ; - educational module of the State Non-Profit Enterprise Testing Board https://test.testcentr.org.ua/ .				
Preparation for the second stage of the USQE: Objective Structured Practical (Clinical) Exam (OSP(C)E)	Not provided				
Evaluation system					
Assessment of the current progress of the student is carried out at each lesson by putting a grade on a four-point scale (5,4,3,2) in the academic performance journal. The grade for the practical class consists of the following components: - test control in the Google forms: 0 or 1 points, where «Passed» is 1 point and «Failed» is 0 points; - theoretical part: 0, 1, 2 points; - practical part: 0, 1, 2 points.					
Recommended regulations for conducting and criteria for assessing current academic performance					
Theoretical part		Practical part (performance of practical skills, manipulations, solving situational tasks, work with a workbook, etc.)		Test control in the Google forms	
Score	Descriptor	Score	Descriptor	Score	Descriptor
2	The student is fluent in educational material and terminology. The student expresses his/her thoughts correctly and meaningfully, gives comprehensive and accurate answers to the questions asked.	2	Accurately performs practical skills, manipulations, and solves tasks.	1	Test tasks are passed by 85-100%.
1	The applicant has a thorough knowledge, knows how to apply it in practice, but makes inaccuracies, some mistakes in the formulation of answers. Cannot express an opinion, but answers questions with prompts correctly.	1	Makes mistakes when performing practical skills, manipulations, and solving tasks.		
0	The student has gaps in knowledge on the topic. Instead of a clear meaningful definition, he/she explains the material at the household level. Does not give examples.	0	When performing practical skills, manipulations, solving tasks, makes significant and crucial mistakes.	0	Test tasks are passed with less than 85% of the marks
Form of control: «Credit» (the educational component is studied over several semesters) If an educational component is studied over several semesters and concludes with a «credit examination» the arithmetic average of grades from each intermediate credit examination of the previous semesters and the final semester is calculated, converted into a 200-point scale and an ECTS grade, and then recorded in the academic performance journal. In the academic performance record (for the final semester of the educational component), the following are entered: the points earned by the student on the 200-point grading system, the ECTS grade, the total number of hours for the educational component (across all semesters), and the semesters in which the educational component was studied. Grades A, B, C, D, E are awarded to students who have no missed or unmade-up classes and have an average current academic performance grade of at least 3.0 (no more than 10% of negative grades («2») of the total number of classes are allowed), which corresponds to 120 points according to a 200-point scale. The same entry is made in the student's individual study plan, with the mandatory inclusion of the number of hours, credits and the grade for the educational component on the ECTS scale. Teacher records a grade on the day of the credit examination. Fx* is assigned to a student if: - the number of «ab» (unattended classes without valid reason) or «2» grades DOES NOT exceed 50% of the total grades for the current academic performance; - the student has failed the exam (scored less than 50 points). F** is assigned to a student if: - the number of «ab» (unattended classes without valid reason) or «2» grades is 50% or more of the total grades for the current academic performance; - the student has failed the final control three times.					

The same entry is made in the student's individual study plan, with the mandatory inclusion of the number of hours (credits) and the points earned.

Assessment	Components	Arithmetic mean of grades for each class of all semesters	Conversion to a 200-point scale	Grade for the educational component in ECTS
Current academic performance	Classroom lessons (laboratory, seminar, practical classes, independent work)	5	200	A (passed)
		4.0-4.99	160-199	B, C (passed)
		3.0-3.99	120-159	D, E (passed)
		0-2.99	0-119	Fx, F (failed)

*according to the table «Scale of conversion of grades for current performance in a four-point system into a 200-point grading system for educational components that end with a Intermediate Credit Examination / Credit Examination»

Assessment of the individual work of a higher education student

Points for individual work (assignments) are credited to the student only upon the condition of successful completion, defense, public presentation (publication), and documentary confirmation of the work performed. The number of points awarded for various types of individual assignments depends on their scope and significance, but shall not exceed 12 points (as defined by the Regulation on the Organization of the Educational Process), which are added to the final grade for the educational component by decision of the Head of the Department. Furthermore, the maximum total score a student can receive for an educational component shall not exceed 200 points. Individual points for different types of activities are not additive and cannot be summed up.

Assessment	Components	The arithmetic mean of grades for each class	Conversion to a 200-point scale	Grade on the educational component on a 200-point scale
Current academic performance	Classroom lessons (laboratory, seminar, practical classes, independent work)	5	120	0-120
		4.0-4.99	96-119	
		3.0-3.99	72-95	
		0-2.99	0-71	
Exam	Examination testing on the PrExam platform	-	0-30	0-80
	Assessment of the level of theoretical knowledge	-	0-30	
	Assessment of the level of practical skills	-	0-20	
Overall final grade for the educational component				0-200

Grading system

University grading scale	ECTS grade	Descriptor	Awarding of credits
180 - 200	A	Excellent	Passed
170 - 179	B	Very Good	
160 - 169	C	Good	
141 - 159	D	Satisfactory	
120 - 140	E	Sufficiently	
100 - 119	Fx	Unsatisfactory with possible re-passing of final assessment	Failed
1 - 99	F	Unsatisfactory with the mandatory repeated study of discipline	

Information resources

Main literature	<p>1)Українська мова як іноземна для англомовних студентів-медиків: у 2 книгах. / С. М. Луцак, А.В. Ільків, Н.П. Литвиненко та ін. – К.: БСВ «Медицина», 2019. https://drive.google.com/file/d/1BIY_k-Ks4YnXSkiDfujhbsWPuWa_mxaZ/view?usp=sharing</p> <p>2) Yuri Shevchuk. Beginner's Ukrainian. Second edition/New York/2022. -446с https://drive.google.com/drive/folders/1XZzP3CoN7eSbKX76rvTEMddf3fidxwop</p> <p>3)Українська мова для іноземних студентів:посібник /Винник В.М., Гайда О.М., Драч І.Д. та ін. – Тернопіль:ТДМУ, 2020. – 288с. https://drive.google.com/drive/folders/1uy9fBingFqcfTuf56mWs0580kv-hWap</p>
Additional reading	<p>1. Даниленко Л. В. Українська мова як іноземна. Мова стоматолога. Частина 2: практикум для студентів – іноземних громадян І курсу спеціальності 221 «Стоматологія» вищих медичних закладів освіти / Л. В. Даниленко, С. А. Гнатенко. - Запоріжжя : ЗДМУ, 2022. - 266 с.</p> <p>2. .Нагорняк О.М. Українська мова : завдання для самостійної роботи для іноземних студентів 2 курсу англомовного відділення спеціальності 221 «Стоматологія»: навчальний посібник / Укладач: Нагорняк О.М. Львів: Львівський національний медичний університет імені Данила Галицького, 2023. -56 с.</p>
List of questions for the final control (theoretical and practical components)	<p>http://surl.li/xyvlsb https://sites.google.com/kmu.edu.ua/humanities-and-social-sciences/%D0%B3%D0%BE%D0%BB%D0%BE%D0%B2%D0%BD%D0%B0-%D1%81%D1%82%D0%BE%D1%80%D1%96%D0%BD%D0%BA%D0%B0-main-page</p>

Useful links	http://lcorp.ulif.org.ua/dictua
Methodological recommendations for preparing for classes	https://sites.google.com/kmu.edu.ua/humanities-and-social-sciences/metodological-guidelines_1 https://sites.google.com/kmu.edu.ua/humanities-and-social-sciences/%D0%B3%D0%BE%D0%BB%D0%BE%D0%B2%D0%BD%D0%B0-%D1%81%D1%82%D0%BE%D1%80%D1%96%D0%BD%D0%BA%D0%B0-main-page
Lecture notes (presentations)	not provided for in the educational program
Unions and associations by profile (stakeholders)	http://ngo.lnu.edu.ua/ukrainian-philologists-association/
International resources (stakeholders)	https://www.unipage.net/ru/6084/ekvtime_takaishvili_teaching_university
Feedback contacts	Flegontova Natalia Nikolaevna n.flegontova@kmu.edu.ua Lyalina Olga Alexandrovna o.lialina@kmu.edu.ua Vykhor Viktor Grigorovich y.vykhor@kmu.edu.ua

Syllabus was discussed and approved at the meeting of the department of August 27, 2025 (Protocol No. 1).