

ONTUSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ		 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department “Medical Biophysics and Information Technologies”		№ 35-11-2025
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Syllabus

Department “Medical Biophysics and Information Technologies”
Work program of the course “Information and Communication Technologies”
Educational program 6B10117 – «Stomatology»

1.	General information about the course		
1.1	Course code: ICT 1105	1.6	Academic year: 2025-2026
1.2	Course name: Information and Communication Technology	1.7	Year: 1
1.3	Prerequisites: -	1.8	Term: 1
1.4	Postrequisites: Project Activities and biostatistics	1.9	Number of credits (ECTS): 3
1.5	Cycle: General Education Subjects	1.10	Component: Mandatory component
2.	Course content		
Fundational concepts of information and communication technologies, including architecture of computer systems, types of software, database systems, data analysis and management, networking, cybersecurity, internet technologies, cloud technologies, multimedia technologies, smart technologies, AI fundamentals and its applications.			
3.	Form of summative assessment		
3.1	Testing 	3.5	Coursework
3.2	Writing	3.6	Essay
3.3	Oral	3.7	Project
3.4	OSPE / OSCE	3.8	Other (specify)
4.	Objective of the course		
To develop the ability to critically evaluate and analyze processes, methods of searching, storing, and processing information, and ways of collecting and transmitting information through digital technologies.			
5.	Learning outcomes		
LO1	Explain the purpose, content, and development trends of information and communication technologies, and justify the choice of the most suitable technology for solving specific tasks.		
LO2	Explain methods for collecting, storing, and processing information, and ways to implement information and communication processes.		
LO3	Describe the architecture of computer systems and networks, including the purpose and functions of key components.		
LO4	Utilize Internet resources, cloud services, and mobile applications for searching, storing, processing, and disseminating information.		
LO5	Apply software and hardware for computer systems and networks to collect, transmit, process, and store data.		
LO6	Analyze and justify the choice of methods and tools for information security.		
LO7	Develop data analysis and management tools for various activities using digital technologies.		
LO 8	Demonstrate the ability to apply the theory, methods, and principles of artificial intelligence in the use of basic intelligent software systems		
5. 1	Course LO	EP learning outcomes, which are related to the course learning outcomes	
	LO 1	LO5. Observes the rules of ethics, deontology and subordination, demonstrates interpersonal and communicative skills that lead to effective exchange of information and cooperation with patients, their families and medical professionals.	
	LO 2		
	LO 8		
	LO 3	LO7. Supports continuous personal and professional growth, constantly improves the quality of medical care based on self-assessment and lifelong learning.	
	LO 4		
	LO 5	LO8. Applies electronic databases of the healthcare system of the Republic of Kazakhstan, providing documentation of the processes of providing medical services	
LO 6			
LO 7			

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6.	Course Details					
6.1	Venue: SKMA, building No.1, Department “Medical Biophysics and Information Technologies”. Al-Farabi Square - 1, 5 th floor, rooms No. 500-511. Phone 39-57-57, add 1063.					
6.2	Number of hours	Prac. lessons	SIWT	SIW		
		30	9	51		
7.	Information about teachers					
№	Full name		Academic degree and position		Email address	
1	Ivanova Marina Borisovna		PhD, professor		marina-iv@mail.ru	
2	Ormanov Nurlan Kerimbekovich		PhD, professor		nurlanormanov2@gmail.com	
3	Berdiyeva Meruyert Aimambetovna		PhD,ass. prof.		meruert_berdieva@mail.ru	
4	Abdrimova Zakhira Maratovna		Master's degree, senior teacher		zakira75@mail.ru	
5	Imanbaeva Maral Amanbaevna		Master's degree, senior teacher		maral_81_19@mail.ru	
6	Maulenova Akmaral Aitbekovna		Master's degree, senior teacher		maral_tasken@mail.ru	
7	Abdrahmanova Zhanil Zhusupovna		Master's degree, senior teacher		zhanil15@mail.ru	
8	Baidildaeva Akmaral Sagintaevna		Master's degree, senior teacher		68.akmaral@mail.ru	
9	Esenkulova Nesibeli Shaizandakyzy		Master's degree, senior teacher		manieva19@mail.ru	
8.	Thematic plan					
Week	Topic	Brief content	Course LO	Number of hours	Forms/ Methods/ Technologies of teaching	Forms/ Methods of assessment
1	Practical class/ Introduction to computer systems. Architecture of computer systems	Review of computer systems. Evolution of computer systems. Architecture and components of computer systems. Use of computer systems. Data representation in computer systems. Calculation of metrics of productivity of computer system: speed, efficiency, energy costs, Amdahl's law, CPU time.	LO 1 LO 2 LO 3 LO 4 LO 5	2	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
	SIWT/SIW Consultation on completing the individual assignment / Development of flowcharts of computer devices. Stage 1.	Basic elements of flowcharts. Rules for building flowcharts. Examples of flowcharts/ Creating flowcharts describing the operation of various computer devices.	LO 3 LO 4 LO 5	1/5	/Demonstration, instruction/ computer training, Flowchart software	Flowchart /According to the checklist
2	Software. Operating systems. Human-computer interaction	Software. Types of the software, purpose and characteristic. Basic concepts of OS. Evolution of operating systems. Classification of operating systems, including	LO 1 LO 2 LO 4 LO 5 LO 7	2	Discussion, demonstration, instruction, completing a practical assignment/	MCQ, practical assignment, participation in discussion

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		for mobile devices. Classification of desktop applications. User interface as means of human-computer interaction. Usability of interfaces. Types of interfaces: command line interface, text interface, graphic interface. Determination of properties of an operating system. Operation with files and directories.			Presentation, computer training, specialized software	/According to the checklist
	SIWT/SIW/ Consultation on completing the individual assignment /Collecting, the analysis and structuration of data in the professional environment.	Design and development of a multi-table database: creating tables (including lookup fields, OLE objects, input masks), queries, forms, reports (MS Access). /Design and development of an individual multi-table database related to the future professional field.	LO 3 LO 4 LO 5	1/5	Demonstration, instruction / Computer training, MS Access	Database /According to the checklist
3	Practical class/ Database systems	Development of database structure, creation of tables, forms, queries, reports (MS Access).	LO 1 LO 2 LO 4 LO 5 LO 7	2	Completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
4	Practical class/ Database systems	Bases of database systems: concept, characteristic, architecture. Development of database structure, creation of tables, forms, queries, reports (MS Access).	LO 1 LO 2 LO 4 LO 5 LO 7	2	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
	SIWT / SIW / Consultation on completing the individual assignment /Collecting, the analysis and structuration of	Design and development of a multi-table database: creating tables (lookup fields, OLE objects, input mask), queries, forms, reports (MS Access). /Design and development of an individual multi-table database related to the future	LO 4 LO 5 LO 7	1/5	Demonstration, instruction / Computer training, MS Access	Database /According to the checklist

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	data in the professional environment. Stage 2.	professional field.				
5	Practical class/ Data analysis.	Basics of Data Analysis. Methods of data collection and data classification.	LO 1 LO 2 LO 4 LO 5 LO 7	2	Discussion, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
	SIWT / SIW / Consultation on completing the individual assignment /Description of network topology of the healthcare facility.	Requirements analysis based on the description of the healthcare facility. Designing the network topology. Documenting and justifying the decisions.	LO 1 LO 3 LO 4 LO 5	1/5	Demonstration, instruction/ computer training, 10-Strike Network Diagram	Report and flowchart /According to the checklist
6	Data management	Processing of numerical information, editing formulas and creation of charts in spreadsheet editors (MS Excel).	LO 1 LO 4 LO 5 LO 6 LO 7	2	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
7	Practical class/ Cybersecurity	Security risks of information and their classification. Malicious applications. Measures and means of information protection. The acts of the Republic of Kazakhstan governing legal relations in the sphere of information security. Electronic digital signature. Encryption. Settings of the Firewall program element of the computer network for network traffic monitoring and filtering. Working with the various antivirus programs.	LO 1 LO 2 LO 4 LO 5 LO 7	2	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
	Midterm control 1	Introduction to computer	LO 1	1/5	Computer	Evaluation is

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	/Preparation for midterm control 1	systems. Architecture of computer systems. Software. Operating systems. Human-computer interaction. Database systems, Data analysis. Data management. Networks and telecommunications. Cybersecurity. Internet technologies.	LO 2 LO 3 LO 4 LO 5 LO 6 LO 7		testing (MCQ)	carried out using a 100-point scale.
8	Practical class/ Networks and telecommunications.	End devices, data transfer devices, transmission medium. Types of networks. Stack protocols: TCP/IP, OSI. IP addressing. Local and wide area networks. Wire and wireless network technologies. DHCP protocol. Technologies of connection to the Internet. Creation of a simple network configuration. IP addressing.	LO 1 LO 2 LO 4 LO 5	2	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
9	Practical class/ Multimedia technologies	Representation text, audio, video and graphical information in a digital format. Basic technologies for compression of information. 3-D representations of the virtual world and animation. Instruments of development of multimedia applications. Use of multimedia technologies for planning, descriptions of business processes and their visualization. Creating presentations (Canva)	LO 1 LO 4 LO 5	2	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
	SIWT / SIW / Consultation on completing the individual assignment /Creation of video files with use of programs: VideoPad, CapCut, Windows Movie Maker, etc.	Choose a current medical topic. Research and script. Create a storyboard. Use video editing software. Record an edit. Publish.	LO 4 LO 5	1/5	Demonstration, instruction / Computer training, video editing software (VideoPad, CapCut, Windows Movie Maker)	Video file and project / According to the checklist
10	Internet technologies	Basic Internet concepts. The Uniform Resource Locator (URL), its assignment and	LO 1 LO 4 LO 5	2	Discussion, demonstration, instruction,	MCQ, practical assignment,

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		components. DNS server. Web technologies. E-mail. Message format. SMTP, POP3, IMAP protocols. Creation of a website using the free website builder (Tilda or Mobirise).			completing a practical assignment/ Presentation, computer training, specialized software	participation in discussion / According to the checklist
11	Practical class/ Smart technologies	Internet of things. Big data. Technology Block Chain. Use of Smart-services. Green technologies in ICT. Teleconferences. Telemedicine.	LO 4 LO 5 LO 8	2	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
	SIWT / SIW / Consultation on completing the individual assignment /Creation of video files with use of programs: VideoPad, CapCut, Windows Movie Maker, etc.	Choose a current medical topic. Research and script. Create a storyboard. Use video editing software. Record an edit. Publish.	LO 1 LO 4 LO 5 LO 8	1/4	Demonstration, instruction / Computer training	Report /According to the checklist
12	Practical class/ Cloud and mobile technologies	Data centers. Tendencies of development of the modern infrastructure decisions. Principles of cloud computing. Technologies of virtualization. Web service in the Cloud. Main terms and concepts of mobile technologies. Mobile services. Standards of mobile technologies. Introduction to Google Docs and Microsoft Office Web Apps cloud services. Creation accounts to work with cloud services. Study of operation modes associated with file storage, sharing and processing. Use of mobile technologies for receiving an	LO 4 LO 5 LO 8	2	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist

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		information access. GPS navigators.				
13	Practical class/ Introduction to AI	Basic concepts of AI. History and development of AI. Knowledge representation models. Fundamentals of AI research. Ethical Considerations in AI	LO 4 LO 5 LO 8	2	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
	SIWT / SIW / Consultation on completing the individual assignment /AI and Society Comparative analysis of AI tools	Studying recent articles and publications on the latest achievements in artificial intelligence. Conducting research and creation a video report about impact of AI on various aspects of public life. Comparing the functionality and effectiveness of various artificial intelligence tools and platforms.	LO 4 LO 5 LO 8	1/4	Demonstration, instruction / Computer training, interview	Report /According to the checklist
14	Practical class/ Introduction to AI tools and platforms. Large Language Models. Generative AI tools.	Studying different AI tools and platforms. Practical use of various tools and platforms for working with AI. Introduction to Large Language Models (LLM). Using LLMs for text generation and summarization. Overview of Generative AI tools. Creating generative art and music using AI tools. Studying possible experiments with various generative art tools to create images and music.	LO 4 LO 5 LO 7	2	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
	Midterm control 2 /Preparation for midterm control 2		LO 1 LO 2 LO 3 LO 4 LO 5 LO 6 LO 7 LO 8	1/4	Computer testing (MCQ)	Evaluation is carried out using a 100-point scale.
15	Practical class/ Information technologies in medicine and	The software for the solution of tasks of the specialized professional sphere. Modern IT trends in medicine and	LO 1 LO 4 LO 5	2	Discussion, demonstration, completing a	MCQ, practical assignment, participation

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	pharmacy. Prospects of development of ICT	pharmacy. Use of search engines and electronic resources in the professional sphere. Using STATISTICA software for processing medical and pharmaceutical data. Prospects of development in the sphere of the IT market: development of the free software.			practical assignment/ Presentation, computer training,	in discussion / According to the checklist
	Exam preparation and conducting			9		
9.	Teaching Methods and Assessment Forms					
9.1	Practical class	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software MCQ, practical assignment, participation in discussion / According to the checklist				
9.2	SIWT / SIW	Flowchart, Database, Report and flowchart, Report, Video file and project, Video report with research results / According to the checklist				
9.3	Midterm control	Computer Testing (MCQ). Evaluation is carried out using a 100-point scale.				
10.	Assessment criteria					
10.1.	Criteria for assssing course learning outcomes					
LO #	Learning outcome	Unsatisfactory	Satisfactory	Good	Excellent	
LO1	Explain the purpose, content, and development trends of information and communication technologies, and justify the choice of the most suitable technology for solving specific tasks	Unable to explain the purpose and content of ICT. Incorrectly identifies development trends. Unable to justify the choice of technology for solving specific tasks.	Can explain the purpose and content of ICT in general terms. Has a basic understanding of development trends, but with some inaccuracies. Justifies the choice of technology at a basic level.	Explains the purpose, content, and main trends of ICT well. Able to justify the choice of technology for solving tasks, though with some minor inaccuracies.	Clearly and accurately explains the purpose, content, and development trends of ICT. Confidently and convincingly selects the most suitable technologies for solving specific tasks	
LO2	Explain methods for collecting, storing, and processing information, and ways to implement information and communication processes	Incorrectly explains methods for collecting, storing, and processing information. Does not understand how to implement information and communication processes.	Explains the methods in general terms but with errors. Can describe the basic ways of implementing processes, though with some shortcomings.	Explains the methods and ways to implement processes well, though some aspects may require clarification.	Fully and accurately explains methods for collecting, storing, and processing information. Confidently describes ways to implement processes.	
LO3	Describe the	Unable to	Has a general	Describes the	Clearly and	

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	architecture of computer systems and networks, including the purpose and functions of key components	accurately describe the architecture of computer systems and networks. Makes errors in identifying the purpose and functions of components.	understanding of system and network architecture, but makes mistakes. Can describe key components, though not always accurately.	architecture, purpose, and functions of key components well, though there are minor inaccuracies.	accurately describes the architecture of computer systems and networks, as well as the functions of all key components.
LO4	Utilize Internet resources, cloud services, and mobile applications for searching, storing, processing, and disseminating information	Unable to effectively utilize internet resources, cloud services, and mobile applications.	Can use these tools at a basic level but with limited effectiveness.	Confidently uses internet resources and applications, though there is room for improvement.	Effectively and confidently uses all listed tools to accomplish tasks.
LO5	Apply software and hardware for computer systems and networks to collect, transmit, process, and store data	Unable to properly use software and hardware.	Can use software and hardware, but with limited effectiveness.	Confidently applies software and hardware, though there are minor shortcomings.	Fully proficient in applying software and hardware to accomplish all tasks.
LO6	Analyze and justify the choice of methods and tools for information security	Unable to analyze or justify the choice of methods and tools.	Can perform a basic analysis and justification, but with errors.	Analyzes and justifies choices well, though there are some shortcomings.	Thoroughly analyzes and convincingly justifies the choice of the most appropriate methods and tools.
LO7	Develop data analysis and management tools for various activities using digital technologies	Unable to develop effective tools for data analysis and management.	Can develop basic tools, but with limited functionality.	Develops functional tools, though improvements.	Develops high-quality and effective tools for data analysis and management.
LO8	Demonstrate the ability to apply the theory, methods, and principles of AI in the use of basic intelligent software systems	Does not demonstrate understanding or ability to apply AI theory and methods.	Understands basic principles but struggles to apply them.	Confidently applies AI theory and methods, though with some inaccuracies.	Fully and accurately applies AI theory, methods, and principles in the use of software systems.

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10.2. Criteria for assessing

Checklist for assessing practical class

Form of Work	Criterion	Description	Points (max 100)
Testing (20 points)	Quality of Answers	All answers are correct	17-20
		Most answers are correct, but there are errors	12-16
		Partially correct answers	7-11
		Many incorrect answers	0-6
Completion of Individual Computer Task (60 points)	Completeness of Task	Fully completed with correct results	50-55
		Completed, but with minor errors	35-49
		Partially completed with significant errors	20-34
		Task completed partially or with multiple errors	0-19
	Adherence to Deadlines	On time	5
		Late	0
Participation in Discussion (20 points)	Activity in Participation	Active participation, constructive comments	5-10
		Participation with minimal comments	3-4
		Passive participation or lack of constructive comments	0-2
	Quality of Argumentation	Clearly formulated and justified arguments	5-10
		Arguments present but not always justified	3-4
		Arguments absent or unconvincing	0-2

Checklist for assessing SIW/SIWT

SIW 1

Form of Work	Criterion	Description	Points (max 100)
Flowchart of computer devices (Lucidchart tool) (40 points)	Accuracy of the Flowchart	The flowchart is fully accurate and reflects all necessary components and processes	20-25
		The flowchart is mostly accurate, but there are minor errors	15-19
		The flowchart has significant errors, with some components and processes missing	5-14
		The flowchart is inaccurate or incomplete	0-4
	Readability and Design	The flowchart is clearly designed in Lucidchart, all elements are easily readable and logically connected	10-15
		The flowchart is generally readable, but there are minor design flaws	5-9
		Readability and design hinder understanding of the flowchart	0-4
Database (MS Access) (60 points)	Tables	All necessary tables are created, properly structured, and relationships between tables are established	15-20
		Tables are created, but there are errors in structure or not all relationships are correctly set	10-14
		Tables are partially created, with significant errors in structure and relationships	5-9
		Tables are missing or incorrect	0-4
	Forms	All necessary forms are created, functional, and user-friendly	7-10

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		Forms are created, but their functionality or design needs improvement	4-6
		Forms are partially created or incorrectly designed	0-3
	Queries	Queries are correct, efficiently retrieve and process data	10-15
		Queries are created but work inefficiently or contain errors	5-9
		Queries are partially created or incorrect	0-4
	Reports	Reports are created and accurately display query results and data	10-15
		Reports are created, but their content or format needs improvement	5-9
		Reports are missing or incorrect	0-4

SIW 2

Form of Work	Criterion	Description	Points (max 100)
Report "Searching for information related to specialty on the Internet, using cloud services for data storage and data processing" (MS Word) (100 points)	Searching for Specialty-Related Information	Relevant information on current medical topics and educational resources is found	30-40
		Information is mostly relevant but has minor omissions	20-29
		Search is incomplete or contains minor errors	10-19
		Search is not done or is completely incorrect	0-9
	Using Cloud Services for Data Storage	Account is created, cloud collaboration is organized, and requirements are met	14-20
		Account is created but has minor issues in collaboration	7-13
		Cloud work is partially completed or has errors	0-6
	Using Cloud Services for Data Processing	Data analysis and visualization are done using Google Sheets	30-40
		Data analysis and visualization are done, but contain errors	20-29
		Data analysis is partial or has significant errors	10-19
		Data analysis is not done or is done incorrectly	0-9

SIW 3

Video File (VideoPad, CapCut, Windows Movie Maker, etc.) (100 points)	Topic Choice and Research	Topic is current, research is thorough, and script is written	30-40
		Topic is chosen, but research or script needs improvement	20-29
		Topic is chosen, but research is superficial and script has errors	10-19
		Topic is not chosen or research and script are completely missing	0-9
	Creation of Storyboard	Storyboard is detailed and reflects the content of the video	14-20
		Storyboard is created but requires improvements	7-13
		Storyboard is partially done or does not reflect the content of the video	0-6
	Use of Video Editing Software	Video is edited professionally, with good quality recording and editing	30-40
		Video is edited with minor errors	20-29
		Video is edited, but quality of recording or editing is poor	10-19

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	Video is not edited or edited poorly	0-9
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Check List for midterm control

Computer testing

The testing is conducted on a computer. The test consists of 50 questions. Evaluation is carried out using a 100-point scale. The duration of the test is 50 min.	Max 100	Min 50
	90-100	Excellent
	70-89	Good
	50-69	Satisfactory
	<50	Unsatisfactory

A multi-point system of knowledge assessment

Grading by letter system	Digital equivalent of points	Percentage	Assessment according to the traditional system
A	4,0	95-100	Excellent
A -	3,67	90-94	
B +	3,33	85-89	
B	3,0	80-84	Good
B -	2,67	75-79	
C +	2,33	70-74	
C	2,0	65-69	satisfactorily
C -	1,67	60-64	
D+	1,33	55-59	
D-	1,0	50-54	unsatisfactory
FX	0,5	25-49	
F	0	0-24	

11. Learning resources

Electronic databases

№	Title	Link
1	SKMA Electronic Library	https://e-lib.skma.edu.kz/genres
2	Republican Interuniversity Electronic Library	http://rmebrk.kz/
3	«Aknurpress» Digital Library	https://www.aknurpress.kz/
4	Electronic library "Epigraph"	http://www.elib.kz/
5	Epigraph - portal of multimedia textbooks	https://mbook.kz/ru/index/
6	Information and legal system "Zan"	https://zan.kz/ru
7	ЭБС IPR SMART	https://www.iprbookshop.ru/auth
8	Medline Ultimate EBSCO	https://surl.li/rcdthz
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Laboratory physical resources

- Desktop computers;
- Networking equipment;
- Storage devices;
- Whiteboard;
- Projector;
- Mobile devices (tablets and smartphones).

Software

- Microsoft Office (Word, Excel, Access, Power point);
- Lucidchart tool;
- Tild website builder;
- Canva tool;
- Strike Network Diagram tool;
- VideoPad, CapCut, Windows Movie Maker, etc.;
- AI tools;
- STATISTICA

Main Literature

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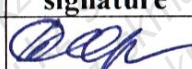
12. Course Policy and Requirements

1. **Attendance:** Regular attendance is mandatory. Students must attend at least 80% of the classes to qualify for the final examination. Participation in all scheduled activities, including practical tasks and SIWs is essential.
2. **Assignments and Projects:** All assignments and projects must be submitted on time. Late submissions will incur penalties unless prior arrangements have been made with the instructor. Assignments must meet the specified criteria and be submitted in the required format.
3. **Examinations and Assessments:** Two midterm assessments will be conducted during the semester, on the seventh and fourteenth weeks, respectively. Passing these midterm assessments is mandatory for eligibility to sit for the final exam. The results of the midterm assessments will be sent to the Dean's Office in the form of a report at the end of the assessment week. Both midterm controls will be conducted under strict examination conditions, and any form of academic dishonesty will result in severe consequences.
4. **Grading Policy:** The final exam grade will be calculated as the sum of the current assessment grade and the final exam grade. The current assessment includes grades for each practical class, completion of student independent work, and results of midterm controls, accounting for 60% of the overall grade. The final exam accounts for 40% of the overall grade. To pass the course, students must achieve a minimum overall score of 50%.
5. **Communication:** Students should regularly check the course's online platform (Platonus, Whatsapp chat) for announcements, assignment details, and other important information. Queries and communications should be directed through the official communication channels provided by the instructor.
6. **Academic Integrity:** Students are expected to uphold the highest standards of academic integrity. Plagiarism, cheating, and other forms of academic dishonesty will not be tolerated and will result in disciplinary action.
7. **Technology Requirements:** Students must have access to a computer with the necessary software installed. Reliable internet access is also required for completing online assignments and participating in virtual classes.
8. **Behavioral Requirements:** Students are expected to show respect and courtesy towards both the instructor and their classmates. Tolerance and appropriate behavior in the learning environment are required. Medical students must wear white coats and medical caps during classes.
9. **Support and Resources:** If you encounter difficulties with the course content or assignments, seek help early. Resources such as office hours, tutoring sessions.

13. Academic policy based on the moral and ethical values of the academy

<https://surl.li/hgqivx>

14. Approval, ratification and revision

Date of Approval	Protocol	Head of the LIC	signature
« 04 » 06 2025 y.	№ 4	Darbicheva R. I.	

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Date of Ratification	Protocol	Head of the Department	
« <u>28</u> » <u>05</u> 202 <u>5</u> y.	№ <u>12A</u>	Ivanova M.B.	
Date of Approval of GE AC	Protocol	Chair of the AC	
« <u>13</u> » <u>06</u> 202 <u>5</u> y.	№ <u>11</u>	Nurzhanbayeva Zh.O.	
Date of Revision	Protocol	Head of the Department	
« ____ » ____ 202__ y.	№ ____		
Date of Revision of GE AC	Protocol	Chair of the AC	
« ____ » ____ 202__ y.	№ ____		

