10.1KZ	ONTÚSTIK-OAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	SKMA	MEDICAL	кая академия»
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Syllabus

Department "Medical Biophysics and Information Technologies"
Work program of the course "Information and Communication Technologies"
Educational program 6B10118 – "Medical and preventive care"

(1, °	General inf	ormation about the course	V2 9	4 40 60 M. T 34 40.	
1.1	Course code	:: ICT 1105	1.6	Academic year: 2025-2026	
1.2	Course name Information	e: and Communication Technology	1.7	Year: 1	
1.3	Prerequisites		1.8	Term: 1	
1.4		es: Project Activities and biostatistics	1.9	Number of credits (ECTS): 3	
1.5		eral Education Subjects	1.10	Component: Mandatory component	
2.	Course con		F Va.	60 114 1 3 Au vs. 600	
system interne	s, types of so	ftware, database systems, data analys	is and m	gies, including architecture of computer nanagement, networking, cybersecurity es, smart technologies, AI fundamenta	
3.	Form of sur	mmative assessment	111.10	1 5 th 13. 60 1 th 1 3. th	
3.1	Testing V	Vo. 60 717:11 94, Vs.	3.5	Coursework	
3.2	Writing	J. Vs. 80, 11:4 T 3 5/21 Vs.	3.6	Essay	
3.3	Oral	Th. Vs. 60, 11/4, 1 3 The	3.7	Project	
3.4	OSPE / OSC	TE CA 70. 80 111 1 141	3.8	Other (specify)	
4.0	Objective o	f the course	11, 00.	3, My 3, My	
LO2	Explain met information	and communication processes.	rocessing	information, and ways to implement	
LO3	key compone	ents.	10 3:00	s, including the purpose and functions of	
LO4		net resources, cloud services, and mobinating information.	ile applic	eations for searching, storing, processing	
LO5	store data.	m. Kr 26 W. Jieg 4n. K	1 54	etworks to collect, transmit, process, an	
LO6	Analyze and	justify the choice of methods and tool	s for info	rmation security.	
LO7	/	a analysis and management tools for va			
LO 8		the ability to apply the theory, methodintelligent software systems	ods, and j	principles of artificial intelligence in th	
5.1	Course LO	EP learning outcomes, which are	related to	o the course learning outcomes	
KUSIE	LO1 LO2 LO3 LO4	LO1 It allows for critical analysis	and prac d knowl	ctical application of reliable, up-to-date edge in the fields of socio-behaviora	
1.K1.K1	LO3 Mastering information technologies, effectively using information in the field of ensuring the sanitary and epidemiological well-being of the population to introduce new approaches within the scope of their expertise, using artificial intelligence and digitalization to ensure documentation of production processes.				

10:12	ONTÚSTIK-OAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	SKMA -1979	MEDICAL	инская академия»
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3KI	Kill Jg.	LO7 kno LO8 artif	wledge of soc	ates a broad outlool ial and natural science, and effectivel onment.	ences, di	gital te	chnologies and	the basics of	
6	/	Course Details	11 N 1 D	4 60 (1: 11	5 ^K	MO. 19	C C T 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
6.	4			partment "Medical l No. 500-511. Phone				nologies". Al	
6.	2		Prac. lessons	SIW		7, add	SIW	11.1.	
S	. 41	of hours	30	1 3k no 96	111.10	11	510	111.11.5	
7		Information about	teachers	1 St. Via	CO YI	1.1	chi vo.	SONTIFICA	
<u>0</u>	20:	Full name	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	Academic degree	and posi		Email ac		
1		nova Marina Boriso	- 11, 2,	PhD, professor	Ma.		marina-iv@mail.		
2		manov Nurlan Kerin	4 4 1	PhD, professor	L'Wa		nurlanormanov2		
1		rdiyeva Meruyert A		PhD,ass. prof.	ST	_ (A1	meruert berdiev		
		drimova Zakhira Ma		Master's degree, se			zakira75@mail.r	u Shi Ma	
	Ima	anbaeva Maral Ama	nbaevna	Master's degree, se	enior teac	her	maral_81_19@n	nail.ru	
	A /	ulenova Akmaral A	V/ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Master's degree, so			maral_tasken@n	\. \.	
7e\	Ab	drahmanova Zhanil	Zhusupovna	Master's degree, se		- 4"	<u>zhanil15@mail.r</u>	u V	
3	Bai	idildaeva Akmaral S	agintaevna	Master's degree, so	enior tead	cher	68.akmaral@mail.ru		
8		Thematic plan	. Vs. So.	W. T. chi	19. 60	W.F.	7 3 KII. VS	· 000 14	
We	ek	Topic	Bri	ef content	Course	Number of hours	Forms/ Methods/ Technolog ies of teaching	Forms/ Methods of assessmen	
11. 11. 11. 11. 11. 11. 11. 11. 11. 11.	Sky Sky	Practical class/ Introduction to computer systems. Architecture of computer systems SIWT/SIW Consultation on	Evolution of Architecture of computer representation systems. Call of production system: spenergy cost CPU time. Basic elements	computer systems. computer systems. and components systems. Use of systems. Data on in computer culation of metrics vity of computer peed, efficiency, s, Amdahl's law, ents of flowcharts. uilding flowcharts.	LO 1 LO 2 LO 3 LO 4 LO 5	1/5	Discussion, demonstratio n, instruction, completing a practical assignment/ Presentation, computer training, specialized software /Demonstration,instruction	MCQ, practical assignment, participation in discussion According to the checklist Flowchart /According	
	λO .	completing the		flowcharts/	LO 5	1 0	/ computer	to th	
sky sky	s. ed	individual assignment / Development of flowcharts of computer devices. Stage 1. Software.	~ V / * \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		LO 1	ogiedi egnik	training, Flowchart software Discussion,	checklist MCQ,	

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skusiegi skusiegi kusiegi kusiegi	computer interaction	of OS. Evolution of operating systems. Classification of operating systems, including 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	LO 5 LO 7	Sqn's	completing a practical assignment/ Presentation, computer training, specialized software	participation in discussion /According to the checklist
SK SKING SKING SKING SKING	SIWT/SIW/ Consultation on completing the individual assignment /Collecting, the analysis and structuration of data in the professional environment.	an operating system. Operation with files and directories. 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	Demonstratio n, instruction / Computer training, MS Access	Database /According to the checklist
kugis squik	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	1 S	Completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
L 4 SK J.K.L SKING. E SKING. E	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	Arna. Arna. Arna. Arna. Arna. Arna. Arna.	Discussion, demonstratio n, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
1. K1. K1. K1. K1. K1. K1. K1. K1. K1. K	SIWT / SIW / Consultation on completing the individual assignment	Design and development of a multi-table database: creating tables (lookup fields, OLE objects, input mask), queries, forms, reports (MS Access).	LO 4 LO 5 LO 7	1/5 SKIND	Demonstratio n, instruction / Computer training, MS Access	Database /According to the checklist

Syllabus of the course "Information and Communication Technologies"

YNY S Y SKUS.	/Collecting, the analysis and structuration of data in the professional environment. Stage 2.	/Design and development of an individual multi-table database related to the future professional field.	SKUS'S	Tugick giegni	osedniki	Sking edin's
sking.	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	du.kl	Discussion, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
Skug equik	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(1)	Demonstratio n,instruction/ computer training, 10- Strike Network Diagram	Report and flowchart /According to the checklist
Skusieg Skusieg	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	kr2.	Discussion, demonstratio n, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
SKUS EGN N	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	LO 1 LO 2 LO 4 LO 5 LO 7	1 skna. skna. skna.	Discussion, demonstratio n, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist

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THO!	1.800 MIK KI 50	filtering. Working with the various antivirus programs.	Ug. O	90,70	IT SKWO	sieggnik
s. skus.	Midterm control 1 /Preparation for midterm control 1	Introduction to computer 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	1/5	Computer testing (MCQ)	Evaluation is carried out using a 100-point scale.
kwa egin k	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	d.2 edu	Discussion, demonstratio n, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
1. KL 1. KL	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	LO 1 LO 4 LO 5	krigi krigi krigi krigi krigi krigi krigi	Discussion, demonstration, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
sqn. is skus skus skus skus sk	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	Demonstratio n, instruction / Computer training, video editing software (VideoPad, CapCut, Windows Movie Maker)	Video file and project / According to the checklist
10	Internet	Basic Internet concepts. The	LO 1	1.2	Discussion,	MCQ,

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«Оңтүстік қазақстан медицина академиясы» Ақ		АО «Южно-Казахстанская медицинская академия»	1

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g.edu.k gr.kr. gkr.kr.	technologies	Uniform Resource Locator (URL), its assignment and 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).	LO 4 LO 5	Skus Jugiek	demonstratio n, instruction, completing a practical assignment/ Presentation, computer training, specialized software	practical assignment, participation in discussion / According to the checklist
sedu. Kr. skr. skr. skr. skr. skr. skr. skr. sk	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	du ² edu a.edu skriri skriri	Discussion, demonstratio n, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
Kura 1 Skus 1 Sk	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		Demonstratio n, instruction / Computer training	Report /According to the checklist
A 12 miles of the second of th	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	LO 4 LO 5 LO 8	a.edi kina.edi kina.edi na.edi skina.	Discussion, demonstratio n, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist

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Sking	13. eduluik X	technologies for receiving an information access. GPS navigators.	Wg's	egn,	1. K. 1. Skulov	9.60 6971
	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	zedu Markinski Skrisk S	Discussion, demonstratio n, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
du.kl du.kl diedu.k kna.ed kna.ed	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 Skin Skin Skin Skin Skin Skin Skin Skin	Demonstratio n, instruction / Computer training, interview	Report /According to the checklist
LY14	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	kus skus skus skus skus skus skus skus	Discussion, demonstratio n, instruction, completing a practical assignment/ Presentation, computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
edu na.edu skrna.e 1 skrna	Midterm control 2 /Preparation for midterm control 2	edu krasedu kraskusesed na edu krasedu kraskusesed skura edu kraskusesedu kraskusesed skura edu kraskusesedu kraskusesed	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	3K1	Discussion, demonstratio n, completing a	MCQ, practical assignment, participation

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a.edu.k.	pharmacy. Prospects of development of ICT	pharmacy. Use engines and resources in the sphere. Using S software for medical and ph data. Prospects of in the sphere of th development of software.	TATISTICA processing armaceutical development e IT market:	practical assignme Presentat computer training,	ion, to the				
Ma.	Exam preparation a	and conducting	1 dt 20. 6	9	13. 00 //				
9.		and Assessment F		60 11.K. 1	K1, 50, 00, 11				
9.1 Practical class Discussion, demonstration, instruction, completing a pra Presentation, computer training, specialized software MCQ, practical assignment, participation in discussion / checklist				According to the					
9.2	17 H V3.	Flowchart, Database, Report and flowchart, Report, Video file and project, Video report with research results / According to the checklist							
9.3	Midterm control		(MCQ). Evaluation	is carried out using	a 100-point scale.				
0.10.0	Assessment criteri		3 Thy 3. 30	K S. M.	3.0 gg, Kr				
10.1.		ng course learning	outcomes	90 K 2, 12	11, 3 is 90. Kr				
LO#	Learning outcome	Unsatisfactory	Satisfactory	Good	Excellent				
LOIN Allina	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.	purpose, content, and main trends of ICT well. Able to justify the choice of technology for solving tasks, though with some minor inaccuracies.	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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10.2.	software systems Criteria for assessi	ing	0. 60,11.1	1. 24 00.00	J. H. St.
	software systems	Will at at a	0 07	VF VO. 00.	
LO8	Demonstrate the ability to apply the theory, methods, and principles of AI in the use of basic intelligent	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.
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.
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.	justifies choices well, though there are some shortcomings.	Thoroughly analyzes and convincingly justifies the choice of the most appropriate methods and tools.
LOS	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.
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.	confidently uses all listed tools to accomplish tasks.
edn'in Kr eku Kr eku	architecture of computer systems and networks, including the purpose and functions of key components	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.	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.

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Form of Work	Criterion	Description	Points (max 100)
700 A	Jo The S. Miles	All answers are correct	17-20
Testing (20 points)	Quality of Answers	Most answers are correct, but there are errors	12-16
les 2)	Quality of Allswers	Partially correct answers	7-11
THE SHALL	3. Op. 141	Many incorrect answers	0-6
	11. 33. 300 TK	Fully completed with correct results	50-55
ompletion of Individual Computer Task (60 points)	Completeness of	Completed, but with minor errors	35-49
	Task	Partially completed with significant errors	20-34
	12 21 KUI 3. 00	Task completed partially or with multiple errors	0-19
	Adherence to	On time	
	Deadlines	Late	0 0 0
2. My 3:00	Do the 2 st Ruis	Active participation, constructive comments	5-10
SE CONTRACTOR	Activity in	Participation with minimal comments	3-4
Participation Discussion (20 points)	Participation	Passive participation or lack of constructive comments	0-2
rtici Disc (20 1	Quality of	Clearly formulated and justified arguments	5-10
TE O	Quality of	Arguments present but not always justified	3-4
in Pin. Kr	Argumentation	Arguments absent or unconvincing	0-2

Checklist for assessing SIW/SIWT

SIW 1

Form of Work	Criterion	Description	Points (max 100)
T Ses Alling.	Accuracy of the Flowchart	The flowchart is fully accurate and reflects all necessary components and processes	20-25
r devices I)	Waise Sqn. K	The flowchart is mostly accurate, but there are minor errors	15-19
Flowchart of computer (Lucidchart tool) (40 points)	Skula e egn	The flowchart has significant errors, with some components and processes missing	5-14
	st no e	The flowchart is inaccurate or incomplete	0-4
	KT SKNO.	The flowchart is clearly designed in Lucidchart, all elements are easily readable and logically connected	10-15
	Readability and Design	The flowchart is generally readable, but there are minor design flaws	5-9
	a.eo.du.kl	Readability and design hinder understanding of the flowchart	0-4
S S	Kulg. 9'60'911'K	All necessary tables are created, properly structured, and relationships between tables are established	15-20
	Tables	Tables are created, but there are errors in structure or not all relationships are correctly set	10-14
	KT 2 SKULUS.	Tables are partially created, with significant errors in structure and relationships	5-9
b od	1, 1/2, M	Tables are missing or incorrect	0-4
Database (MS (60 point	50°911'KT 3. 3	All necessary forms are created, functional, and user-friendly	7-10
LE S. SKULL	Forms	Forms are created, but their functionality or design needs improvement	4-6
90, Kr 20	The Jie Mr.	Forms are partially created or incorrectly designed	0-3

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	F 3 111. 3	Queries are correct, efficiently retrieve and process data	10-15
Kurg. Egn	Queries	Queries are created but work inefficiently or contain errors	5-9
2 SK. May J. S.	911. KT 2K	Queries are partially created or incorrect	0-4
1 St Skyling	is equitive KT	Reports are created and accurately display query results and data	10-15
71. KT 24	Reports	Reports are created, but their content or format needs improvement	5-9
60 911. KJ	ex Wig Son Y	Reports are missing or incorrect	0-4
Usies Egninik	T SKUUSE	The comparative analysis of antivirus programs is clear, logical, and well-founded	15-20
skua sieregn	Comparative	The analysis is conducted, but with insufficient detail or errors	10-14
T SKIMONS	Analysis	The analysis is partially conducted or has significant errors	5-9
K SK W	3.60 11.11	The analysis is missing or completely incorrect	0-4
M. KI SK	Was Egnin	The report is clearly presented, includes all necessary elements, tables, or diagrams	5-10
is equitive A	Quality of Report	The presentation is generally good, but there are minor issues	3-4
We segmi	Presentation	The presentation makes it difficult to understand the content of the report	0-2
SIW 2	90. KJ 24. K	40 60 M. 15 36 40. 60 Mil 1 34.	Vs. Ca.
Form of Work	Criterion	Description	Points (max 100)
on et, A	Searching for	Relevant information on current medical topics and educational resources is found	30-40
ora			
	Specialty-	Information is mostly relevant but has minor omissions	20-29
ormati nterna s stora "	Related	Information is mostly relevant but has minor omissions Search is incomplete or contains minor errors	20-29 10-19
nformati ie Interne lata stora ing"			
y for information on the Internet, for data storage ocessing" ord)	Related Information	Search is incomplete or contains minor errors	10-19
on for for or for ints	Related Information	Search is incomplete or contains minor errors Search is not done or is completely incorrect Account is created, cloud collaboration is organized, and requirements are met Account is created but has minor issues in collaboration	10-19 0-9 14-20 7-13
for certaints	Related Information	Search is incomplete or contains minor errors Search is not done or is completely incorrect Account is created, cloud collaboration is organized, and requirements are met Account is created but has minor issues in collaboration Cloud work is partially completed or has errors	10-19 0-9 14-20
for for ord	Related Information Using Cloud Services for Data Storage	Search is incomplete or contains minor errors Search is not done or is completely incorrect Account is created, cloud collaboration is organized, and requirements are met Account is created but has minor issues in collaboration Cloud work is partially completed or has errors Data analysis and visualization are done using Google Sheets	10-19 0-9 14-20 7-13
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1, 3. 30.	1 2 My 3	Storyboard is detailed and reflects the content of the video	14-20
KU1, 35. 391	Creation of	Storyboard is created but requires improvements	7-13
2. SKULD'S	Storyboard	Storyboard is partially done or does not reflect the content of the video	0-6
KT SKUL	18. 2. Egn/17. KT	Video is edited professionally, with good quality recording and editing	30-40
10. Kr 26	160 Jin 1911. A	Video is edited with minor errors	20-29
9n. Kr 3	Ilaa of Vidaa	Video is edited, but quality of recording or editing is poor	10-19
in 90. Kr	Use of Video Editing Software	Video is not edited or edited poorly	0-9
Usi segnitirk		Research is conducted but not all aspects are covered or there are gaps in the analysis	10-14
1100 JEN 41		Research is superficial or insufficiently detailed	5-9
SK, Way Son		Research is not conducted or is poorly executed	0-4
T 2K, Was	5 6971.KJ 2K	Video report is well-structured, professionally edited, and presents all research findings	15-20
11.K1 12 SKY	Quality of Video	Video report is created but contains minor errors or lacks structure or editing quality	10-14
edu. K1	Report	Video report is created but has major errors or weak structure	5-9
). 60, 411 in	1 2/1, 20. 60	Video report is missing or poorly executed	0-4
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Check List for midterm control

Computer testing	Max 100	Min 50
The testing is conducted on a computer.	90-100	Exellent
The test consists of 50 questions.	70-89	Good
Evaluation is carried out using a 100-point scale.	50-69	Satisfactory
The duration of the test is 50 min.	<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	Stall and
A	3,67	90-94	Exellent
B ₊ +	3,33	85-89	E SI We Sign You
BOOKE	3,0	80-84	MA SE CO SON
Barroll	2,67	75-79	Good
C+	2,33	70-74	6 41. KT 34 Way
L SCALL Single	2,0	65-69	satisfactorily
C- 10 3.	1,67	60-64	4, 6, M. 1 34
D+ 2	1,33	55-59	100 60 M. 1 34
D- D- W	1,0	50-54	St. Ma 60, 101, 12
FX	0,5	25-49	St. 100 - 60 10. 11
E S	0 0	0-24	unsatisfactory

11. Learning resources

) I	Electronic databases	Signal Mr. Kr. Sk. Wo So YN
No	Title	Link St. Co.
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	Flectronic library "Enigraph"	http://www.elib.kz/

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So Yn.	Department "Medical Biophysics and Information Technologies"				2025
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5.7	Epigraph - portal of multimedia textbooks	https://mbook.kz/ru/index/
6	Information and legal system "Zan"	https://zan.kz/ru
77	ЭБС IPR SMART	https://www.iprbookshop.ru/auth
8	Medline Ultimate EBSCO	https://surl.li/rcdthz
-9	eBook Medical Collection EBSCO	https://surl.li/rcdthz
10	Scopus	https://www.scopus.com/

Electronic textbooks

- 1. Information and communication technology [Электронный ресурс]: учебное пособие/ М. Б. Сапрыгина, К.Ж. Кудабаев. Электрон. текстовые дан. (20.2Мб). Алматы: [s. n.], 2017. 134 эл. опт. диск (CD-ROM) (на трех языках)
- 2. Қ.Ж. Құдабаев, А.С. Байділдаева, З.М. Абдримова, А.А. Мауленова, З.С. Халметов. «Информатикадан тест тапсырмаларының жинағы» Оқу-әдістемелік құрал.- Алматы, «Эверо» баспасы, 2020. 150 б. https://elib.kz/ru/search/read_book/2949/4. К.Ж.Кудабаев,
- 3. К.Ж. Кудабаев, З.С. Халметов, А.А. Мауленова, З.М. Абдримова, А.С.Байдилдаева. Учебно-методическое пособие «Сборник тестовых заданий по информатике».- Алматы, «Эверо», 2020г., 150 с. https://elib.kz/ru/search/read_book/2948/
- 4. Қ.Ж. Құдабаев. «Информатика» Оқу құралы. Алматы, «Эверо», 2020ж. 216б. https://elib.kz/ru/search/read_book/328/
- 5. Ricklefs V.P. Basics of Informatics: Educational manual for medical specialties of higher educational.— Almaty: Publishing house «Эверо», 2020.—242р https://elib.kz/ru/search/read_book/363/
- 6. Нурпеисова Т.Б., Кайдаш И.Н. Қазіргі сандық әлемдегі информатика Информатика в современном цифровом мире: оқу құралы. Алматы: «Бастау», 2021. 416 б. На двух языках. http://rmebrk.kz/book/1177090
- 7. Urmashev B.A. Information-communication technology: Textbook/ Ministry of education and science of the Republic of Kazakhstan, Association of higher educational institutions of Kazakhstan.- Almaty: Bookprint, 2016.- 413 p. http://rmebrk.kz/book/1165091
- 8. Polyakov, M. V. Intelligent data analysis in medicine: study aid / M.V. Polyakov.- Москва: Ай Пи Ар Медиа, 2024.- 73 с. // IPR SMART: https://www.iprbookshop.ru/135229.html
- 9. Интеллектуальные информационные технологии в управлении биомедицинским оборудованием: уч. пособие / Н.В. [и др.]; под редакцией Л.В. Черкесовой. Ростов-на-Дону: ДГТУ, 2022.- 142 с.// IPR SMART: https://www.iprbookshop.ru/130404.html
- 10. Голиков А.М. Цифрлық байланыс жүйелеріндегі ақпаратты қорғау: оқулық / А.М. Голиков.-Алматы, Москва: EDP Hub, Ай Пи Ар Медиа, 2024.- 286 с. // IPR SMART: https://www.iprbookshop.ru/138445.html
- 11. Баймулдина Н.С. Компьютерлік графика негіздері: оқу құралы / Н.С. Баймулдина. Алматы, Москва: EDP Hub, АйПиАрМедиа, 2024. // IPR SMART: https://www.iprbookshop.ru/141467.html
- 12.Поляков М. В. Медицинадағы деректерді өндіру: оқу құралы.- Алматы, Москва: EDP Hub, Ай Пи Ар Медиа, 2024.- 85 с. // IPR SMART: https://www.iprbookshop.ru/135262.html
- 13. Кокорин В.Н. Цифровые двойники биосистемы человека как механизм искусственного интеллекта в здравоохранении.- Ульяновск: УлГТУ, 2023.- 92 с.-//IPR SMART:

https://www.iprbookshop.ru/149310.html

- 14. Christian Bohm; Claudia Plant. Database Technology For Life Sciences And Medicine/ Science, Engineering, and Biology Informatics. Singapore: World Scientific, 2010 // eBook Medical Collection
- 15.G.J.E. De Moor. Transatlantic Cooperation Surrounding Health Related Information and Communication Technology.- Amsterdam: IOS Press. 2011. // eBook Medical Collection EBSCO
- 16.K.L. Courtney, O. Shabestari, A. Kuo. Enabling Health and Healthcare Through ICT: Available, Tailored and Closer.- Amsterdam: SAGE Publications Ltd.- 2013, // eBook Medical Collection EBSCO

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60, 111	Syllabus of the course "Information and Com	municat	ion Technologies"	14 page out of 16

Laboratory physical resources

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

Software

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

Main Literature

- 1. Нурпеисова Т. Б. Информационно-коммуникационные технологии: учеб. пособие.-2017
- 2. Хакимова Т. Практикум по курсу "Основы информатики": уч. пос. Алматы: "NURPRESS".-201
- 3. Urmashev B.A. Information-communication technology: Textbook /B.A. Urmashev.-Almaty: Association of higher educational instutions of Kazakhstan, 2016
- 4. Koshimbaev Sh.K. Automation of standard technological processes [Text]: textbook / Sh.K.Koshimbaev, B.A. Suleimenov.-Almaty:[s.n.], 2016.- 266p.
- 5. Manapov N.T. Computer chemistry [Τεκcτ]: textbook/ N.T. Manapov.- Almaty: Association of higher educational institutions of Kazakhstan, 2016. 312 p
- 6. Methods of teaching computer science Textbook / E. Bidaibekov [and etc.]. Almaty:[s.n.], 2016. 359 p.
- 7. Nurpeisova T.B. Information and Communication Technologies: Text-book / T.B. Nurpeisova, I.N. Kaidash.- Almaty: Bastau, 2017.- 480 p.

Additional Literature

- 1. Қойбағарова Т.Қ. Информатика: оқу-әдістемелік құралы Түзет.,толықт.2-бас. Алматы: Эверо.-2014,325 бет.
- 2. Информатикадан тест тапсырмаларының жинағы: оқу-әдістемелік құрал- Алматы: Эверо.-2014
- 3. Сборник тестовых заданий по информатике: учеб.-методическое пособие / К. Ж. Кудабаев [и др.].-Рек. решением учеб.-метод. совета ЮКГФА.- Алматы: Эверо, 2014.- 114 с.

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

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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.

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