онтизтик-одадовтан медизина академиясы» Ақ «Оңтүстік Қазақстан медицина академиясы» Ақ	инская академия»
Department "Medical Biophysics and Information Technologies"	№ 35-11(И)-2024
Syllabus of the course "Information and Communication Technologies"	1 page out of 20

## Syllabus

Department "Medical Biophysics and Information Technologies" Work program of the course "Information and Communication Technologies" Educational program 6B07201-«Pharmaceutical manufacturing technology»

1.	General information about the course							
1.1	Course code: ICT 1105	1.6	Academic year: 2024-2025					
1.2	Course name: Information and Communication Technology	1.7	Year: 2					
1.3	Prerequisites: - Biophysics	1.8	Term: 4					
1.4	Postrequisites: Computer - engineering graphics in design	1.9	Number of credits (ECTS): 5Component: Mandatory component					
1.5	Cycle: General Education Subjects	1.10	Component: Mandatory component					
2.	Course content	25	Mar do the stands					
networ	cture of computer systems, types of software, data king, cybersecurity, internet technologies, cloud logies, AI fundamentals and its applications.							
3.	Form of summative assessment	eo,	1. 1. ct					
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	5.1	Mr. 2. W. KI St. Mo					

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 ou	tcomes
LO1		purpose, content, and development trends of information and communication and justify the choice of the most suitable technology for solving specific tasks.
LO2		hods for collecting, storing, and processing information, and ways to implement and communication processes.
LO3	Describe the of key compo	architecture of computer systems and networks, including the purpose and functions onents.
LO4		net resources, cloud services, and mobile applications for searching, storing, nd disseminating information.
LO5	Apply softwa store data.	are and hardware for computer systems and networks to collect, transmit, process, and
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		the ability to apply the theory, methods, and principles of artificial intelligence in the ntelligent software systems
5.1	Course LO	EP learning outcomes, which are related to the course learning outcomes
$\sim$	LO1	LO 1 Demonstrates knowledge of external and internal regulatory and technical
	LO2	documents and acts in the conditions of technological production and in the process
	LO3	of updating them.
	LO4	LO 7 Implements the organization and management of human resources for the
	LO5	implementation of the technological process and solving production problems in
	LO6	accordance with the production strategy.
	LO7	LO 11 Demonstrates knowledge and understanding of the issues of the

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~	9.			and Communication 7				page out of 20
S	ini 24	area	s and legal requ	stry in the relatio irements and unde he pharmaceutical	rstandin	g of cui		
6	•	<b>Course Details</b>	NH S X	man and and	Kr.	5,1	in the share	VI St
6.	1	Venue: South Kaza Information Techn add 1063.						
6.	2		Prac. Lessons	SIW7		1. T. V	SIW	3. cor
	. 0	of hours	50	15	0. 6	1,0.	85	A CON
7 №	<u></u>	Information abou Full nam		Academic degra	e and po	sition	Email	address
יפאנ 1	Iva	nova Marina Boriso		Academic degre PhD, professor	e anu po	SILIOII	Email marina-iv@m	
1. 2.		diyeva Meruyert A		PhD, ass. Prof.	54	( <sup>1</sup> 0 <sup>1</sup>	meruert_berd	
3		drimova Zakhira Ma		Master's degree,	senior te	acher	zakira75@ma	
4	1	durahmanova Zhani		Master's degree,	senior te	acher	zhanil15@ma	il.ru
5	<b>S</b> ( 1)	dildaeva Akmaral S	agintaevna 🛛 🖯	Master's degree,	senior te	acher	68.akmaral@	mail.ru
8		Thematic plan	1 COV VI	S. Hurs	$\gamma_{\gamma}$	EL .	St. no se	Ly 'W'
		Topic	Brief	Brief content		Number of hours	Forms/ Methods/ Technolog ies of teaching	Forms/ Methods of assessmen
		Introduction to computer systems. Architecture of computer systems	Evolution systems. An components systems. Use systems. Dat in compu Calculation productivity system: spe	of metrics of of computer	LO 1 LO 2 LO 3 LO 4 LO 5	3.0 54112 3.0 011.12 011.12	Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
		individual assignment / Development of	e Rules for building flowcharts. LO 4 Examples of flowcharts LO 5 / f Creating flowcharts describing	ompleting adividualthe Rules for building flowcharts. Examples of flowchartsLO 4 LO 5SIW Der on, inst Correcting flowcharts describing the operation of various computer evices.SIW Der on, inst Corr train Flow soft	SIWT / SIW / Demonstrati on, instruction / Computer training, Flowchart software Lucidchart	Flowchart /According to the checklist		
4	2 54	Software. Operating systems. Human- computer	software, characteristic.	YpesofthepurposeandBasicconceptstionofoperating	LO 1 LO 2 LO 4 LO 5	3	Practical class/ Discussion, demonstrati	MCQ, practical assignment, participation

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	Department "I	Medical Biophysics and Information Tec	hnologies			а 35-11(И)-2024
$\overline{v_{g_i}}$	Syllabus of the co	ourse "Information and Communication"	Fechnolog	gies"	3	page out of 20
skins ku.ku du.ku du.ku du.ku	interaction	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 an operating system. Operation with files and directories.	SKULA SKULA SKULA SKULA	Rana Alina Alina Alina Alina Alina Alina Alina Alina Alina Alina Alina Alina Alina Alina	on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	in discussion / According to the checklist
241.8 241.8 13.001	Consultation on completing the individual assignment / Development of flowcharts of computer devices. Stage 2.	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 84 84 84 84 84 84 84 84 84 84 84 84 84	SIWT / SIW / Demonstrati on, instruction / Computer training, Flowchart software Lucidchart	Flowchart /According to the checklist
351 1. KL edu. H na. edu 5. Kna 5. Kna 5. Kna 5. Kna 5. Kna 5. Kna 5. Kna 5. Kna 5. KL 5. KL	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	SKINA SKINA SKINA SKINA SKINA	Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
N. K. M. SKING	Consultation on completing the individual assignment / Collecting, the analysis and structurization of data in the professional	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 4 LO 5 LO 7	1/5 6 1/5 6 2.1/2 800.40	SIWT / SIW / Demonstrati on, instruction / Computer training, MS Access	Database /According to the checklist



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Department "Medical Biophysics and Information Technologies"	№ 35-11(И)-2024	
Syllabus of the course "Information and Communication Technologies"	4 page out of 20	

	environment. Stage 1.	1 Stateman 3. et all in 12	Still	0.	or duit K2	SKIII Ma.
2 2 6 6 8	Data analysis. Data management	Basics of Data Analysis. Methods of data collection and data classification. Processing of numerical information, editing formulas and creation of charts in spreadsheet editors (MS Excel).	LO 1 LO 2 LO 4 LO 5 LO 7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
K 1 2 2 3 3 6 1 4	Consultation on completing the individual assignment / Collecting, the analysis and structurization of data in the professional environment. Stage 2.	individual multi-table database	LO 4 LO 5 LO 7	1/4 JU.K.	SIWT / SIW / Demonstrati on, instruction / Computer training, MS Access	Database /According to the checklist
2 3 3 V	Networks and telecommunicatio ns	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. Monitoring of a network. Analysis of traffic. Use of sniffers for the analysis of network packets.			Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
	Consultationoncompletingtheindividualassignment/Descriptionof	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	SIWT / SIW / Demonstrati on, instruction / Computer	Report and flowchart /According to the checklist

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Syllabus of the co	ourse "Information and Communication"	lechnolog	ies"		page out of 20
network topology of the healthcare facility.	1 SKMa. edu. K	SKAL	No.	training, 10-Strike Network Diagram	St skina e
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. Use of hardware and software for key generation. Application of the EDS and encoding in case of message exchange by E-mail. 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 4 LO 5 LO 6 LO 7	A A A A A A A A A A A A A A A A A A A	Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
Consultation on completing the individual assignment / Comparative analysis of anti- virus means of information protection.	Study of functionality of antivirus programs. Comparative analysis.	LO 4 LO 5 LO 6		SIWT / SIW / Demonstrati on, instruction / Computer training,	Report /According to the checklist
Internet technologies	Basic Internet concepts. The 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 1 LO 2 LO 4 LO 5 LO 7	A SKILL	Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist

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$\mathcal{O}$	Synabus of the ee	suise minimation and communication	reennolog			page out of 20
5KM 5KM 6U.KI 8.edu	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 1 LO 2 LO 3 LO 4 LO 5 LO 6 LO 7		Computer testing (MCQ)	Evaluation is carried out using a 100- point scale.
Raduk Allen	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 information access. GPS navigators.	LO 1 LO 2 LO 4 LO 5	Na.edu Skino Skino Skino Skino	Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
	Consultation on completing the individual assignment / Searching for information related to specialty on the Internet, using cloud services for data storage and data processing Multimedia	Searching for specialty-related information: researching current medical topics, searching for educational resources. Using cloud services for data storage account, collaboration work. Using cloud services for data processing: data analysis, data visualization (Google sheets).	LO 4 LO 5 LO 7	1/5	SIWT / SIW / Demonstrati on, instruction / Computer training, Google sheets Practical	Report /According to the checklist MCQ,
ST. St.	technologies	video and graphical information in a digital format. Basic technologies for compression of information.	LO 1 LO 4 LO 5	skina	class/ Discussion, demonstrati on,	practical assignment, participation in discussion

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e	Department "I	Medical Biophysics and Information Tec	hnologies"		я медицинская акал №	аемия» 35-11(И)-2024
<u>9.</u>	Syllabus of the co	ourse "Information and Communication"	Fechnologi	ies"	7	page out of 20
Z SKINE Z SK JU.KZ edu	na.edu.edu.k skma.edu.k skma.edu.k skma.edu.k skma.edu.k	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)	54914 142 549 2011, 142 14	12.54 2.54 1.12.4	instruction, completing a practical assignment/ Presentation , computer training, specialized software	/ According to the checklist
102. 5401 5401 5401 5401 5401 5401 5401 5401	Consultation on completing the individual assignment/ Creation of video files with use of programs: VideoPad, CapCut, Windows Movie Maker, etc. Stage 1	Choose a current medical topic. Research and script. Create a storyboard. Use video editing software. Record an edit. Publish.	LO 4 LO 5		SIWT / SIW / Demonstrati on, instruction / Computer training, video editing software (VideoPad, CapCut, Windows Movie Maker)	Video file and project According to the checklist
10 . Kl . kl	Smart technologies	Internet of things. Big data. Technology Block Chain. Use of Smart-services. Green technologies in ICT. Teleconferences. Telemedicine.	LO 1 LO 4 LO 5	AURAN	Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
1.K2 sdu. sdu. skm² skm²	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	L 1/4 C	SIWT / SIW / Demonstrati on, instruction / Computer training, video editing software (VideoPad, CapCut,	Video file and project According to the checklist

<u></u>		Medical Biophysics and Information Tec ourse "Information and Communication"				2 35-11(И)-2024 page out of 20
SKM	Stage 2	1 SKIND BE CHUILLY	SKINO	10. 10. 10.	Windows Movie Maker)	SKII SKINZ
KII AU.KI AU.KI AU.KI AU.KI AU.KI	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	sking	Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
ia.edi	Consultation on completing the individual assignment / Review of contemporary AI research	Studying recent articles and publications on the latest achievements in artificial intelligence.	LO 1 LO 4 LO 5 LO 8		SIWT / SIW / Demonstrati on, instruction / Computer training	Report /According to the checklist
12 J.K. edu. na.eo Skina Skina Skina	Introduction to AI tools and platforms. Large Language Models.	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.	LO 4 LO 5 LO 8	Stand	Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
edu Ma.	Consultation on completing the individual assignment / Comparative analysis of AI tools	Comparing the functionality and effectiveness of various artificial intelligence tools and platforms.	LO 1 LO 4 LO 5 LO 8	1/5	SIWT / SIW / Demonstrati on, instruction / Computer training	Report /According to the checklist
139	Generative AI tools.	Overview of Generative AI tools. Creating generative art and music using AI tools.	LO 4 LO 5 LO 8	3	Practical class/ Discussion,	MCQ, practical assignment,

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5KM KZ 6U.KZ 6U.KZ 6U.KZ	Na. COLONIA Ma. COLONIA SKINA. SKINA. COLONIA SKINA. SKINA. SKINA. COLONIA SKINA. SKINA. SKINA. SKINA.	Studying possible experiments with various generative art tools to create images and music.	SKINC SKINC 2011-12 201-12 2011-12 2011-12 2011-12 2011-12 2011-12 2011-12 2011-12 200	13.00 54/13 2.4/14 2.4/14 2.4/14 2.4/14 2.4/14 2.4/14 2.4/14 2.4/14 2.4/14 2.4/	demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	participation in discussion / According to the checklist
All K	Consultation on completing the individual assignment / AI and Society	Conducting research and creation a video report about impact of AI on various aspects of public life.	LO 4 LO 5 LO 8		SIWT / SIW / Demonstrati on, instruction / Computer training, interview	Video report with research results According to the checklist
140 13. 140 13. 140 140 140 140 140 140 140 140 140 140	Information technologies in medicine and pharmacy	The software for the solution of tasks of the specialized professional sphere. Modern IT trends in medicine and pharmacy. Use of search engines and electronic resources in the professional sphere. Using STATISTICA software for processing medical and pharmaceutical data.	Lo 4 LO 5 LO 7		Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussion / According to the checklist
SKMO SKMO SK	Midterm control 2 / Preparation for midterm control 2	Cloudandmobiletechnologies.Multimediatechnologies.Smarttechnologies.Introduction toAI.Introduction to AI Tools.GenerativeAIInformationtechnologiesInformationtechnologiesmedicineand	LO 1 LO 2 LO 3 LO 4 LO 5 LO 6 LO 7 LO 8		Computer testing (MCQ)	Evaluation is carried out using a 100- point scale.
15 18 540	Prospects of development of ICT	Prospects of development in the sphere of the IT market: development of the free software. Development of necessary infrastructure of electronic payments and logistics. Prospects of development of E- technologies.	LO 1 LO 4 LO 5	4. 200. 12.00	Practical class/ Discussion, demonstrati on, completing a practical assignment/ Presentation	MCQ, practical assignment, participation in discussion / According to the checklist



Syllabus of the course "Information and Communication Technologies"

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SKIM	na.e. edu.u.k	1 sternar ale	edu, V.K.	- Start	50.00	, compute training,	L Stype
AU.N.	Consultation on completing the individual assignment / AI and Society	Conducting researc creation a video rep impact of AI on var aspects of public lit	port about rious	LO 4 LO 5 LO 8	1/5	SIWT SIW / Demonstra on, instruction Computer training, interview	According to
do.	Exam preparation a		N. 1 7.	10.	15	Y. Y.	St All St
9.		s and Assessment F		s. M.	.0.	gn. Kr	STAN
9.1 VI	Practical class	Discussion, demon Presentation, comp MCQ, practical as checklist	outer training,	specializ	zed softw	vare	r 12 string
9.2	SIWT / SIW	Flowchart, Databa Video report with r	research resul	ts / Acc	cording to	the checkli	st
9.3	Midterm control	Computer Testing	(MCQ). Eva	luation i	s carried	out using a	100-point scale.
10.	Assessment criteri		1 2	2.	Q. K	1 5 X	Un Die gu.
10.1.		ing course learning	outcomes	N		YL S	All a di
LO#	Learning outcome	Unsatisfactory	Satisfacto	5.1	Go	XV' VI	Excellent
LOJA J. V. V. edu. Skina Skina	of the most suitable technology for solving specific tasks	the purpose and content of ICT. Incorrectly identifies development trends. Unable to justify the choice of technology for solving specific tasks.	Has a understandin developmen trends, but some inaccuracies Justifies choice technology basic level.	and CT in terms. basic ng of t with s. the of at a	and mai of ICT w to just choice technolog solving though w minor inaccurac	content, a n trends of vell. Able 1 ify the a of t gy for 0 tasks, of vith some s cies. t	Clearly and accurately explains the purpose, content, and development trends of ICT. Confidently and convincingly selects the most suitable technologies for solving specific tasks
	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	describe the ways	in ns but . Can basic of ng hough some	Explains methods ways implemen processes though aspects require clarificati	and a to c nt f s well, s some f may i ion. c	Fully and accurately explains methods for collecting, storing, and processing information. Confidently describes ways to implement processes.

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	Describe the architecture of computer systems and networks, including the purpose and functions of key components	Unabletoaccuratelydescribethearchitectureofcomputer systemsandnetworks.Makeserrorsinidentifyingthepurposeandfunctionsofcomponents.	Can describe key components, though not always accurately.	architecture, purpose, and functions of key components well, though there are minor inaccuracies.	Clearly and accurately describes the architecture of computer systems and networks, as well as the functions of all key components.
	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.	level but with limited effectiveness.	internet resources and applications, though there is room for improvement.	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.	applies software	Fully proficient in applying software and hardware to accomplish all tasks.
LO6	Analyze and justify the choice of methods and tools for information security				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		with limited	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	understanding or ability to apply AI theory and		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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<u>, , , , , , , , , , , , , , , , , , , </u>	De	epartment "Medical Biophy	sics and Information Technologies"	35-11(И)-2024 page out of 20
	software s	systems	A CONTRACTOR AND A CONTRACTOR	Strine.
		or assessing	a contraction of the	st' no
		essing practical class	1 and all the state of all in the second	KL 55,0
1.	of Work	Criterion	Description	Points (max 100)
10. L	S SA	na. earlinke	All answers are correct	17-20
Testing (20 points)		Quality of Answers	Most answers are correct, but there are errors	12-16
		Quality of Allswers	Partially correct answers	7-11
		$1  S^{(1)}  \alpha^{(3)}  e^{(1)}$	Many incorrect answers	0-6
J.	60 XV.	1 st no.	Fully completed with correct results	50-55
ts) er		Completeness of	Completed, but with minor errors	35-49
ompletion Individua	Computer Task (60 points)	Task	Partially completed with significant errors	20-34
lqn vibr	0 D	en 20. 1 1 4	Task completed partially or with multiple errors	0-19
Completion of Individual Computer Task (60 points)		Adherence to	On time Late	5 0
1.1	gt'	Deadlines		5-10
Participation in Discussion (20 points)		non eu with	Active participation, constructive comments	
		Activity in Participation	Participation with minimal comments	3-4
			Passive participation or lack of constructive comments	dia. en
Ę	20 20	Opality of	Clearly formulated and justified arguments	5-10
Par		Quality of Argumentation	Arguments present but not always justified	3-4
St	and e	ringuineintation	Arguments absent or unconvincing	0-2
-	st for asse	essing SIW	the second the second	VI St.
SIW 1	St a	a. 60	the state of the state of the	J CL S
Form o	of Work	Criterion	Description	Points (max 100)
ces		Accuracy of the Flowchart	The flowchart is fully accurate and reflects all necessary components and processes	20-25
devic		KI SKIMA	The flowchart is mostly accurate, but there are minor errors	13-19
of computer devic	t tool its)	N. K. VI SKIMO	The flowchart has significant errors, with some components and processes missing	5-14
SE	har	2 w. ali	The flowchart is inaccurate or incomplete	0-4
urt of c	Lucidchart tool (40 points)	politika i	The flowchart is clearly designed in Lucidchart all elements are easily readable and logically connected	
Flowchart (Lu		Readability and Design	The flowchart is generally readable, but there are minor design flaws	5-9
Ē	JU.KL	1 St. Kmona.ed	Readability and design hinder understanding of the flowchart	f 0-4
Database (MS Access)	60 points)	Tekles 1 sking	All necessary tables are created, properly structured, and relationships between tables are established	
atabase ( Access)	(60 p	Tables	Tables are created, but there are errors in structure or not all relationships are correctly set	10-14
Dat Dat		a vi vi	Tables are partially created, with significant errors	s 5-9

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Syll	abus of the course "Inf	formation and Communication Technologies" 13	page out of 20
Mr. S. Sh.	Vr 55.0		14° 20. 0
	Nº VI St	in structure and relationships	7.11. 3.
St all of	10. 11 G	Tables are missing or incorrect	0-4
A SK Man	e duit H	All necessary forms are created, functional, and user-friendly	1 7-10
U.M. KI SKI	Forms	Forms are created, but their functionality of design needs improvement	r 4-6
on the si	and a condition	Forms are partially created or incorrectly designed	d 0-3
a edu u.K.	SKM na.	Queries are correct, efficiently retrieve and process data	
Mura.ecolum	Queries	Queries are created but work inefficiently or contain errors	r 5-9

all the shirt	Forms	Forms are created, but their functionality or design needs improvement	4-6
all the si	Muc S. C. Mr. 1	Forms are partially created or incorrectly designed	0-3
13. edu	sknina.eedu	Queries are correct, efficiently retrieve and process data	10-15
skind ender edu.	Queries	Queries are created but work inefficiently or contain errors	5-9
st no. eu	1. The stand	Queries are partially created or incorrect	0-4
1 1 54 Kn3. 3.0	odu. Kr skin	Reports are created and accurately display query results and data	10-15
m. Kr Skuins	Reports	Reports are created, but their content or format needs improvement	5-9 5-
IN LL G		Reports are missing or incorrect	0-4

Form of Work	Criterion	Description	Points (max 100)
healthcare	U.K. I. Skinena.	The network topology is clearly described with all necessary details, covering the entire office building	15-20
healt	Clarity and Detail of Description	The description is mostly clear but lacks some details	10-14
of the am too	ego du Kr Kr	The description is vague or missing significant parts	5-9
y o	and a conduct to	The description is unclear or incomplete	0-4
Flowchart of network topology of the P facility (Strike Network Diagram tool) (50 points)	skin na. edu.	The flowchart accurately represents the network topology as described	15-20
rk to faci twork (50 p	Accuracy of the Flowchart	The flowchart is mostly accurate but contains minor errors	10-14
netwo ke Ne		The flowchart has significant errors or omits key elements	5-9
Ę Ę		The flowchart is inaccurate or incomplete	0-4
hart (S	Justification of	The choices for network design are well-justified with logical reasoning	5-10
Howe	Decisions	Justification is provided, but it requires improvement	3-4
	F. dar correction	Justification is missing or unconvincing	0-2
a.e. edu.u.k	Study of Antivirus Functionality	The functionality of antivirus programs is thoroughly and correctly studied	15-20
ma. ev. du.		The functionality is studied, but there are omissions or minor errors	10-14
541,4118.8.60		The functionality is partially studied with serious errors	5-9
	edu. Kr St	The functionality is not studied or the work is incorrect	0-4

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De	epartment "Medical Bioph	nysics and Information Technologies" № 3	35-11(И)-2024			
Syllabus of the course "Information and Communication Technologies"         14						
vsis	W. KI SKINI	The comparative analysis of antivirus programs is clear, logical, and well-founded	15-20			
"Comparative analysis nti-virus means of mation protection" (MS Word) (50 points)	Comparative Analysis	The analysis is conducted, but with insufficient detail or errors	10-14			
Comparative ii-virus mea ation protee (MS Word) (50 points)	Analysis during k	The analysis is partially conducted or has significant errors	5-9			
po po		The analysis is missing or completely incorrect	0-4			
		The report is clearly presented, includes all necessary elements, tables, or diagrams	5-10			
Report of 2 info	Quality of Report Presentation	The presentation is generally good, but there are minor issues	3-4			
. N. C.	p. Kr st. Kn	The presentation makes it difficult to understand the content of the report	0-2			
SIW 3	600	and and the second of and	I SH			
Form of Work	Criterion	Description	Points (max 100)			
ed to rices	Searching for	Relevant information on current medical topics and educational resources is found	30-40			
formation related to using cloud services ata processing" d) (ts)	Specialty-Related Information	Information is mostly relevant but has minor omissions	20-29			
lou		Search is incomplete or contains minor errors	10-19			
pro pro		Search is not done or is completely incorrectAccount is created, cloud collaboration is	0-9			
		organized, and requirements are met	14-20			
Report " Searching for infor specialty on the Internet, usir for data storage and data (MS Word) (100 points)		Account is created but has minor issues in collaboration	7-13 0-6			
L C C	Co. Co. M. Kr	Cloud work is partially completed or has errors Data analysis and visualization are done using	ON KY			
Searc) on the ta sto	Using Cloud	Google Sheets         Data analysis and visualization are done, but	30-40			
" dat	Services for Data	contain errors	20-29			
Report specialt for	Processing	Data analysis is partial or has significant errors	10-19			
Rel	TVI SKIL NO	Data analysis is not done or is done incorrectly	0-9			
SIW 4	Nº 12 54	The set with the set of the set	12. All			
1 . Kn	s.edudukt Kt	Topic is current, research is thorough, and script is written	30-40			
Windows etc.)		Topic is chosen, but research or script needs improvement	20-29			
		Topic is chosen, but research is superficial and script has errors	10-19			
Video File VideoPad, CapCut, Movie Maker, (100 points)		Topic is not chosen or research and script are completely missing	0-9			
BoPad	Wirk A strand	Storyboard is detailed and reflects the content of the video	14-20			
Sill Co.	Creation of Storyboard	Storyboard is created but requires improvements	7-13			
KL Skina		Storyboard is partially done or does not reflect the content of the video	0-6			

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A AV ALV.	ік Қазақстан медицина акаде partment "Medical Biophy		адемия» № 35-11(И)-2024
			5 page out of 20
skma.edu	HUN Stan	Video is edited professionally, with good quali recording and editing	ty 30-40
SH' no.	Use of Video	Video is edited with minor errors	20-29
KL SKIMA	Editing Software	Video is edited, but quality of recording or editing is poor	10-19
1 4 V	1. 3. CO. Y.	Video is not edited or edited poorly	0-9
SIW 5	K	The star of the star	Points
Form of Work	Criterion	Description	Points (max 100)
XAI	Accuracy and	The latest and most relevant studies and publications are presented	15-20
borar	Relevance of Information	Studies are presented but with outdated data o partially relevant information	10-14
rt emj ord nts)		Studies are incomplete or insufficiently current	5-9
Report "Review of Contemporary Research" (MS Word) (30 points)	N3. 200 11. 1. 12	Information is incorrect or missing In-depth and substantial analysis, clearly formulated conclusions	0-4 y 8-10
	Quality of Analysis	Analysis is done but with shortcomings or weal conclusions	<sup>x</sup> 5-7
"Re	2 St st mar e	Analysis is superficial, conclusions are unconvincing	e 0-4
sis of	U.R. Q. Skinan	Thorough comparison of the functional capabilities of various AI tools	10-15
aly	Comparison of Functionality	Comparison is done but with shortcomings o inaccuracies	5-9
Report Comparative An AI Tools " (MS Word) (30 points)		Comparison is superficial or insufficiently justified Evaluation of the effectiveness of AI tools i	0-4
(M) (M) (M)	Car Carry	conducted and justified	8 10-15
er la com	Analysis of Effectiveness	Effectiveness is evaluated but not fully justified	5-9
13.3 CU. 14	Encenveness	Effectiveness is evaluated incorrectly o unconvincingly	0-4
ows nts)	W. K. Skina	In-depth research is conducted, covering various aspects of AI's impact on society	15-20
Video report with research results " AI and Society" (VideoPad, CapCut, Windows Movie Maker, etc.) (40 points) (50 points)	Quality of Research	Research is conducted but not all aspects are covered or there are gaps in the analysis Research is superficial or insufficiently detailed	10-14
th I s ocie tut, (·	B. COLUNKER	Research is not conducted or is poorly executed	0-4
report with rese results AI and Society" ad, CapCut, Wi faker, etc.) (40 ] (50 points)	Mana. en edu	Video report is well-structured, professionally edited, and presents all research findings	15-20
eo rep " AI ; oPad, e Mak (5	Quality of Video Report	Video report is created but contains minor errors or lacks structure or editing quality	10-14
Vid (Vide Movid		Video report is created but has major errors or weak structure	5-9
<u> </u>	Kr S. Kal	Video report is missing or poorly executed	0-4
Check List for mi		Max 100 N	Tin 50
Computer testing The testing is cond	lucted on a computer.		xellent
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Department "Medical Biophysics and Information Technologies" Syllabus of the course "Information and Communication Technologies"	№ 35-11(И)-2024           17 page out of 20
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Department "Medical Biophysics and Information Technologies"	№ 35-11(И)-2024
Syllabus of the course "Information and Communication Technologies"	18 page out of 20

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

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## Protocol of approval of the course "ICT" with other subjects for the 2024-2025 academic year

Coordination disciplines	Proposals for changes in the proportions of the material, the order of presentation, etc.	Protocol numbers and meeting dates of the corresponding departments
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1. Computer - engineering graphics in design	The ICT course deals with the processing of numerical data and their visualization through the use of Excel spreadsheets, Statistica. The content and sequence of presentation of the material on the ICT discipline is considered appropriate	Reviewed at the meeting of the Department of «Pharmaceutical manufacturing technology», Protocol Noy. Head of the Department to t., ass. Professor Arystanbaev K.E

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