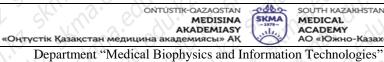
	онтизтік-оагаозтан MEDISINA АКАДЕМІАЗУ «Оңтүстік Қазақстан медицина академиясы» АҚ	SOUTH KAZA MEDICAL ACADEMY AO «Южно	кнรтам -Казахстанская медицинская академия»
Ċ	Department "Medical Biophysics and Informati		
<u>.</u>	Syllabus of the course "Information and Communic	cation Techr	nologies" 1 page out of 20
	Syllabu Department "Medical Biophysics as	nd Informa	ation Technologies"
1.1	Work program of the course "Information Educational program Educational prog General information about the course		
1. 1.1	Educational program Educational prog		
1. <u>1.1</u> 1.2	Educational program Educational prog General information about the course	gram 6B10	0117 – «Stomatology»
	Educational program Educational prog General information about the course Course code: ICT 1105 Course name:	gram 6B10	0117 – «Stomatology» Academic year: 2024-2025
1.2	Educational program Educational prog General information about the course Course code: ICT 1105 Course name: Information and Communication Technology	gram 6B10 1.6 1.7	0117 – «Stomatology» Academic year: 2024-2025 Year: 1

This course covers foundational 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 sur	nmative assessment	Mr Chin	i vit at an construct						
3.1	Testing 🔽	Mr. S. YN. KI	3.5	Coursework						
3.2	Writing 9		3.6	Essay						
3.3	Oral	St. Mo Co With	3.70	Project						
3.4	OSPE / OSC	E	3.8	Other (specify)						
. 4.	Objective of	f the course	1 to 1 sta	3. du Kr S. Masse						
To de	velop the abili	ty to critically evaluate an	nd analyze proces	ses, methods of searching, storing, and						
proces	sing information	on, and ways of collecting a	and transmitting inf	formation through digital technologies.						
5.	Learning ou	tcomes	y. dr. Kr	Stylle of N. V. St.						
LO1				ls of information and communication chnology for solving specific tasks.						
LO2		hods for collecting, storir and communication process		g information, and ways to implement						
LO3	Describe the of key compo		systems and netwo	rks, including the purpose and function						
LO4	Utilize Inter			e applications for searching, storing						
LO5				etworks to collect, transmit, process, and						
L06	Analyze and	justify the choice of metho	ds and tools for inf	Formation security.						
LO7				ctivities using digital technologies.						
LO 8		the ability to apply the the intelligent software systems		principles of artificial intelligence in the						
5.1	Course LO	EP learning outcomes, v	which are related	to the course learning outcomes						
	LO1	LO5. Observes the rules	of ethics, deontolog	gy and subordination, demonstrates						
2	LO2	interpersonal and commu	inicative skills that	lead to effective exchange of						
	LO8	information and cooperat	ion with patients, t	heir families and medical professionals.						
	LO3			fessional growth, constantly improves						
	LO 4	the quality of medical car	re based on self-ass	sessment and lifelong learning.						
	LO5	LO8. Applies electronic	databases of the he	althcare system of the Republic of						
	LO 6	Kazakhstan, providing do	ocumentation of the	e processes of providing medical						
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	5.	Course Det	taile		0	X YL S	1 AC	2	201 ×1	St. dia.
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<u> </u>	3	Thematic	plan	CON Kr	1.	A A	<u>dv. i</u>	KK I	St offer a	
We	ek	Торі	1 5	1, ma. a.ec	ef cont	KL SK	Course LO	Number of hours		a Z
still still	r skn no no	Introductio computer systems. Architectur computer s	re of	systems. Da in comp	of Archite of se of ta re outer of of of beed,	computer ecture and computer computer presentation systems. metrics of computer efficiency,	skina.		Practical class/ Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	MCQ, practical assignment, participation in discussior / According to the checklist
a.edu.k.		Consultation completing individual assignment / Development flowcharts computer devices. Stage 1.	the	Basic element Rules for bu Examples of / Creating flow the operation computer dev	ilding flowcl wchart	flowcharts. narts	LO 3 LO 4 LO 5		SIWT / SIW / Demonstrati on, instruction / Computer training, Flowchart software Lucidchart	Flowchart /According to the checklist
1. J.K	2 54	Software. Operating systems. H computer	Iuman-	Software. software, characteristic of OS. Evolu		ose and ic concepts	LO 1 LO 2 LO 4 LO 5	3	Practical class/ Discussion, demonstrati	MCQ, practical assignment, participation

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r e	Department "	Medical Biophysics and Information Te	chnologie	s"		<u>© 35-11(И)-2024</u>
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skins du.kl. du.kl. du.kl. du.kl. du.kl. du.kl. du.kl. du.kl.		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.	SKINA NA SKINA NA SKINA	Na. edu.	on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	in discussion / According to the checklist
12. edi	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 X2 X1.X2 edu	SIWT / SIW / Demonstrati on, instruction / Computer training, Flowchart software Lucidchart	Flowchart /According to the checklist
351 1. KL edu. Redu. SKINB SKINB	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	SKI 4 SKI SKI SKI SKI SKI SKI SKI SKI SKI SKI	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 edu sknee Sknee	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 2.Kl 2	SIWT / SIW / Demonstrati on, instruction / Computer training, MS Access	Database /According to the checklist



Syllabus of the course "Information and Communication Technologies"

SOUTH КАZАКНSTAN MEDICAL ACADEMY AO «Южно-Казахстанская медицинская академия»

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SKIN	environment. Stage 1.	1 Stermana.coult.	SKA	12.2	500, 90, KT	St Skina e
A Shirt	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	543 1.14 1.14 1.14 1.14 1.14 1.14 1.14 1.	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.k edu.k skina skina	Consultation on completing the individual assignment / Collecting, the analysis and structurization of data in the professional environment. Stage 2.	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 professional field.	LO 4 LO 5 LO 7	1/4 JU-KL SKIII SKIII	SIWT / SIW / Demonstrati on, instruction / Computer training, MS Access	Database /According to the checklist
8.edu	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.	LO 4 LO 5	a. a. a. a. b. b. b. b. b. c. b. c. c. c. c. c. c. c. c. c. c	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
L SKIN	Consultationoncompletingtheindividualassignment/Descriptionof	Requirements analysis based on the description of the healthcare facility. Designing the network topology. Documenting and justifying	LO 1 LO 3 LO 4 LO 5	1/5 6000	SIWT / SIW / Demonstrati on, instruction / Computer	Report and flowchart /According to the checklist

SOUTH KAZAKHSTA MEDISINA MEDICAL АКАДЕМІАSY «Оңтүстік Қазақстан медицина академиясы» АҚ АСАДЕМУ АО «Южно-Казахстанская медицинская академия зμ, Department "Medical Biophysics and Information Technologies" № 35-11(И)-2024 5 page out of 20 Syllabus of the course "Information and Communication Technologies" network topology training, of the healthcare 10-Strike facility. Network Diagram Cybersecurity Security risks of information LO 1 4 Practical MCO. 6 and their classification. LO₄ class/ practical Malicious applications. LO₅ Discussion. assignment, LO₆ participation Measures and means of demonstrati information protection. The LO₇ in discussion on. acts of the Republic of instruction, According Kazakhstan governing legal completing to the relations in the sphere of a practical checklist information security. assignment/ Electronic digital signature. Presentation Encryption. , computer Use of hardware and software training, specialized for key generation. Application of the EDS and software 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. Consultation Study of functionality LO₄ 1/5SIWT Report on of completing LO 5 SIW / /According the antivirus programs. individual LO₆ Demonstrati Comparative analysis. to the assignment checklist on. instruction / Comparative Computer analysis of antitraining, virus means of information protection. Practical Internet Basic Internet concepts. The LO 1 3 MCQ, practical technologies Uniform Resource Locator LO₂ class/ (URL), its assignment and LO₄ assignment, Discussion, components. DNS server. Web LO 5 demonstrati participation

technologies. E-mail. Message

format. SMTP, POP3, IMAP

Creation of a website using the

free website builder (Tilda or

protocols

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) e	Department '	Medical Biophysics and Information Te	chnologies	;" ```		№ 35-11(И)-2024
<u>~~</u> .	Syllabus of the c	course "Information and Communication	Technolog	gies"	5 6 6	page out of 20
.K	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 telecommunica- tions. 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.
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	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.		edu skine skine skine skine skine	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
103.00 54102 5410 54102 5410 5410 5410 5410 5410 5410 5410 5410	Consultation on completing the individual assignment / Searching for information related to specialty on the Internet, using cloud services for data storage and data processing	Searching for specialty-related information: researching current medical topics, searching for educational resources. Using cloud services for data storage: creating a cloud storage account, collaboration work. Using cloud services for data processing: data analysis, data visualization (Google sheets).	LO 4 LO 5 LO 7		SIWT / SIW / Demonstrati on, instruction / Computer training, Google sheets	Report /According to the checklist
9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Multimedia technologies	Representation text, audio, video and graphical information in a digital format. Basic technologies for compression of information. 3-D representations of the	LO 1 LO 4 LO 5	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,	MCQ, practical assignment, participation in discussion / According

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		медицина академиясы» АК XXX AO « Medical Biophysics and Information Te	0		я медицинская акад	цемия» № 35-11(И)-2024
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SKALL	Ra. edu. Ku SKINA. edu. Ku SKINA. edu. Ku SKINA. edu. Ku SKINA. edu. Ku SKINA. edu. Ku	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)	SKNU SKNU SKN SKN SKN SKN SKN SKNU SKNU	13.50 34173 2.547 2.142	completing a practical assignment/ Presentation , computer training, specialized software	to the checklist
10,000	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) Practical class/	Video file and project / According to the checklist MCQ, practical
. K2 du. K a.eo Km3	Kuna.edu.ku	of Smart-services. Green technologies in ICT. Teleconferences. Telemedicine.		5401 14 14 14 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 14 14 14 14 14 14 14 14 14 14 14 14	Discussion, demonstrati on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	assignment, participation in discussion / According to the checklist
12.12 13.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.000	Consultation on completing the individual assignment / Creation of video files with use of programs: VideoPad, CapCut, Windows Movie Maker, etc. Stage 2	Choose a current medical topic. Research and script. Create a storyboard. Use video editing software. Record an edit. Publish.		1/4 L.K.L.K. edu.K. skina skina	SIWT / SIW / Demonstrati on, instruction / Computer training, video editing software (VideoPad, CapCut, Windows	Video file and project / According to the checklist



Syllabus of the course "Information and Communication Technologies"

SOUTH KAZAKHSTAN MEDICAL ACADEMY AO «Южно-Казахстанская медицинская академия»

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1154 1 1.12 	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	2.3 2.5 4.5 5,473 5,473	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
du.k	Consultationoncompletingtheindividualassignment/KeviewContemporaryAIresearchKeview	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 12 2 12 2 12 2 2 2 2 2 2 2 2 2 2 2 2 2	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	214 5Km 24 24 24 24 24 24 24 24 24 24 24 24 24	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
na.edu	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
13	Generative AI tools.	Overview of Generative AI tools. Creating generative art and music using AI tools. Studying possible experiments	LO 4 LO 5 LO 8	SKI30	Practical class/ Discussion, demonstrati	MCQ, practical assignment, participation

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<u></u>		ourse "Information and Communication				page out of 20
5400 44.42 644.42 8.604	ALLANDA SKINA	with various generative art tools to create images and music.	2011.12 2011.12 12.2011.12	12.00 54112 2.540 2.142	on, instruction, completing a practical assignment/ Presentation , computer training, specialized software	in discussion / According to the checklist
KINS.	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	1/4	SIWT / SIW / Demonstrati on, instruction / Computer training, interview	Video report with research results According to the checklist
214 13.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	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	NO.	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
SKINS SKINS SKINS SKINS	Midterm control 2 / Preparation for midterm control 2	Cloud and mobile technologies. Multimedia technologies. Smart technologies. Introduction to AI. Introduction to AI Tools. Generative AI Tools. Information technologies in medicine and pharmacy	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.
15 540 540	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		Practical class/ Discussion, demonstrati on, completing a practical assignment/ Presentation	MCQ, practical assignment, participation in discussion / According to the checklist



completing the individual assignment / AI and Society	e creation a video r impact of AI on v aspects of public	eport about arious	LO 4 LO 5 LO 8	1/5	training, SIWT SIW / Demonstr on, instructio	/ Video with re- rati results Accord n / the che	/ ling to
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Practical class	Discussion, demo Presentation, com	onstration, inst	specializ	zed softw	are	1	
SIWT / SIW							project,
Midterm control	Computer Testing	g (MCQ). Eval	uation is	s carried	out using a	a 100-point s	scale.
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	sing course learning	g outcomes	<u></u>	gh.	YL 9		
outcome	Unsatisfactory		2. 10		XV. V	V ST	ent
purpose, content, and development trends of information and communication technologies, and justify the choice 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.	purpose content of IC general te Has a understanding development trends, but some inaccuracies. Justifies choice technology basic level.	and p T in a erms. o pasic to g of c with su the the in of at a	ourpose, nd mair of ICT we o justi hoice echnolog olving hough wi ninor naccuraci	content, n trends ell. Able fy the of y for tasks, ith some tes.	and development trends of Confidently convincing selects the suitable technologie solving s tasks	opment ICT. and ly most es for specific
for collecting, storing, and processing	explains methods for collecting, storing, and processing information. Does not understand how to implement	methods general terms with errors. describe the l ways implementing processes, the	in n but to Can p pasic th of a re pough c	nethods a o im processes hough spects equire	nd ways pplement well, some may	accurately explains n for coll storing, processing information Confidently	lecting, and n. vays to
	<pre>completing the individual assignment / AI and Society all Exam preparation Teaching Methoo Practical class and Practical class and development trends of information and communication technologies, and justify the choice of the most suitable technologies, and justify the choice of the most suitable technology for solving specific tasks toring, and processing information, and ways to implement information and communication</pre>	completingthe individual assignmentcreation a video r impact of AI on v aspects of public/AI and Society	completing individual assignmentcreation a video report about impact of AI on various aspects of public life.AI and Societyaspects of public life./AI and SocietyExam preparation and conductingTeaching Methods and Assessment FormsPractical classDiscussion, demonstration, inst Presentation, computer training, MCQ, practical assignment, par checklistSIWT / SIWFlowchart, Database, Report an Video report with research resultMidterm controlComputer Testing (MCQ). Eval Assessment criteriaAssessment criteriaUnsatisfactoryExplain information and justify the choice of the most solving specific technology for suitableUnable to explain purpose, content, identifiesfullUnable to explain trends. Unable to information and justify the choice of the most solving specific technology for suitableCan explain purpose tasks.Explain methods for collecting, solving specific tasksIncorrectly trends. Unable to solving specific tasks.Justifies technology for some solving specific tasks.Explain methods for collecting, storing, and information, and information, and waysIncorrectly texplains methods for collecting, storing, and for collecting, storing, and information, and wow to implement information and communicationinformation and information and i	completing individual assignmentcreation a video report about impact of AI on various aspects of public life.LO 5 LO 8AI and Societyaspects of public life.Ion various aspects of public life.Ion various aspects of public life.AI and SocietyDiscussion, demonstration, instruction, Practical classDiscussion, demonstration, instruction, presentation, computer training, specializ MCQ, practical assignment, participation checklistSIWT / SIWFlowchart, Database, Report and flowce Video report with research results / AcceMidterm controlComputer Testing (MCQ). Evaluation is Assessment criteriaCriteria for assssing course learning outcomesLearning purpose, content, the purpose and information and identifiesLearning outcomeUnsatisfactory purpose, content, information and identifiesSatisfactory purpose and identifiesInformation suitableIncorrectly ipustify the choice isolving specific inaccuracies.Inderstanding of contect inaccuracies.Explain information, and pustify and solving specificIncorrectly inaccuracies.Ion development inaccuracies.Explain solving specific for collecting, solving specificIncorrectly enals.Ion development information and for collecting, sental storing, and information, and processingIncorrectly enals.Explains methods in or information and information and informa	completing individual assignmentcreation a video report about impact of AI on various aspects of public life.LO 5 LO 8AI and SocietyIIExam preparation and conducting15Teaching Methods and Assessment FormsIPractical classDiscussion, demonstration, instruction, complet Presentation, computer training, specialized softw MCQ, practical assignment, participation in dis checklistSIWT / SIWFlowchart, Database, Report and flowchart, Rep Video report with research results / According to Midterm controlAssessment criteriaComputer Testing (MCQ). Evaluation is carried Assessment criteriaLearning outcomeUnsatisfactorySatisfactoryExplain information and udevelopment technologies, and solving specific solving specificCan explain the purpose, and purpose, and uderstanding of technology for solving specific tasks.Incorrectly trends, but with solving specific tasks.Explain methods information and justify the choice of the most solving specific tasks.Incorrectly trends, but with someExplain methods information, and processing information, and processingIncorrectly texplains methods storing, and processing tor understand information and processingExplains methods the implement information and processinginformation information and information and in	Consultation on completing the creation a video report about individual assignmentLO 4 impact of AI on various aspects of public life.LO 4 LO 5I/5 SIWT SIWT Demonstr on, instructio Computer training, interviewAI and SocietyImpact of AI on various aspects of public life.ID 8 LO 8Demonstr on, instructio Computer training, interviewExam preparation and conductingISISTeaching Methods and Assessment FormsISPractical classDiscussion, demonstration, instruction, completing a pra Presentation, computer training, specialized software MCQ, practical assignment, participation in discussion / checklistSIWT / SIWFlowchart, Database, Report and flowchart, Report, Vide Video report with research results / According to the check Video report with research results / According to the check to information and identifiesLearning outcomeUnsatisfactorySatisfactoryGoodExplainthe purpose, content, and development trends of information and identifiesCan explain the purpose, content, and main trends information and identifiesCan explain the purpose, content, and main trends, but with of the most of technology for solving specific inaccuracies.Explains the purpose, content, and main trends, but with of the most of technology for solving specific tasksIncorrectly technology at a basic level.Explains the methods in technology at a basic level.Explain methods information, and processing ways to information and how to implement processing storing, and <b< td=""><td>Consultation on completing the individual assignment Conducting research and creation a video report about individual aspects of public life. LO 4 LO 5 SIW/ 1/5 SIW/ SIW/ Video with re- second instruction / AI and Society aspects of public life. LO 8 aspects of public life. LO 8 SIW/ SIW/ Video SIW/ Accord instruction / AI and Society aspects of public life. 15 Teaching Methods and Assessment Forms Teaching Methods and Assessment Forms Practical class Discussion, demonstration, instruction, completing a practical assig Presentation, computer training, specialized software MCQ, practical assignment, participation in discussion / According checklist According the checklist SIWT / SIW Flowchart, Database, Report and flowchart, Report, Video file and p Video report with research results / According to the checklist Midterm control Computer Testing (MCQ). Evaluation is carried out using a 100-point of Assessment criteria Criteria for assssing course learning outcomes Explain purpose, content, information and identifies Satisfactory general terms. Good Excelle explains undevelopment cechnology for suitable Incorrectly solving specific Satisfactory solving secific Good Excelle explains trends. Inable to explain technology for suitable Incorrectly Explains the Clear</td></b<>	Consultation on completing the individual assignment Conducting research and creation a video report about individual aspects of public life. LO 4 LO 5 SIW/ 1/5 SIW/ SIW/ Video with re- second instruction / AI and Society aspects of public life. LO 8 aspects of public life. LO 8 SIW/ SIW/ Video SIW/ Accord instruction / AI and Society aspects of public life. 15 Teaching Methods and Assessment Forms Teaching Methods and Assessment Forms Practical class Discussion, demonstration, instruction, completing a practical assig Presentation, computer training, specialized software MCQ, practical assignment, participation in discussion / According checklist According the checklist SIWT / SIW Flowchart, Database, Report and flowchart, Report, Video file and p Video report with research results / According to the checklist Midterm control Computer Testing (MCQ). Evaluation is carried out using a 100-point of Assessment criteria Criteria for assssing course learning outcomes Explain purpose, content, information and identifies Satisfactory general terms. Good Excelle explains undevelopment cechnology for suitable Incorrectly solving specific Satisfactory solving secific Good Excelle explains trends. 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	Departmen	ан медицина академиясы» t "Medical Biophysics ar e course "Information and	nd Information Technolo		м академия» № 35-11(И)-2024 11 page out of 20
sky kl bulk a.eo LO4	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.	purpose, and functions of key components well,	accurately describes the architecture of computer systems and networks, as well as the functions of all key components.
ski ski ski	resources, cloud services, and mobile applications for searching, storing, processing, and disseminating information	effectively utilize internet resources, cloud services, and mobile applications.	tools at a basic level but with limited effectiveness.	internet resources and applications, though there is room for improvement.	confidently uses all listed tools to accomplish tasks.
LO5 SKMP SK	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.
LOG	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	Does not demonstrate understanding or ability to apply AI theory and	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

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		hysics and Information Technologies" ation and Communication Technologies"	№ 35-11(И)-2024 12 page out of 20
and the second	VI ST. M	arion and communication reenhologies	
the use of intelligent software s	ystems		ise of software ystems.
	for assessing	- 2. Hur S. Gr. Hr - 2. Hur S.	JU. 1
W. K. Z.	essing practical class	AL SHIRE OF STREET STREET	Points
Form of Work	Criterion	Description	(max 100)
S S S	Str. Mr. Str.	All answers are correct	17-20
ing	EL IST CARO 20	Most answers are correct, but there are errors	12-16
Testing 20 points	Quality of Answers	Partially correct answers	7-11
	W. Kr St. M	Many incorrect answers	0-6
1 7 54 6	ear the ser	Fully completed with correct results	50-55
n 0 er (ts)	Completeness of	Completed, but with minor errors	35-49
upletio dividu mput Task) point	Task	Partially completed with significant errors	20-34
Completion (Individual Computer Task (60 points)	C. S. Sh. K	Task completed partially or with multiple errors	
CO CO	Adherence to	On time Late	
<u>-0~ /// //</u>	Deadlines		
(3. = CO, 1). H	1. Hand	Active participation, constructive comments	5-10
s ni	Activity in Participation	Participation with minimal comments	3-4
ipation cussion points)	1 articipation	Passive participation or lack of constructi	ve 0-2
Participation Discussion (20 points)	Quality of	Clearly formulated and justified arguments	5-10
D iati		Arguments present but not always justified	3-4
KIP SK (Argumentation	Arguments absent or unconvincing	0-2
Checklist for ass	essing SIW		ed the
SIW 1	A C AV	A Strange construct att	S. CON 14
Form of Work	Criterion	Description	Points (max 100)
Ces	Accuracy of the Flowchart	The flowchart is fully accurate and reflects necessary components and processes	20-25
of computer devices cidchart tool) 40 points)	2011.12. K2 SK1.	The flowchart is mostly accurate, but there a minor errors	15-19
iputer rt tool nts)		The flowchart has significant errors, with son components and processes missing	5-14
of compu cidchart t (40 points)	AST CONTRA	The flowchart is inaccurate or incomplete The flowchart is clearly designed in Lucidcha	0-4
$\Xi \smile$	Readability and Design	all elements are easily readable and logica	
Flowchart (Lu		The flowchart is generally readable, but there a minor design flaws	5-9
24 B. 600	N. K. Skiller	Readability and design hinder understanding the flowchart	of 0-4
Maxe (MS Acces s) (60 (60 point	Tables	All necessary tables are created, proper structured, and relationships between tables a established	

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			5 page out of 20
sking a. et	No. K. Skith	Tables are created, but there are errors in structure or not all relationships are correctly set	e 10-14
12 SKIMO	eocou. K	Tables are partially created, with significant errors in structure and relationships	5-9
HI SKI	13. 60V . Hr	Tables are missing or incorrect	0-4
dut K2 SK	Ma. 2. edu Ju.	All necessary forms are created, functional, and user-friendly	7-10
2.edu JU.K. KI	Forms	Forms are created, but their functionality or design needs improvement	4-0
No. Ser Your	I st a	Forms are partially created or incorrectly designed	1 0-3
KUU US. Er Equ	N. H. 1 SK KMO	Queries are correct, efficiently retrieve and process data	1 10-15
1. skirma.a.e	Queries	Queries are created but work inefficiently or contain errors	r 5-9
	D. D. Hr	Queries are partially created or incorrect	0-4
J.K. KI 3. SKU	na. edu, u.K.	Reports are created and accurately display query results and data	/ 10-15
edu, w.Kr 5	Reports	Reports are created, but their content or forma needs improvement	t 5-9
er win v	St. No. of	Reports are missing or incorrect	0-4
SIW 2	VI St do.	en 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in at
Form of Work	Criterion	Description	Points (max 100)
St no.	80 JU. VI SK	The network topology is clearly described with al	15 20 10

Form of Work	Criterion	Description	Points (max 100)
hcare	a.edu.r. K. Skr	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
Flowchart of network topology of the healthcare facility (Strike Network Diagram tool) (50 points)	SKIII B. Edu.	The description is vague or missing significant parts	5-9
and a start	1 54° 40° 60	The description is unclear or incomplete	0-4
rk topolog facility twork Diag (50 points)	XI SKIMANA	The flowchart accurately represents the network topology as described	15-20
ork topol facility twork Di (50 point	Accuracy of the	The flowchart is mostly accurate but contains minor errors	10-14
netwo ke Ne	Flowchart Justification of Decisions	The flowchart has significant errors or omits key elements	5-9 5-
fti of		The flowchart is inaccurate or incomplete	0-4
S. S.		The choices for network design are well-justified with logical reasoning	5-10
Howe		Justification is provided, but it requires improvement	3-4
<u>20. 60.</u>	1. 1. Hunde	Justification is missing or unconvincing	0-2
s of us of ion	Study of Antivirus Functionality	The functionality of antivirus programs is thoroughly and correctly studied	15-20
comparative e analysis of anti-virus means of information protection"		The functionality is studied, but there are omissions or minor errors	10-14
		The functionality is partially studied with serious errors	5-9

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			35-11(И)-2024
Syl	labus of the course "Inform	nation and Communication Technologies"	page out of 20
sking. eou	N. H. J. Skall	The functionality is not studied or the work is incorrect	0-4
I skina	eocolu, kr. 1.	The comparative analysis of antivirus programs is clear, logical, and well-founded	15-20
in A shi	Comparative Analysis	The analysis is conducted, but with insufficient detail or errors	10-14
edu. Kr. K.	SKIND 3. COUNT	The analysis is partially conducted or has significant errors	5-9
3. 600	1. 3. All	The analysis is missing or completely incorrect	0-4
mara.edu	Quality of Report	The report is clearly presented, includes all necessary elements, tables, or diagramsThe presentation is generally good, but there are	5-10
sknina.e.e	Presentation	The presentation is generally good, but there are minor issues The presentation makes it difficult to understand	3-4
STAR 2 Star	D. C. Church H. C.	the content of the report	0-2
SIW 3	(13. CO XU.H.	1 A Road Barrier All States	Points
Form of Work	Criterion	Description	(max 100)
d to ices	Searching for Specialty-Related Information Using Cloud Services for Data	Relevant information on current medical topics and educational resources is found	30-40
tion related to cloud services rocessing"		Information is mostly relevant but has minor omissions	20-29
lou		Search is incomplete or contains minor errors	10-19
nat prc		Search is not done or is completely incorrectAccount is created, cloud collaboration is	0-9
inforr t, usin l data ⁷ ord) ints)		Account is created, cloud conaboration is organized, and requirements are met Account is created but has minor issues in	14-20
for and Dpc	Storage	collaboration	7-13
ng l I 10(Storage	Cloud work is partially completed or has errors	0-6
Report "Searching for informati specialty on the Internet, using cl for data storage and data pro (MS Word) (100 points)	Using Cloud Services for Data	Data analysis and visualization are done using Google Sheets	30-40
t "Se ulty on r data		Data analysis and visualization are done, but contain errors	20-29
Report specialt for	Processing	Data analysis is partial or has significant errors	10-19
sp Re	20 11. 12 3	Data analysis is not done or is done incorrectly	0-9
SIW 4	a.e. du. vi	Stringer consulting a starting and all	H-19-1
, etc.)	KUUS - S. Edu	Topic is current, research is thorough, and script is written	30-40
Video File (VideoPad, CapCut, Windows Movie Maker, (100 points)	Topic Choice and Research	Topic is chosen, but research or script needs improvement	20-29
Video File eoPad, Cap s Movie Ma (100 points)		Topic is chosen, but research is superficial and script has errors	10-19
Video VideoPad, ows Movie (100 po		Topic is not chosen or research and script are completely missing	0-9
Winde	Creation of Storyboard	Storyboard is detailed and reflects the content of the video	14-20
· A St	10. 0° 10. 10	Storyboard is created but requires improvements	/-13

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<u> </u>	Her Stringe	or the the the the the the	At at
skinna. ed	UNIT 2 St AMO	Storyboard is partially done or does not reflect the content of the video	0-6
VI SKIMON	ecedu. KI SK	Video is edited professionally, with good quality recording and editing	30-40
· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Use of Video Editing	Video is edited with minor errors	20-29
du. K2 SK	Software	Video is edited, but quality of recording or editing is poor	10-19
dv . Kr	2, 14, 5, 10,	Video is not edited or edited poorly	0-9
SIW 5	St fly Co	wind shi dia. on with I shi	<u>, 2. 00.</u>
Form of Work	Criterion	Description	Points (max 100)
Y	Accuracy and	The latest and most relevant studies and publications are presented	15-20
Report of Contemporary Research" (MS Word) (30 points)	Relevance of Information	Studies are presented but with outdated data or partially relevant information	10-14
rt brdj tts)	momunon	Studies are incomplete or insufficiently current	5-9
Report Conten esearch IS Word 0 points	The Star Charles	Information is incorrect or missing	0-4
	skina. 2.edu	In-depth and substantial analysis, clearly formulated conclusions	8-10
"Review	Quality of Analysis	Analysis is done but with shortcomings or weak conclusions	5-7
, ⁸	N. KI SKickmon	Analysis is superficial, conclusions are unconvincing	0-4
s of	duin Ht ski	Thorough comparison of the functional capabilities of various AI tools	10-15
rt Analysis of Is " ord) its)	Comparison of Functionality	Comparison is done but with shortcomings or inaccuracies	5-9
Report barative Ana AI Tools " (MS Word) (30 points)	Kung ecolutiv	Comparison is superficial or insufficiently justified	0-4
Repo Comparative . AI Tool (MS Wo (30 poir	Stephing and edit	Evaluation of the effectiveness of AI tools is conducted and justified	10-15
	Analysis of Effectiveness	Effectiveness is evaluated but not fully justified	5-9
K S CO		Effectiveness is evaluated incorrectly or unconvincingly	0-4
h ws (ts)	so duit the set	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	10-14
h ru lit, V (4)	KUL VICE YOU, K	Research is superficial or insufficiently detailed	5-9
vitl Soc tc.)	st do by mi	Research is not conducted or is poorly executed	0-4
Video report with resc results "AI and Society" (VideoPad, CapCut, Wi Movie Maker, etc.) (40 (50 points)	Quality of Video Report	Video report is well-structured, professionally edited, and presents all research findings	15-20
leo re "AI 30Pad [e Ma]		Video report is created but contains minor errors or lacks structure or editing quality	10-14
Vid (Vide Movi	edu K Skin	Video report is created but has major errors or weak structure	5-9
	V W YY ST	Video report is missing or poorly executed	0-4
Check List for m		Strate with the second to the	
Computer testing	Nº W W	Max 100 Min	n 50

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	ting is conducted			90-1	125° 44 44	Exellent
	t consists of 50 q		J. 1.	70-8		Good
		using a 100-point scale.	11.1.1.	50-6	9	Satisfactory
	ration of the test i	s 50 min.	000 . Kr	<50	<u>.</u>	Unsatisfactory
Final co	ontrol	en the states	·	Fr S	V(I)	ic ju vi
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T. di	B-C XV	2,67	75-79			Good
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~90	F	0	0-24	111.F		unsatisfactory
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3				https://www.aknurpress.kz/		
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 M. A. Bardieva A. A. Maulanova, "Drawroov memory and (27.0 M5)," Sharehout for all 2022

М. А. Berdieva, А. А. Maulenova. - Электрон. текстовые дан. (27.0 Мб). - Shymkent: [s. n.], 2023. - 303 эл. опт. диск (CD-ROM).

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«Оңтүстік Қазақстан медицина академиясы» АҚ УАО «Южно-Казахстанская меди Department "Medical Biophysics and Information Technologies"	щинская академия» № 35-11(И)-2024
Syllabus of the course "Information and Communication Technologies"	17 page out of 20
8. Urmashev B.A. Information-communication technology: Textbook/ Ministry of he Republic of Kazakhstan, Association of higher educational institutions of Bookprint, 2016 413 p. http://rmebrk.kz/book/1165091	
Laboratory physical resources	in the st
– Desktop computers;	2.00 NV. VI
– Networking equipment;	me see dui VI
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- Projector;	
Mobile devices (tablets and smattphones). Software	A St. No. CO
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 Microsoft Office (Word, Excel, Access, Power point); Lucidchart tool; 	Nr. KI St. no
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Main Literature	1 st dia en
 Association of higher educational instutions of Kazakhstan, 2016 4. Koshimbaev Sh.K. Automation of standard technological processes [Text]: texth B.A. SuleimenovAlmaty:[s.n.], 2016 266p. 5. Methods of teaching computer science [Teкct]: Textbook / E. Bidaibekov [a 2016 359 p. 6. Nurpeisova T.B. Information andCommunication Technologies: Text-book Kaidash Almaty: Bastau, 2017 480 p. 7. Manapov N.T. Computer chemistry [Teкct] : textbook/ N.T. Manapov Almateducational institutions of Kazakhstan, 2016 312 p 8. 	and etc.] Almaty:[s.n.] / T.B. Nurpeisova, I.N ty: Association of higher
I. Қойбағарова Т.Қ. Информатика: оқу-әдістемелік құралы - толықт.2-бас А	
 Информатикадан тест тапсырмаларының жинағы: оқу-әдістемелік құрал- А Course Policy and Requirements 	лматы: эверо2014
12. Course roncy and Requirements 1. Attendance: Regular attendance is mandatory. Students must attend at leas	t 80% of the classes to
qualify for the final examination. Participation in all scheduled activities, inclu	
SIWs is essential.	4 3. 00 K
2. Assignments and Projects: All assignments and projects must be submitted or	
will incur penalties unless prior arrangements have been made with the instructor.	Assignments must meet
he specified criteria and be submitted in the required format. 3. Examinations and Assessments: Two midterm assessments will be conducted	I during the competer
he seventh and fourteenth weeks, respectively. Passing these midterm assess	
eligibility to sit for the final exam. The results of the midterm assessments will be	
n the form of a report at the end of the assessment week. Both midterm controls	wara consequences
strict examination conditions, and any form of academic dishonesty will result in set 4. Grading Policy: The final exam grade will be calculated as the sum of the current	

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	АКАДЕМІАЅҮ «Оңтүстік Қазақстан медицина академиясы» АҚ АО «Южно-Казахстанская и	медицинская академия»
8	Department "Medical Biophysics and Information Technologies"	№ 35-11(И)-2024
9.	Syllabus of the course "Information and Communication Technologies"	18 page out of 20

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

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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ОЙТÚSTIK-OAZAOSTAN MEDISINA АКАДЕМІАЅҮ «Оңтүстік Қазақстан медицина академиясы» АҚ ОЙТÚSTIK-OAZAOSTAN MEDICAL АСАДЕМҮ АО «Южно-Казахстанская медицинская академия»		
Department "Medical Biophysics and Information Technologies"	№ 35-11(И)-2024	
Syllabus of the course "Information and Communication Technologies"	19 page out of 20	
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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
1. Biophysics	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 Medical Biophysics and IT Protocol № <u>//</u> "go" <u>os</u> 202 <u>y</u> y. Head of the Department to Ph.D., ass. professor Ivanova M.B.



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