Department «Medical Biophysics and Information Technology» Discipline work program (Syllabus)

Discipline work program (Syllabus) Educational program 6B10111-«Public health»						
1.	General information about the Course					
1.1	Course code: ICT 1105	1.	6	Academic year: 2023-2024		
1.2	Course name: Information and communication technol			Year: 1		
1.3	Prerequisites: -	1.	8	Term: 1		
1.4	Post-requisites: Introduction to scientific research (pub health and biostatistics)	olic 1.	9	Number of credits (ECTS): 5		
1.5	Cycle: general education discipline	1.	10	Component: main component		
2.	Course description					
and te techno develo	An ICT role in key sectors of development of soci ting systems. Human-computer interaction. Database sy elecommunications. Cybersecurity. Internet technology ology. E-technology. Information technology in the opment of ICT.	ystems. D . Cloud,	Oata an mobil	alysis. Data management. Networks e technology. Multimedia, SMART		
3.	Summative assessment form		1			
3.1	Testing V	3.5	Cou	rsework		
3.2	Writing	3.6	Essa			
3.3	Oral	3.7	Proj			
3.4	OSPE / OSCE or Practical Skills Acceptance	3.8	Oth	er (specify)		
4.	Discipline objectives The purpose of the discipline					
practio	Formation of students 'competence systems in the use cal and scientific activities Learning outcomes (Course learning outcomes)					
CLO 2	and epidemiological well-being of the population.					
	sanitary and epidemiological welfare of the populati		1113 111 (ne protection of public hearth and		
CLO 3	• • • • • • • • • • • • • • • • • • • •	evaluatin	g, and	analyzing health statistics within the		
CLO 4	measures. Conducts visual agitation and promotion	of a heal	thy life	estyle, interacting with the media.		
CLO :	LO 5 Conducts social work among the decreed layer of the population with explanations of issues of medical and hygienic education, lifestyle correction, medical and social aspects of major diseases.					
	CLO 6 Conducts current and preventive supervision, assessment and correction of activities in the field of public health and sanitary and epidemiological welfare of the population. Prepares the necessary accounting and reporting documentation in the health information system.					
CLO 7	field of public health and sanitary and epidemiological welfare of the population.					
5. 1	Č	111 1	1.1 1			
CLO	1 CLO 1 Applies the basic concepts and methods of p modern history, "Social Medical Insurance and Pub program 7 p. out of 25 philosophy and socio-politic with the use of modern information technologies.	lic Healtl	h" depa	artment 044-58/ Educational		
OIO	O 2 I C C through in the transit declarate of the brightness of the Doubling for a survey					

LO 6 It works in electronic databases of the healthcare system of the Republic of Kazakhstan, ensures the maintenance of the necessary accounting and reporting documentation in healthcare organizations

CLO₂

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		through electronic document management and archiving programs. CLO 9 Determines public health risk factors for calculating, evaluating and analyzing quality								
CLC										
				vironmer	ntal objects, sun	nmarizing its	own concl	usio	ns in the form	of
		mendat								
6			course							
6.1					.rabi-1 sq., SKM address: fiz_mat			oor, C	Classrooms No.	500-511.
6.2				ture		lessons	Lab.lesso	ns	SIW	SIWT
	of hou	rs		0		40	-		70	30
7.			about tea							
$N_{\underline{0}}$	Full na	me	_	es and tle	Email address	Scientific in	nterests, etc	c.	Achieve	ements
1.	Ivanova M Borisovna	arina	PhD, Pr	rofessor	marina- iv@mail.ru	equations. No processing	equations. Medical data processing with STATISTICA, SPSS.		Author of over publications, monograph, aids, an electro "Biostatistics",	one 6 teaching onic textbook
2.	Berdiyeva Meruyert		PhD		meruert ber dieva	Innovative t	teaching	2	electronic dicti Author of over and methodica	onary "ICT". 30 scientific
2	Aimambet		Mastari	-1	@mail.ru	II.	-4-4:-4:	i	book, 11 methodica instructions.	
3	Abdrimova Zakhira Maratovna		Master's Senior t	_	zakira75@m ail.ru	analysis STATISTIC	Using statistical analysis software STATISTICS for medical data processing		Author of the textbook "Collection of reports from biostatistics" in the Kazakh language. "ICT". Author of several scientific articles.	
4	Maulenova Akmaral Aitbekovna		Master's Senior t	_	maral_tasken @mail.ru	Innovative methods	teachir	ng a	Author of over scientific 10 and methodical articles, 1 book	
8.	Them	atic pla	n					I		
We	Topic nan		<u></u>	Summa	ry		Course	Nu	Forms /	Forms /
ek/ Da y	•				·		learnin g outcom es	er	learning technologie s	assessme nt methods
1	- _ -		role in key at of society. een ICT and eigectives of a eent in the on. Standards T.Review of Evolution of Architecture f computer uter systems.		1	Lecture information	Feedback (quick survey)			

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	PRACTICAL LESSON Calculation of metrics of productivity of computer system: speed, efficiency, energy costs, Amdahl's law, CPU time. SIWT. Consultation on the implementation of an individual task 2 Development of	Computer lab rules. Architecture and components of computer systems. Use of computer systems. Data representation in computer systems. Computer system: speed, efficiency, energy costs, Amdahl's law, CPU time. Consultation on the implementation of an individual task 1	CLO2 CLO3 CLO4 CLO3	2/5	seminar individual task individual task	oral survey Solve problems Logical flowchart s
	flowcharts of computer devices. Stage 1					
2	LECTURE. Software. Operating systems. Human-computer interaction.	Software. Types of the software, purpose and characteristic. Basic concepts of OS. Evolution of operating systems. Classification of operating systems, including 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. Physical and mental characteristics of the user. Development stages of the user interface. Types of testing of interfaces (testing of users). Perspectives of development of interfaces.	CLO1	1	Lecture information	Feedback (quick survey)
	PRACTICAL LESSON. Determination of properties of an operating system. Operation with files and directories.		CLO1 CLO2 CLO7	3	practicum individual task	oral survey practical work
	SIWT Consultation on the implementation of an individual task 2 SIW.Development of flowcharts of operation of devices of the computer. Stage 2.	Graphical method of describing the algorithm for solving the problem	CLO3 CLO7	2/5	individual task	compilin g the glossary
3	PRACTICAL LESSON. Determination of requirements to development "convenient in application" the website.	Working with programmer Mobirise.	CLO2 CLO3	2	computer based teaching	individua l task, oral survey
	SIWT Consultation on the implementation of an	Creation of databases in MS Access for application in professional	CLO4 CLO5	2/4	individual task	creating database

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1 1	individual task 3	sphere				
	SIW. Collecting, the	sphere				
	analysis and					
	structurization of data in					
	the professional					
	environment					
	(development of the					
	database in the MS					
	Access). Stage 1.					
4	LECTURE.	Bases of database systems: concept,	CLO1	1	Lecture-	Feedback
-	Database systems	characteristic, architecture. Data	CLOI	1	information	(quick
	Database systems	models. Normalization. Integrity			momation	survey)
		constraint on data. Query tuning				Sur (Cy)
		and their processing. Fundamentals				
		of SQL. Parallel processing of data				
		and their restoration. Design and				
		development of databases.				
		Technology of programming of				
		ORM. The distributed, parallel and				
		heterogeneous databases.				
	PRACTICAL LESSON.	The database management system:	CLO6	3		oral
	Development of database	definitions and functions, basic			computer	survey
	structure, creation of	architectural solutions. The date			based	creation
	tables and requests.	model of DB. Creating medical			teaching	of tables
	Working with a MySQL	database: tables, queries. Working				and
	relational database.	with Forms and Reports.				requests.
	MySQL database					
	administration using php					
	MyAdmin. Working with					
	a single-table database.		GT 0.4	2/1		2
	SIWT. Consultation on	Creation of databases in MS Access	CLO4	2/4	individual	for .
	the implementation of an	for application in professional	CLO5		task	preparati
	individual task 4	sphere				on
	SIWT.Collecting, the					crosswor
	analysis and					d
	structurization of data in					
	the professional environment					
	(development of the					
	database in the MS					
	Access). Stage 2.					
5	LECTURE. Data analysis.	Data analysis bases. Methods of	CLO 1	1	Lecture	Feedback
	Data management	collection, classification and		1	information	(quick
		prediction. Decision trees.				survey)
		Processing of large volumes of data.				
		Methods and stages of Data mining.				
		Tasks Datamining. Visualization of				
		data.				
	PRACTICAL LESSON.	Creating of presentations, entering	CLO2	3	computer	individua
	Design and creation of	text on a slide. Adding of pictures			based	1 task
	the presentations of	and clip art. MS PowerPoint: adding			teaching	spreadsh

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cture material scientific of hyperlinks anim	mations and sound		eets ora

	lecture material, scientific reports, etc.	of hyperlinks, animations and sound effects				eets, oral survey
	SIWT Consultation on the implementation of an individual task 5 SIW. Description of network topology of the office building. Stage 1.	Software, hardware of networks using in the office building	CLO4 CLO5	2/4	individual task	creating presentat ion
6	PRACTICAL LESSON. Processing of numerical information, editing formulas and creation of charts in spreadsheet editors.	The database management system: definitions and functions, basic architectural solutions. The date model of DB. Creating medical database: tables	CLO2 CLO3	2	computer based teaching	individua l task, oral survey
	SIWT Consultation on the implementation of an individual task 6 SIW. Description of network topology of the office building. Stage 2.	Software, hardware of networks using in the office building	CLO4	2/4	individual task	creating of MCQs
7	LECTURE. 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. Telecommunication technologies.	CLO 1	1	Lecture information	Feedback (quick survey)
	PRACTICAL LESSON. Creation of a simple network configuration. IP addressing. Monitoring of a network. Analysis of traffic. Use of sniffers for the analysis of network packets.	Networks and telecommunications. Classification of networks. Types of topologies. Types of servers.	CLO2 CLO3	3	Work in pairs, partial search	individua l task, oral survey
	SIW. midterm control 1 accepting SIWT. Preparation for the midterm control1			2/4	-	Testing MCQ
8	LECTURE. Cybersecurity	Security risks of information and their classification. Industry of cybersecurity. Cybersecurity and control of the Internet. Malicious applications. Measures and means of information protection. Standards and specifications in information security field. The acts of the Republic of Kazakhstan governing legal relations in the	CLO1	1	Lecture information	Feedback (quick survey)

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		sphere of information security. Electronic digital signature. Encryption.				
	PRACTICAL LESSON. 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.	Security risks of information and their classification. Measures and means of information protection. Antivirus software. Archiving utility.	CLO 3	3	Work in pairs, computer based teaching	individua l task, oral survey
	SIWT Consultation on the implementation of an individual task 8 SIW. Comparative analysis of antivirus means of information protection. Stage 1,2.	Development of presentation and web site with information base about anti-virus programs	CLO4 CLO5	2/4	individual task	compilin g the glossary for pre- paration crosswor d
9	PRACTICAL LESSON. Data acquisition from the server. Working with WordPress and Joomla web content management systems. Development a website design using Photoshop multifunctional graphic editor and CSS style sheet language. Using of the previously developed MySQL database for the work of the website.	Development a website design using Photoshop multifunctional graphic editor and CSS style sheet language	CLO2 CLO3	2	work in pairs, tasks	individua l task, oral survey
	SIWT Consultation on the implementation of an individual task 9 SIW. Information search in a specialty profile on the Internet, use of cloud services for storage and data processing. Stage 1	Information search in a specialty profile on the Internet, use of cloud services for storage and data processing.	CLO4	2/3	individual task	Logical circuits on this topic
10	LECTURE. Internet technology. Cloud and mobile technology	Basic Internet concepts. The Uniform Resource Identifier (URI), its assignment and components. DNS service. Web technologies: HTTP, DHTML, CSS, and JavaScript. E-mail.	CLO 1	1	Lecture information	Feedback (quick survey)

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	PRACTICAL LESSON. Introduction to Google	Message format. SMTP, POP3, IMAP protocols. 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. GSM a signalling. Internet technologies. History of the Internet development. Basic	CLO3	3	Computer	
	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. GSM a signaling.	Internet concepts. Cloud technologies. Efficiency of cloud technologies application. Working with mobile applications. Internet technologies. History of the Internet development. Basic Internet concepts. Cloud technologies. Efficiency of cloud technologies application. Working with mobile applications.			teaching	individua l task, oral survey
	SIWT Consultation on the implementation of an individual task 10 SIW. Information search in a specialty profile on the Internet, use of cloud services for storage and data processing. Stage 2	Information search in a specialty profile on the Internet, use of cloud services for storage and data processing.	CLO4 CLO5	2/3	individual task	compilin g the glossary preparati on crosswor d
11	LECTURE. Multimedia technology. Smart technology	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	CLO 1	1	Lecture information	Feedback (quick survey)

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		technologies for planning, descriptions of business processes and their visualization.				
	PRACTICAL LESSON. Creation of video files with use of programs: HyperCam, Adobe Premiere Pro, Windows Movie Maker, etc.	Creating of video files by means of Windows Movie Maker. Use of multimedia technologies for planning, descriptions of business processes and their visualization.	CLO2	3	computer based teaching	creating of video
	SIWT Consultation on the implementation of an individual task 11 SIW. Creation of an emblem, the video and other materials on a specialty profile means of multimedia technologies. Stage 1.	Creation of an emblem, the video and other materials on a specialty profile means of multimedia technologies.	CLO4 CLO5	2/3	individual task	creating of video, preparati on crosswor d
12	Operation with Smart- applications: Smart TV, Smart Hub, etc.	Creation project skills by working with Google Slides.	CLO2 CLO3	2	seminar	individua 1 task, oral survey
	SIWT Consultation on the implementation of an individual task 12 SIW. Creation of an emblem, the video and other materials on a specialty profile means of multimedia technologies. Stage 2.	Creation of an emblem, the video and other materials on a specialty profile means of multimedia technologies.	CLO4 CLO5	2/3	individual task	creating of an emblem, compilin g the glossary
13	LECTURE. E-technology. Electronic	Electronic business: Main models of electronic business. Information infrastructure of electronic business. Legal regulation in electronic business. Electronic training: architecture, structure and platforms. Electronic textbooks. Electronic government: concept, architecture, services. Formats of implementation of the electronic government in developed countries.	CLO 1	1	Lecture information	Feedback (quick survey)
	PRACTICAL LESSON. Operation with services on the website of the electronic government http://egov.kz/cms/ru/gov ernment-service s/for_citizen: registration of requests, obtaining	Electronic government: concept, architecture, services. Formats of implementation of the electronic government in developed countries. "Infrastructure of e-government. E-services in the Healthcare."	CLO3	3	computer based teaching	individua l task, oral survey

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counterparts of			

	counterparts of documents, etc					
	SIWT Consultation on the implementation of an individual task 13 SIW. Presentation and protection of the main results of design activity in the specialty. Stage 1,2.	Presentation and protection of the main results of design activity in the specialty.	CLO4 CLO5	2/3	individual task	develop ment of graphic objects on medicine
14	LECTURE. Information technologies in the professional sphere. Industrial ICT. Prospects of development of ICT	The software for the solution of tasks of the specialized professional sphere. Modern IT trends in the professional sphere: medicine, power, etc. Use of search engines and electronic resources in the professional purposes. Safety issues in industrial information and communication technologies. Prospects of development in the sphere of the IT market: development of the free software. Forming of an ecosystem of IT of entrepreneurship and support small startup of the companies. Programs of acceleration and incubation. Development of necessary infrastructure of electronic payments and logistics. Prospects of development of E-technologies	CLO 1	1	Lecture information	Feedback (quick survey)
	PRACTICAL LESSON. Development of structure and the maintenance of a lesson in the environment of remote learning: Moodle, eDX, etc.	Development of structure and the maintenance of a lesson in the environment of remote learning: Moodle, eDX, etc.	CLO2	3	computer based teaching	individua 1 task, oral survey
	SIW. midterm control 2 accepting SIWT. Preparation for the midterm control 2			2/3		Testing MCQ
15	PRACTICAL LESSON. Installation and use of application programs in the professional sphere. Working in the Matlab environment for scientific and technical computing. Working with the Matlab toolboxes for applied problem solving.	Installation and use of application programs in the professional sphere. Introduction to STATISTICA 10. Setting documents appearance and working with charts in STATISTICA 10.	CLO2 CLO3	2	computer based teaching,	individua l task, oral survey
	SIWT Consultation on the implementation of an	Feedback from students about the results of learning outcomes.	CLO4 CLO5	2/3	individual task	creating of MCQ

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inc	dividual task 15.					
		he				
		of				
	idents.	01				
	cam preparation and co	anduating		15		
9.				13		
		and Control Forms	-4: (f 411: -1-			
9.1	lectures	•	ation (feedback quick			
9.2	Practical lessons		oral survey, solve pr		•	
9.3	SIW / SIWT		logical flowchart scre	een recording video, j	project, presentation	
9.4	Mid-term examinati					
10.	Evaluation criteria					
10.1.		ting the learning out	tcomes of a subject			
№ LO	Name of learning outcomes	Dissatisfying	Satisfying	Good	Excellent	
LO 1	Demonstrates	1) Partly acquired	1) Acquired basic	1) Acquired basic	1) Acquired basic	
	knowledge owns	basic terms of	terms of ICT;	terms of ICT;	and extended	
	information	ICT;	2) Partly knows	2) Partly knows	terms of ICT;	
	technology,	2) Partly knows	the role of ICT in	the principles and	2)Knows the main	
	effectively uses	the role of ICT in	key aspects of	the role of ICT in	principles and the	
	information in the	key aspects of	developed society;	the key aspects of	role of ICT in the	
	field of healthcare.	developed society;	3) Partly defines	developed society;	key aspects of	
		3) Does not define	the characteristics	3) Defines the	developed society;	
		the characteristics	of modern perso-	characteristics of	3) Defines the	
		of modern perso-	nal computer;	modern personal	characteristics of	
		nal computer;	4) Partly orients in	computer;	modern personal	
		4) Does not orient	information	4) Orients in	computer;	
		in information	recycle, important	information	4) Orients in	
		recycle, important	in solving tasks	recycle, important	information	
		in solving tasks	(massive informa-	in solving tasks	recycle, important	
		(massive informa-	tion tools, databa-	(massive informa-	in solving tasks	
		tion tools, databa-	ses, information	tion tools, databa-	(massive informa-	
		ses, information	and communica-	ses, information	tion tools, databa-	
		and communica-	tion systems,	and communica-	ses, information	
		tion systems,	Internet dictiona-	tion systems,	and communica-	
		Internet dictiona-	ries, glossaries	Internet dictiona-	tion systems,	
		ries, glossaries	encyclopedia and	ries, glossaries	Internet dictiona-	
		encyclopedia and	etc.);	encyclopedia and	ries, glossa-ries	
		etc.);	5) Partly knows	etc.);	encyclopedia and	
		5) Does not know	about following	5) Partly knows	etc.);	
		about following	safety require-	about following	5) Knows about	
		safety require-	ments and hygiene	safety require-	following safety	
		ments and hygiene	during the work	ments and hygiene	requirements and	
		during the work	with computers.	during the work	hygiene during the	
		with computers.		with computers.	work with	
LO 2	Explain the	1) Poorly	1) Partly classifies	1) Can classify the	1) classifies the	
	methods of	classifies the	the functional	functional circuits	functional circuits	
	collection, storage	functional circuits	circuits of the	of the computer	of the computer	
	and processing of	of the computer	computer and their	and their devices;	and their devices;	
	information,	and their devices;	devices; 2) Partly	2) Can compare	2) Can compare	
	methods of	2) Finds difficult	compares the sizes	the sizes of files	the sizes of files	

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	1	, ,1	C C'1	C 1:CC .	C 1°CC .
	implementation of	to compare the	of files of different	of different	of different
	information and	sizes of files of	formats that store	formats that store	formats that store
	communication	different formats	the same	the same	the same
	processes in the	that store the same	information	information	information
r	medicine	information	3) Poorly	3) Evaluates	3) Evaluates
		3) Poorly	evaluates	information,	information,
		evaluates	information,	including	including
		information,	including	information	information
		including	information	received from the	received from the
		information	received from the	media; does not	media; does not
		received from the	media; does not	know how to	know how to
		media; does not	know how to	distinguish correct	distinguish
		know how to	distinguish correct	argumentation	correct
		distinguish correct	argumentation	from incorrect;	argumentation
		_	from incorrect;	4) classifies	from incorrect;
		argumentation from incorrect;	· · · · · · · · · · · · · · · · · · ·	· ·	· ·
		,	4) classifies	computer	4) classifies
		4) classifies	computer	networks and	computer
		computer	networks and	explains the	networks and
		networks and	explains the	advantages of	explains the
		explains the	advantages of	wireless	advantages of
		advantages of	wireless	communication	wireless
		wireless	communication	5) selects various	communication
		communication	5) selects various	data formats for	5) selects various
		5) selects various	data formats for	solving problems	data formats for
		data formats for	solving problems	in spreadsheets	solving problems
		solving problems	in spreadsheets	•	in spreadsheets
		in spreadsheet	1		1
LO3 U	Uses digital	1) Partially uses	1) Uses Internet	1) Uses Internet	1) Uses Internet
	technologies in	Internet resources,	resources, cloud	resources, cloud	resources, cloud
	diagnostics,	cloud and mobile	and mobile	and mobile	and mobile
	treatment and	services for the	services for the	services for the	services for the
	organization of	search, storage,	search, storage,	search, storage,	search, storage,
	medical services,	processing,	processing,	processing,	processing,
	uses software and	protection and	protection and	protection and	protection and
		dissemination of	dissemination of	dissemination of	-
	hardware of				dissemination of
	computer systems	information	information	information	information
	and networks for	2) cannot use the	2) Partially uses	2) Uses the	2) Uses the
	data collection,	database in	the database in	database in	database in
	transmission,	practice;	practice;	practice;	practice;
	processing and	3)Cannot test the	3) Cannot test the	3) Can test the	3) Can test the
	storage; Use	used hardware and	used hardware and	used hardware and	used hardware and
	information	software;	software;	software;	software;
	internet resources,	4) Finds difficult	4) Finds difficult	4) Uses text	4) Uses text
	cloud and mobile	to use text editors	to use text editors	editors to create	editors to create
	services for	to create and	to create and	and design text	and design text
s	search, storage,	design text	design text	documents	documents
	processing and	documents	documents	(formatting,	(formatting,
	extension of	(formatting,	(formatting,	saving, copying	saving, copying
	information;	saving, copying	saving, copying	fragments, etc.);	fragments, etc.);
1					_
		fragments etc.):	fragments etc.):	l 5) Partially	(5) Applies the
		fragments, etc.); 5) does not know	fragments, etc.); 5) hesitantly	5) Partially applies the	5) Applies the acquired skills: to

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MEDISINA	(SKMA)	MEDICAL
AKADEMIASY	ريتان	ACADEMY
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LO 4	Apply of information	how to apply the acquired skills: to plot the functions specified in the table and create diagrams in the spreadsheet. 1) does not use modern software,	applies the acquired skills: to plot the functions specified in the table and create diagrams in the spreadsheet; 1) Partly uses modern software,	acquired skills: to plot the functions specified in the table and create diagrams in the spreadsheet; 1) Uses modern software, does not	plot the functions specified in the table and create diagrams in the spreadsheet; 1) Uses modern software, does not
	technologies in health care, effectively use information and in-formation technologies in the field of medicine	does not analyze medical data using various special software and does not interpret the results; 2) does not use the information resources of the society and electronic means of communication in educational and practical activities; 3) does not use presentation graphics tools when preparing and conducting oral materials 4) does not create cloud data stores 5) does not know how to use software tools designed to work with this type of information and is guided by their	does not analyze medical data using various special software and does not interpret the results; 2) Partly uses the information resources of the society and electronic means of communication in educational and practical activities; 3) Partly uses presentation graphics tools when preparing and conducting oral materials 4) hardly creates cloud data stores 5) does not know how to use software tools designed to work with this type of information and is guided by their	analyze medical data using various special software and does not interpret the results; 2) Uses the information resources of the society and electronic means of communication in educational and practical activities; 3) uses presentation graphics tools when preparing and conducting oral materials 4) creates cloud data stores 5) Partly uses software tools designed to work with this type of information and is guided by their compliance with	analyze medical data using various special software and does not interpret the results; 2) Uses the information resources of the society and electronic means of communication in educational and practical activities; 3) uses presentation graphics tools when preparing and conducting oral materials 4) creates cloud data stores 5) Uses software tools designed to work with this type of information and is guided by their compliance with
		compliance with the task 1) It is difficult to	compliance with the task 5) knows how to	the task 9) knows how to	the task 13) knows how to
LO 5	Carry out project activities in the specialty with the use of modern information and communication technologies.	create, edit, design, design, transfer information objects using modern software tools and online services;	create, edit, design, draw, transmit simple information volumes using some software tools; 6) does not use	create, edit, design, draw, transfer information objects of a certain type using modern software tools and online	create, edit, design, draw, transmit information objects of various types and difficulties using modern software

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2) does not use	LAN and WAN	services;	tools and online
LAN and WAN	capabilities to	10) leverages local	services;
capabilities to	collaborate on	and wide area	14) Leverages
collaborate on	information	network	local and wide
information	7) searches for	capabilities to	area network
3) searches for	selective	collaborate on	capabilities to
selective	information on	information	collaborate on
information on the	the Internet;	11) searches for	information
Internet;	8) has difficulty	information of	15) searches for
4) has difficulty	installing	various types on	information of
installing software	software on PCs	the Internet;	various types on
on PCs and	and mobile	12) has difficulty	the Internet;
mobile	applications on a	installing software	16) installs
applications on a	smartphone	on PCs and	software on PCs
smartphone		mobile	and mobile
		applications on a	applications on a
		smartphone	smartphone

	2. Criteria for assessing of teching methods and technologies				
Checkli	Checklist for assessing of practical lessons				
Contro 1 form	Assessment	Criterion for assessment of students' knowledge			
	Exellent A (95-100%) A- (90-94%)	 does not allow any errors, inaccuracies; demonstrates knowledge of theoretical material on the topic under consideration; orientates itself in concepts and directions in the field of ICT and gives them a critical assessment; determines the relationship of the topic under consideration with the future profession, gives specific practical examples; refers to additional literary sources when answering, has an additional summary. 			
Oral response	Good B+ (85-89%) B (80-84%) B- (75-79%) C+ (70-74%)	 does not allow any errors, inaccuracies; demonstrates knowledge of theoretical material on the topic under consideration; the answer was limited to the use of educational literature specified by the teacher; orientates itself in the main concepts and directions in the field of ICT. 			
	Satisfactory C (65-69%) C- (60-64%) D+ (50-54%)	 makes inaccuracies and non-fundamental errors; demonstrates partial knowledge of theoretical material on the topic under consideration; the answer was limited to the use of educational literature specified by the teacher; experienced difficulties in systematizing educational material. 			
	Unsatisfactory FX (25-49%) F (0-24%)	 makes fundamental errors; does not know the theoretical material on the topic under consideration; did not systematize the educational material on the topic under consideration. 			
Work on a computer	Excellent A (95-100%) A- (90-94%)	 complies with safety rules when working with equipment; demonstrates extensive knowledge when working with standard Windows OS programs and MS Office applications; knows the purpose of the main and perefiry devices of the PC; complies with the principles of information protection; demonstrates the norms of information ethics; knows how to create, edit, design, store, transfer information objects of various types and difficulties using modern software tools and online services; leverages local and wide area network capabilities to collaborate on information; 			

- searches for information of various nature on the Internet;

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		- installs software on PCs and mobile applications on a smart	phone		
	- complies with safety rules when working with equipment;				
	- demonstrates basic knowledge when working with standard Windows OS programs				
	and MS Office applications;				
	Good - knows the purpose of the main and perefiry devices of the PC;				
	B+ (85-89%) - knows the purpose of the main and perenty devices of the FC, - complies with some principles of information protection;				
	B (80-84%) - demonstrates the norms of information ethics				
	B- (75-79%)	- knows how to create, edit, design, store, transfer informatio	n objects of a	certain type	
	C+ (70-74%)	using modern software tools and online services;	00,000 01 0	, corouni type	
	(/ 0 / 1/0)	- leverages local and wide area network capabilities to collab	orate on infor	mation:	
		- searches for information of various nature on the Internet;	01440	,	
		- has difficulty installing software on PCs and mobile applica	itions on a sm	artphone.	
		- knows the safety rules when working with equipment;		an opinone.	
		- demonstrates selective knowledge when working with	standard W	indows OS	
		programs and MS Office applications;	Stariation V	maows ob	
		- knows the purpose of the main and partially peripheral devi	ces of the PC		
	Satisfactory	- does not know how to protect information;		,	
	C (65-69%)	- does not comply with the norms of information ethics;			
	C- (60-64%)	- knows how to create, edit, design, store, transfer simple	information of	biects using	
	D+ (50-54%)	some software tools;		ojects using	
	2 (00 0 170)	- does not use the capabilities of the local and wide area n	etworks to co	ollaborate on	
		information;			
		- searches for selective information on the Internet;			
		- has difficulty installing software on PCs and mobile applica	tions on a sm	artphone.	
		- knows the safety rules when working with equipment;		urtpriorie.	
		- it is difficult when working with standard Windows OS	programs and	1 MS Office	
		programs une	i wis office		
	application programs; - knows the purpose of the main and partially peripheral devices of the PC;				
		- does not know how to protect information;	ces of the f	,	
	Unsatisfactory - does not know the norms of information ethics				
	FX (25-49%)	- it is difficult to create, edit, design, store, transfer information	tion objects u	sing modern	
	F (0-24%)	software tools and online services;	aron dejects t	.511.6 1110	
		- does not use the capabilities of the local and wide area n	etworks to co	ollaborate on	
		information;			
		- searches for selective information on the Internet;			
	- has difficulty installing software on PCs and mobile applications on a smartphone				
		Checklist for assessing of SIW			
SIW 1		<u> </u>			
	Task 1. Creating a	ı flowchart	Max 30	Min 15	
	- the flowchart, the	e algorithm are logically correct;			
	- correctly designe	ed input and output data;			
1.	- there are no error	rs in the use of structural elements of the scheme and	20-30	Exellent	
	algorithm;				
	- the student reads	the flowchart and algorithm without errors.			
2		and algorithm are logically correct, but 1-2 errors or 2-3	10.20	C = - 1	
2.	shortcomings may	be made;	10-20	Good	
		ade in the algorithm, structural elements of the flowchart are			
	incorrectly used;		0.10	Satisfactor	
3.		ng the algorithm, the flowchart, the student experienced	0-10	у	
	_	were corrected with the help of the teacher;			
	Task 2. Creating a	•	Max 50	Min 25	

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- DB corresponds to a certain subject area; - The database contains several interrelated tables; - DB tables consist of fields containing different types of data, including graphic ones; - when filling tables, various MS Access tools ("Input Mask," "Substitution Wizard," etc.) were used, data was imported from MS Excel; - DB contains forms; - DB contains simple and cross queries; - The database contains reports DB tables consist of fields containing different types of data, including graphic ones; - DB tables consist of fields containing different types of data, including graphic ones; - DB tables consist of fields containing different types of data, including graphic ones; - DB contains forms; - The database contains several interrelated tables; - DB tables consist of fields containing different types of data, including graphic ones; - DB corresponds to a certain subject area; - The database contains several tables; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - The database contains only one table; - DB tables consist of less than 10 rows. - Task 3. Crosswords - Task 3. Crosswords - Crosswords with davice for verification; - the erric is a sheet with davice for verification; - the work is originally designed. - Crosswords contains grammatical and punctional errors; - Crosswords contains less than 20 questions; - there is a sheet with tips for verification; - the work is originally designed. - Crosswords contains at least 20 questions; - there is a sheet with tips for verification; - the work is originally designed. - Crosswords contains at least 20 terms and definitions; - definitions contain arccurates, errors, are raw material; - Description of the databas	1.	 The database contains several interrelated tables; DB tables consist of fields containing different types of data, including graphic ones; DB tables consist of at least 10 lines; when filling tables, various MS Access tools ("Input Mask," "Substitution Wizard," etc.) were used, data was imported from MS Excel; DB contains forms; 	40-50	Exellent
- DB tables consist of fields containing different types of data, including graphic ones; - When filling tables, various MS Access tools ("Input Mask," "Substitution Wizard," etc.) were used, data was imported from MS Excel; - DB contains forms: - DB contains simple and cross queries; - The database contains reports DB tables consist of fields containing different types of data, including graphic ones; - DB tables consist of fields containing different types of data, including graphic ones; - DB tables consist of fleds containing different types of data, including graphic ones; - DB contains forms; - The database contains simple queries; - The database contains simple queries; - The database contains reports DB corresponds to a certain subject area; - The database contains reports DB tables consist of fleds containing different types of data; - DB tables consist of fleds containing different types of data; - DB tables consist of fleds containing different types of data; - DB tables consist of fleds containing different types of data; - The database contains only one table; - DB tables consist of fleds containing different types of data; - The database contains only one table; - table fields contain different types of data; - The table contains less than 10 rows. - DB tables consist of less than 10 rows. - Task 3. Crosswords - Crosswords is based on a given topic; - the terms used are significant and reveal the topic; - Crosswords does not contain grammatical and punctuation errors; - Crosswords contains at least 20 questions; - there is a sheet with advice for verification; - the work is originally designed. - Crosswords contains grammatical and punctional errors; - Crosswords contains for verification; - the work is originally designed. - Crosswords contains at least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed. - Glossary contains at least 20 terms and definitions; - definitions are exact, concise, do not contain s	1.	 - DB tables consist of fields containing different types of data, including graphic ones; - DB tables consist of at least 10 lines; - when filling tables, various MS Access tools ("Input Mask," "Substitution Wizard," etc.) were used, data was imported from MS Excel; - DB contains forms; 	40-50	Exellent
graphic ones; - DB tables consist of at least 10 lines; - when filling tables, various MS Access tools ("Input Mask," "Substitution Wizard," etc.) were used, data was imported from MS Excel; - DB contains forms; - DB contains forms; - DB cortains simple and cross queries; - The database contains reports. - DB corresponds to a certain subject area; - The database contains several interrelated tables; - DB tables consist of fields containing different types of data, including graphic ones; - DB contains forms; - The database contains simple queries; - DB contains forms; - The database contains simple queries; - The database contains simple queries; - The database contains several tables; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of fless than 10 rows. - DB does not correspond to a certain subject area; - The database contains soly one table; - table fields contain different types of data; - The table contains less than 10 rows. - Task 3. Crosswords - Crosswords is based on a given topic; - the terms used are significant and reveal the topic; - Crosswords does not contain grammatical and punctuation errors; - Crosswords does not contain grammatical and punctuation errors; - Crosswords contains at least 20 questions; - there is a sheet with advice for verification; - the work is originally designed. - Crosswords contains grammatical and punctional errors; - Crosswords contains grammatical and punctional errors; - Crosswords contains a least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - there is a sheet with tips for verification. - Glossary is composed on a given topic; - Glossary is composed on a given topic; - Glossary is composed on a given topic; - Glossary contains a least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed.	1.	graphic ones; - DB tables consist of at least 10 lines; - when filling tables, various MS Access tools ("Input Mask," "Substitution Wizard," etc.) were used, data was imported from MS Excel; - DB contains forms;	40-50	Exellent
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1 when filling tables, various MS Access tools ("Input Mask," "Substitution Wizard," etc. were used, data was imported from MS Excel; - DB contains forms; - DB contains simple and cross queries; - The database contains several interrelated tables; - DB tables consist of fields containing different types of data, including graphic ones; - DB tables consist of at least 10 lines; - DB tables consist of at least 10 lines; - DB contains forms; - The database contains simple queries; - The database contains reports DB corresponds to a certain subject area; - The database contains reports DB corresponds to a certain subject area; - The database contains several tables; - DB tables consist of leftles containing different types of data; - DB tables consist of lest han 10 rows. - DB does not correspond to a certain subject area; - The database contains only one table; - table fields contain different types of data; - The table contain and a certain subject area; - table fields contain different types of data; - The table contain different types of data; - The database contain different types of data; - The database contains less than 10 rows. - Crosswords of contain different types of data; - The database contains less than 10 rows. - Crosswords does not correspond to a certain subject area; - Crosswords does not contain grammatical and punctuation errors; - Crosswords does not contain grammatical and punctuation errors; - Crosswords contains at least 20 questions; - there is a sheet with advice for verification. - Crosswords contains less than 20 questions; - there is a sheet with tips for verification. - Crosswords contains less than 20 terms and definitions; - definitions are exact, concise, do	1.	 - when filling tables, various MS Access tools ("Input Mask," "Substitution Wizard," etc.) were used, data was imported from MS Excel; - DB contains forms; 	40-50	Exellent
Wizard," etc.) were used, data was imported from MS Excel; - DB contains forms; - DB contains simple and cross queries; - The database contains reports. - DB corresponds to a certain subject area; - The database contains several interrelated tables; - DB tables consist of fields containing different types of data, including graphic ones; - DB tables consist of at least 10 lines; - DB contains forms; - The database contains simple queries; - The database contains simple queries; - The database contains semple queries; - The database contains several tables; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of less than 10 rows. - DB database contains only one table; - table fields contain different types of data; - The database contains less than 10 rows. - Task 3. Crosswords - Crosswords is based on a given topic; - the terms used are significant and reveal the topic; - Crosswords is based on a given topic; - the terms used are significant and reveal the topic; - Crosswords contains at least 20 questions; - there is a sheet with advice for verification; - the work is originally designed. - Crosswords contains grammatical and punctional errors; - Crosswords contains grammatical and punctional errors; - Crosswords contains grammatical and punctional errors; - Crosswords contains sets than 20 questions; - there is a sheet with tips for verification; - the work is originally designed. - Crosswords contains less than 20 questions; - the work is originally designed. - Glossary is composed on a given topic;		Wizard," etc.) were used, data was imported from MS Excel; - DB contains forms;		
DB contains forms; DB contains simple and cross queries; The database contains reports. DB corresponds to a certain subject area; DB tables consist of fields containing different types of data, including graphic ones; DB tables consist of at least 10 lines; DB tables consist of at least 10 lines; DB contains forms; The database contains simple queries; The database contains simple queries; The database contains several tables; DB corresponds to a certain subject area; The database contains several tables; DB tables consist of fields containing different types of data; DB tables consist of fless than 10 rows. DB tables consist of less than 10 rows. DB does not correspond to a certain subject area; The database contains only one table; table fields contain different types of data; The table contains less than 10 rows. Max 10 Unsatisfact ory Task 3. Crosswords As Crosswords Crosswords on a given topic; the terms used are significant and reveal the topic; Crosswords does not contain grammatical and punctuation errors; there is a sheet with advice for verification; the work is originally designed. Crosswords contains grammatical and punctional errors; there is a sheet with the properties of the p		- DB contains forms;		
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- The database contains reports. - DB corresponds to a certain subject area; - The database contains several interrelated tables; - DB tables consist of fields containing different types of data, including graphic ones; - DB tables consist of at least 10 lines; - DB tables consist of at least 10 lines; - DB corresponds to a certain subject area; - The database contains simple queries; - The database contains reports. - DB corresponds to a certain subject area; - The database contains several tables; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of less than 10 rows. - DB does not correspond to a certain subject area; - The database contains only one table; - table fields contain different types of data; - The table contains less than 10 rows. - Task 3. Crosswords - Crosswords - Crosswords is based on a given topic; - the terms used are significant and reveal the topic; - Crosswords does not contain grammatical and punctuation errors; - Crosswords contains at least 20 questions; - there is a sheet with advice for verification; - the work is originally designed. - Crosswords contains grammatical and punctional errors; - Crosswords contains grammatical and punctional errors; - Crosswords contains grammatical and punctional errors; - Crosswords contains than 20 questions; - there is a sheet with tips for verification. - Task 4. Glossary - Glossary is composed on a given topic; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed. - Glossary is composed on a given topic;				
- DB corresponds to a certain subject area; - The database contains several interrelated tables; - DB tables consist of fields containing different types of data, including graphic ones; - DB tables consist of at least 10 lines; - DB contains forms; - The database contains simple queries; - The database contains reports. - DB corresponds to a certain subject area; - The database contains several tables; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of fields containing different types of data; - DB tables consist of less than 10 rows. - DB does not correspond to a certain subject area; - The database contains only one table; - table fields contain different types of data; - The table contains less than 10 rows. - Task 3. Crosswords - Crosswords is based on a given topic; - the terms used are significant and reveal the topic; - Crosswords does not contain grammatical and punctuation errors; - Crosswords contains at least 20 questions; - there is a sheet with advice for verification; - the work is originally designed. - Crosswords contains less than 20 questions; - there is a sheet with tips for verification. - Crosswords contains less than 20 questions; - there is a sheet with tips for verification. - Crosswords contains less than 20 questions; - there is a sheet with dips for verification. - Crosswords contains less than 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed. - Clossary contains less than 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed.		•		
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- Glossary is composed on a given topic; - Glossary contains less than 20 terms and definitions; O-5 Good				
- Glossary contains less than 20 terms and definitions;		<u> </u>		†
and definitions contain inaccoracies, errors, are raw material,	2		0-5	Good
- the work is casually executed.				
SIW 2	SIW 2			
		Task 1. Creating a Presentation	Max 50	Min 25
Thurst I. Croming at recommend	1	- presentation corresponds to the topic;		Evallest
- presentation corresponds to the tonic:	1.	- a single design style is observed, the style does not distract from the content of	40-50	Exellent

ONTÚSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ ОНТОСТІК КАЗАКНЯТАН МЕДІСАL АСАДЕМУ АО «Южно-Казахстанская медицина	ская академия»
Department of "Medical Biophysics and Information Technology"	044-35/09 ()
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	the presentation;		
	- different types of slides are used;		
	- slides are not loaded with information, easy to read, do not contain syntactic		
	and punctuation errors;		
	- graphic and animation elements are used;		
	- design principles are observed (laconicity, structure - presentation of the		
	material in a clear, easily memorable form, unification - design in a single		
	graphic and color solution within the entire presentation).		
	- presentation corresponds to the topic;		
	- a single design style is observed, the style does not distract from the content of		
	the presentation;		
	- the same type of slides are used;		
2.	- slides are loaded with information, difficult to read, do not contain syntactic	30-40	Good
	and punctuation errors;		
	- graphic and animation elements are used;		
	- design principles are partially observed.		
	- presentation corresponds to the topic;		
	- the uniform design style is not observed, the style distracts from the content of		
	the presentation;		
	- the same type of slides are used;		Satisfactor
3.	- slides are loaded with information, difficult to read, contain syntactic and	10-30	y
	punctuation errors;		J
	- graphic and animation elements are used;		
	- design principles are not observed.		
	- presentation does not correspond to the topic;		
	- the uniform design style is not observed, the style distracts from the content of		
	the presentation;		
	- the same type of slides are used;		Unsatisfact
4.	- slides are loaded with information, difficult to read, contain syntactic and	0-10	ory
	punctuation errors;		Ory
	- graphic and animation elements are not used;		
	- design principles are not observed.		
	Task 2. Drawing up test questions	Max 30	Min 15
	- test tasks correspond to the topic;	1.141 50	1,111 10
	- contain at least 20 questions;		
	- the questions are formulated clearly, correctly, specifically;		
	- responses are of the same type and adequate;		
	- the correct answers are presented separately.		
1.	- test tasks correspond to the topic;	20-30	Exellent
	- contain 15-20 questions;		
	- the questions are formulated clearly, correctly, specifically;		
	- responses are not of the same type and adequate;		
	- there are correct answers.		
	- test tasks correspond to the topic;		
	- contain 10-15 questions;		
2.	- questions are formulated vaguely, incorrectly, not specifically;	10-20	Good
۷.	- responses are not of the same type and adequate;	10-20	Joou
	- there are correct answers.		
	- test tasks do not correspond to the topic;		
3.	- contain less than 10 questions;	0-10	Satisfactor
٥.	- questions are formulated vaguely, incorrectly, not specifically;	0-10	у
	- questions are formulated vaguety, incorrectly, not specifically,		

ONTÚSTIK-OAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	ская академия»
Department of "Medical Biophysics and Information Technology"	044-35/09 ()
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	- responses are not of the same type and adequate;		
	- correct answers are not specified.		
	Task 3. Word-cloud	Max 10	Min 5
1	- word cloud is composed according to the specified topic;		
	- more than 50 terms are used;	5-10	Exellent
	- terms do not contain grammatical errors;		
	- the work is originally designed.		
2	- word cloud is composed according to the specified topic;		
	- less than 50 terms are used;	0-5	Good
	- terms contain grammatical errors;		
	- the work is originally designed.	M 10	M: 5
	Task 4. Glossary	Max 10	Min 5
	- Glossary is composed on a given topic;		
1	- Glossary contains at least 20 terms and definitions;	5-10	Exellent
	- definitions are exact, concise, do not contain syntactic errors;		
	- the work is originally designed.		
	- Glossary is composed on a given topic;		
2	- Glossary contains less than 20 terms and definitions;	0-5	Good
	- the definitions contain inaccuracies, errors, are raw material;		
CINI	- the work is casually executed.		
SIW 3		M. 20	M: 15
	Task 1. Knowledge Base Logic scheme	Max 30	Min 15
	- the scheme is simple and concise, placed on one page;		
	- basic and sufficient concepts on the topic are highlighted as elements of the		
	scheme;		
1	- circuit elements are arranged so that their hierarchy is clear (for example,	20-30	Exellent
1.	general and specific - in the center, on the periphery - auxiliary);	20-30	Exellent
	- logical connections are established between the circuit elements (inside the		
	circuit and external, i.e., relationship with adjacent circuits); - visual diagram (convenient for perception): symbols, graphic material, color		
	shades, tables, illustrated material are used. - the diagram is placed on one page;		
	- the diagram is placed on one page, - basic and sufficient concepts on the topic are highlighted as elements of the		
	scheme;		
2.	- hierarchy of circuit elements is not traced, material is presented chaotically;	10-20	Good
۷.	- logical connections are established between the circuit elements (inside the	10-20	Good
	circuit and external, i.e., relationship with adjacent circuits);		
	- the diagram is not visual.		
	- the diagram is placed on more than one page;		
	- elements of the scheme are not basic and sufficient concepts on the topic;		
3.	- hierarchy of circuit elements is not traced, material is presented chaotically;	0-10	Satisfactor
J.	- no logical connections are established between the circuit elements;	0 10	у
	- the diagram is not visual.		
	Task 2. Creating website	Max 50	Min 25
	- the website corresponds to the selected topic, the main ideas of the project are	1.14/1 50	1,1111 25
	revealed and substantiated;		
1.	- the organizational structure is clear;		
	- the organizational structure is clear, - the site has its own style - typography (artistic design of text using fonts,	40-50	Exellent
1.	symbols and signs) and the general design of Good are combined;	10 50	Lacitoni
	- the color palette is correctly used;		
	- different types of blocks (tabs, shapes,contacts, card, counters,etc. are used at		
	anticione types of crocks (mos, shapes, contacts, card, counters, etc. are used at		

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	least 3		
	- included are hyperlinks to other sources of information on subjects not less		
	than 5;		
	- the site contains several pages (2 or more);		
	- the site contains several pages (2 of more), - there are no grammatical and syntactic errors in the content;		
	•		
	- graphic objects are included.		
	- the website corresponds to the selected topic, the main ideas of the project are		
	not fully disclosed;		
	- the organizational structure is clear;		
	- typography and general design are combined;		
_	- background and color correspond to each other;		
2.	- different types of blocks (tabs, shapes, contacts, card, counters, etc.) are used	30-40	Good
	at least 2;		
	- hyperlinks to other sources of information on subjects not less than 3 are		
	included;		
	- the site consists of 1 page;		
	- there are grammatical and syntactic errors in the content.		
	- the website corresponds to the selected topic;		
	- navigation elements are illogical;		
	- typography and general design are not combined;		
	- background and color do not correspond to each other;		
2	- blocks of different types (tabs, shapes, contacts, card, counters, etc.) less than	10-30	satisfactor
3.	2 are used;	10-30	y
	- hyperlinks to other sources of information on topics less than 3 are included;		
	- the site consists of 1 page;		
	- content is difficult to perceive;		
	- there are grammatical and syntactic errors in the content.		
	- the website does not match the selected topic;		
	- navigation elements are illogical;		
	- typography and general design are not combined;		
	- background and color do not correspond to each other;		
,	- blocks of different types (tabs, shapes, contacts, card, counters, etc.) less than	0.10	Unsatisfact
4	2 are used;	0-10	ory
	- there are no hyperlinks to other sources of information on the topic;		J
	- the site consists of 1 page;		
	- content is difficult to perceive;		
	- there are grammatical and syntactic errors in the content.		
	Task 3. Word cloud	Max 10	Min 5
1	- word cloud is composed according to the specified topic;		
	- more than 50 terms are used;	F 10	F 11
	- terms do not contain grammatical errors;	5-10	Exellent
	- the work is originally designed.		
2	- word cloud is composed according to the specified topic;		
	- less than 50 terms are used;	0.7	
	- terms contain grammatical errors;	0-5	Good
	- the work is originally designed.		
	Task 4. Glossary	Max 10	Min 5
	- Glossary is composed on a given topic;		
	- Glossary contains at least 20 terms and definitions;		
1	- definitions are exact, concise, do not contain syntactic errors;	5-10	Exellent
	- the work is originally designed.		
	1		ı

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	- Glossary is composed on a given topic;		
2	- Glossary contains less than 20 terms and definitions;	0.5	
2	- the definitions contain inaccuracies, errors, are raw material;	0-5	Good
	- the work is casually executed.		
SIW 4	•		
	Task 1. Creating Videos	Max 30	Min 15
	- the video is informative, informative, the topic is disclosed;		
	- the director's decision is original;		
	- there are visual effects of the video sequence: credits, text screensavers,		
	graphic screensavers, logo;		Exellent
1.	- participation in the author's video;	20-30	
	- work with sound: music or readable text corresponds to the content of the video sequence, high-quality sound, volume is adjusted, sound and image are		
	synchronous;		
	- working with image effects: brightness, contactness, cropping;		
	- video duration is not more than 3 minutes.		
	- the video is informative, the topic is disclosed;		
	- there are visual effects of the video sequence: credits, text screensavers,		
	graphic screensavers, logo;		
	- work with sound: music or readable text corresponds to the content of the	10.20	Good
2.	video sequence, high-quality sound, volume is adjusted, sound and image are	10-20	
	synchronous;		
	- working with image effects: brightness, contactness, cropping;		
	- video duration 2-3 minutes.		
	- the video is uninformative, the topic is not disclosed;		
	- visual effects of the video sequence are small or absent;		
	- music or readable text does not correspond to the content of the video		Satisfactor
3.	sequence, the sound is poor;	0-10	y
	- the images are not bright, the contortion is not observed, the images are		
	distorted; - video duration is less than 2 minutes.		
		Max 50	Min 25
	Task 2. Creating emblems, logos - the image is unique (original, unique);	Max 30	WIII 23
	- the image is associative - each of its elements should be associated with the		
	selected field of activity, any line makes sense;		
	- the image is concise - the simpler the image, the better perceived it is;		
1.	- the image is universal - it is possible to place on the site, on clothes, etc.	40-50	Exellent
	- the color palette and fonts are correctly used;		
	- demonstration of the emblem (logo) is accompanied by explanations of the		
	author (the idea is explained, which symbolizes the elements of the emblem)		
	- the image is unique (original, unique);		
	- the image is not associative enough;		
_	- the image is overloaded with parts;		
2.	- image is universal;	30-40	Good
	- the color palette and fonts are correctly used;		
	- demonstration of the emblem (logo) is accompanied by explanations of the		
	author.		
	- the image is not associative enough.		antiafantar
3.	the image is not associative enough;non-universal image;	10-30	satisfactor
	- color palette is not used correctly;		У
	color parene is not used correctly,		

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	- responses are not of the same type and adequate; - there are correct answers.		
2.	 test tasks correspond to the topic; contain 10-15 questions; questions are formulated vaguely, incorrectly, not specifically; responses are not of the same type and adequate; there are correct answers. 	10-20	Good
3.	 test tasks do not correspond to the topic; contain less than 10 questions; questions are formulated vaguely, incorrectly, not specifically; responses are not of the same type and adequate; correct answers are not specified. 	0-10	Satisfactor y

Check List for midterm control

Computer testing	Max 100	Min 50
Testing is carried out in electronic form.	90-100	Exellent
The test contains 25 questions.	70-89	Good
A 100-point scale is used for evaluation.	50-69	Satisfactory
Test time is determined by the instructor (not more than 50 min)	< 50	HeSatisfactory

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

11. Learning resources

databases, animation simulators, professional blogs, websites, other electronic reference materials (for example: video, audio, digests)

Information system «Medicine» https://online.zakon.kz/Medicine/

Electronic textbooks

- 1. Сапрыгина, М. Б. Information and communication technology [Электронный ресурс]: учебное пособие / М.Б. Сапрыгина, К. Кудабаев. Электрон. текстовые дан. (20.2Мб). Алматы: [s.n.], 2017
- 2. А.Е.Жатканбаева, Информационное право (общая часть) [Текст] : учеб. пособие; КазНУ им. аль-Фараби. Алматы: Қазақ ун-ті, 2015. 147с http://elib.kaznu.kz
- 3. Информатика и информационные технологии в профессиональной деятельности [Текст]: учебник/ А.А. Бабкин, С.В. Видов, С.А. Грязнов и др.; под ред.: В.П. Корячко, М.И. Купцов; Федеральная служба исполнения наказаний, Академия права и управления.- Рязань: Академия ФСИН России, 2016.- 354 с. http://elib.kaznu.kz
- 4. Қ.Ж. Құдабаев. «Информатика» Оқу құралы. Алматы, «Эве-ро», 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.—242p https://elib.kz/ru/search/read_book/363/
- 6. К.Ж.Кудабаев, З.С.Халметов, А.А.Мауленова, З.М. Абдримова, А.С.Байдилдаева. Учебно-

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методическое пособие «Сборник тестовых заданий по информатике». Алматы, «Эверо», 2020г., 150 с. https://elib.kz/ru/search/read_book/2948/

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/

Laboratory physical resources

Computers and other electronical devices

Special programs

- 1 MS office (Word. Excel. Access. Power point)
- 2 Adobe Photoshop, Bandicam, Movie maker, video pad etc.
- 3 Moodle, Courser a, STATISTICA

Main Literature

- 1. Нурпеисова Т. Б. Информационно-коммуникационные технологии: учеб. пособие.-2017
- 2. Хакимова Т. Практикум по курсу "Основы информатики": уч. пособие. Алматы: "NURPRESS".-2013
- 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.Methods of teaching computer science [Tekct]: Textbook / E. Bidaibekov [and etc.].- Almaty:[s.n.], 2016.
- 6.Nurpeisova T.B. Information and Communication Technologies: Text-book / T.B. Nurpeisova, I.N. Kaidash.-Almaty: Bastau, 2017.- 480 p.
- 7.Manapov N.T. Computer chemistry [Tekct]: textbook/ N.T. Manapov.- Almaty: Association of higher educational institutions of Kazakhstan, 2016. 312 p

Additional Literature

Electronic database

1.Қойбағарова Т.Қ. Информатика: оқу-әдістемелік құралы - Түзет., толықт. 2-бас. - Алматы: Эверо.-2014 2.Информатикадан тест тапсырмаларының жинағы: оқу-әдістемелік құрал / Қ. Ж. Құдабаев [т.б.]. - Алматы: Эверо.-2014

No	Title	Link
1	SKMA Repository	http://lib.ukma.kz/repository/
2	Republican Interuniversity Electronic Library	http://rmebrk.kz/
3	Student Advisor	http://www.studmedlib.ru/
4	Open University of Kazakhstan	https://openu.kz/kz
5	Law (access in the reference and information sector)	https://zan.kz/ru
7	Scientific Electronic Library	https://elibrary.ru/
8	Open Library	https:// kitap.kz/
9	Thomson Reuters	www.webofknowledge.com
10	ScienceDirect	http://www.sciencedirect.com

https://www.scopus.com/

https://aknurpress.kz/login

12. Course policy

Scopus

11

12

Requirements for studying this course:

- 1. Do not miss classes without reason;
- 2. Do not be late for classes;
- 3. Come to classes in uniform;
- 4. To be active during the practical classes;

Digital library «Aknurpress»

- 5. To prepare for lessons;
- 6. Take the students independent work and prepare it timely;
- 7. Not to do other things during lessons;
- 8. To be tolerant, polite and friendly to students and teachers;

- 9. Be careful to the department equipment and furniture.
- 10. The midterm control of students' knowledge is carried out twice during the semester on the 7th and 14th weeks of theoretical training with the setting of the results of midterm controls in the educational journal of progress and the electronic journal, taking into account penalty points for missing lectures (missed lectures in the form of penalty points are subtracted from the assessments of the midterm control). The penalty point for missing 1 lecture is 1.0 point. A student who does not show up for midterm control without an important reason is not allowed to take the course exam. The results of midterm control are sent to the dean's office in the form of a report at the end of the control week.
- 11. SIW mark is given at the SIWT lesson, according to the schedule, in the educational register and electronic register also, taking into account the penalty points for missing SIWT lessons. The penalty point for missing 1 SIWT lesson is 2.0 points.
- 12. Digital educational resources and digital content are placed by the teacher in the "Tasks" module for the attached academic group (stream). All types of training videos are linked to the department's cloud storage.
- 13. Module "Tasks" AIS Platonus is the main platform for distance learning and placement of all training and teaching materials.

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

https://ukma.kz/

Академическая политика АО ЮКМА. П. 4 Кодекс чести студента http://surl.li/eroik

The policy of grading the discipline

Discipline Grading Policy

Student's final mark (FM) is given at the end of the course, and calculate as a sum of the admission rating mark (ARM) and the final control mark (FCM) and is given according to the point-rating letter system.

FM=ARM+FCM

Admission rating mark (ARM) is equal to 60 points or 60% and includes: the current control mark (CCM) and midterm control mark (MCM).

The current control mark (CCM) is the average score for practical lessons and SIW.

The midterm control mark (MCM) is the average score of the two midterm controls.

The admission rating mark (60 points) is calculated via the formula:

Final control (FC) is carried out in the form of testing and the student can get 40 points or 40% of the total mark.

When testing, the student is asked 50 questions.

Calculation of final control is carried out as follows: If the student correctly answered 45 questions out of 50, it will be 90%.

$$90 \times 0.4 = 36 \text{ points}.$$

The final mark is calculated if the student has positive marks both in the admission rating (AR) = 30 points or 30% or more, and in the final control (FC) = 20 points or 20% or more.

The final grade (100 points) = MCM average x 0.2+CCM average x 0.4+FC x 0.4

Final control (FC) is carried out in the form of testing and the student can get 40 points or 40% of the total mark.

When testing, the student is asked 50 questions.

Calculation of final control is carried out as follows: If the student correctly answered 45 questions out of 50, it will be 90%.

$$90 \times 0.4 = 36 \text{ points}.$$

The final mark is calculated if the student has positive marks both in the admission rating (AR) = 30 points or 30% or more, and in the final control (FC) = 20 points or 20% or more.

The final grade (100 points) = MCM average x 0.2+CCM average x 0.4+FC x 0.4

A student who has received an unsatisfactory mark for one of the types of controls (MK1, MK2, CC average) is not allowed to the exam.

Penalty points are subtracted from the average score of the current control.

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14. Approval and revi			
Approval date	Protocol No.	Head of the Department	Signature
26 » 05 2023 y.	№ <u>12</u>	M.B.Ivanova	
Revision date	Protocol No.	Chairman of the EPC	Signature
«9 »06 2023 y.	№ <u>10</u>	G.ZH. Sarsenbaeva	Jepec of
Revision date	Protocol No.	Chairman of the EPC	Signature
«»202y.	№	9 1	
Revision date	Protocol No.	Chairman of the EPC	Signature
«	№		4

 Φ -044/270/01-2022

Protocol of approval of the subject "ICT" with other subjects for the 2023-2024 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	2	3
Introduction to scientific research (public health and biostatistics)	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 No 2028 y. Head of the Department to Ph.D. ass. professor Ivanova M.B. Reviewed at the meeting of the Department of Social Health Insurance and Public Health, Protocol No 202 y. Head of the Department
		to Ph.D., ass. professor G.ZH. Sarsenbaeva

Head of the Department Medical Biophysics and IT, PhD, ass. Professor

M.B. Ivanova.

Head of the department of Social Health Insurance and Public Health

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G.ZH. Sarsenbaeva

