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

Educational program 6B10118 – "Medical and preventive care"

	L	lucational program 6B10118 – Mec	iicai aiid	picve	chitive care				
1.	General informa	ation about the Course							
1.1	Course code: ICT	7 1105	1.	.6	Academic year: 2023-2024				
1.2	Course name: Inf	formation and communication technol	ogy 1.	.7	Year: 1				
1.3	Prerequisites: -			.8	Term: 1				
1.4	_	Introduction to scientific research (pub	olic 1.	Q	Number of credits (ECTS): 5				
	health and biosta	,							
1.5	•	l education discipline 1.10 Component: main component							
2.	Course descripti				9.0				
		ey sectors of development of societ							
		man-computer interaction. Database							
		nmunications. Cybersecurity. Inter- chnology. E-technology. Information							
	Prospects of develo		tecimoro	ogy iii	the professional sphere. Industrial				
3.	Summative asse								
3.1			3.5	Cor	ırsework				
	Testing V								
3.2	Writing		3.6	Ess					
3.3	Oral	B 10111 A	3.7		ject				
3.4		Practical Skills Acceptance	3.8	Oth	er (specify)				
4.	Discipline object			00.07104	some in the way of information and				
		e discipline. Formation of students 'cogies in practical and scientific activition		ce syst	ems in the use of information and				
5.		omes (Course learning outcomes)	es						
CLO1		knowledge and understanding of ter	me ralat	tad to	information and communication				
CLOI	technologies	diowicage and understanding of ter	ilis iciai	icu io	information and communication				
CLO2		sifies the main and additional comput	er device	es sele	cts software				
CLO3		s and knowledge in the field of inform							
		e, uses Internet resources, cloud and m			<u> </u>				
	processing, prot	ection and dissemination of informati	on						
CLO4		pes of information and communication		_	±				
		skills, the ability to communicate info	ormation,	, probl	ems and their solution, special				
	•	cessing medical data							
5. 1	Course learn-	The learning outcomes of the EP,	which ai	re rela	ted to the learning outcomes of				
	ing outcomes	the course	•						
	CLO1 CLO2	LO1 Analyzes critically and appli							
	CLO3 CLO4	based information and knowledge			oi socio-benaviorai, biomedical,				
	CLO3 CLO4	hygienic, epidemiological and clinic LO3 He is proficient in information			effectively uses information in the				
	CLO3 CLO4	field of ensuring the sanitary and epi		_	•				
		introduce new approaches within his		_					
		ensure the documentation of process			and the state of t				
	CLO3 CLO4	LO8 Collects information and med		d statis	stical analysis on the state of the				
		sanitary and epidemiological situat			•				
		various age and gender groups of th	e popula	ition, u	sing data from official accounting				
		and reporting documents, as well	as on	the ba	asis of preliminary and periodic				
		medical examinations							
6.	Details of the c	ourse							

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6.				t, Al-Farabi-1 sq., 53). Email address				floor, C	lassrooms	No. 500-
6.			Lecture	Prac. lesson	ıs	Lab.lessons		SIW		SIWT
	of hou		10	40		-		70		30
7	. Inform	nation	about teache	ers						
№	Full na	me	Degrees and title	Email address	Scie	entific interests,	, etc.		Achieven	nents
1.	Ivanova M Borisovna		PhD, Professor	marina- iv@mail.ru	equa proc	ory of different ations. Medical sessing with ATISTICA, SPS	data SS.	publicat 6 teachi textbool	tions, one ing aids, a k "Biosta	50 scientific monograph, an electronic atistics", an ary "ICT".
2.	Berdiyeva Meruyert Aimambet		PhD	meruert_berdie va @mail.ru	Inno meth	ovative teaching nods	5	Author	of over of ethodical 11	50 scientific articles, 1 methodical
3	Abdrimova Zakhira Maratovna	l	Master's degree Senior teacher	zakira75@mail. ru	med proc	ysis soft ATISTICS ical ressing	for data	"Collect biostatis languag several	stics" in the e. "ICT". scientific	oorts from the Kazakh Author of articles.
4	Imanbaeva Amanbaev		Master's degree Senior teacher	maral_81_19@ mail.ru	Inno meth			and met	hodical an methodic	*
- 8	8. The	matic _]	plan							
We ek/ Da y	Topic na	me		Summary			Cours learni g outcomes	n mb er	Forms / methods / learning technologies	assessm ent method
	of develor Standard ICT.	opmen s in t Introd r ture o	key sectors tof society. The field of systems. In computer to the systems of computer the LESSON.	Definition of ICT its purposes. Ar sectors of develor Communication achievement of the sustainable dev Millennium Decin the field of computer system computer system and componen systems. Use of Data representations. Computer lab recomputer lab re	opmer betweethe ob- relopm laratic f ICT ms. I ems. ts o comp	role in key nt of society. een ICT and ojectives of a nent in the on. Standards Γ.Review of Evolution of Architecture f computer uter systems. in computer	CLO 1	1	Lecture information	Feedbac i k (quick survey)
	Calculati productiv	on of vity o speed, costs,	metrics of f computer efficiency, Amdahl's		ts o comp tion ter sy	of computer uter systems. in computer estem: speed,	CLO 2		individu 1 task	

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		law, CPU time.				
	SIWT. Consultation on the implementation of an individual task 2 Development of flowcharts of computer devices. Stage 1	Consultation on the implementation of an individual task 1	CLO 2	2/5	individua l task	Logical flowcha rts
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.	CLO1	1	Lecture informati on	Feedbac k (quick survey)
	PRACTICAL LESSON. Determination of properties of an operating system. Operation with files and directories.	Multifunctional and single tasking operating system. File directories and folders in operating system.	CLO1 CLO2 CLO3	3	practicu m individua 1 task	oral survey practica l 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 CLO4	2/5	individua 1 task 2	compili ng 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	individu al task, oral survey
	SIWT Consultation on the implementation of an individual task 3 SIW. Collecting, the analysis and structurization of data in the professional environment (development of the database in the MS Access). Stage 1.	Creation of databases in MS Access for application in professional sphere	CLO3 CLO4	2/4	individua 1 task 3	creating databas e
4	LECTURE. Database systems	Bases of database systems: concept, characteristic, architecture. Data models. Normalization. Integrity constraint on data. Query tuning and their processing. Fundamentals of SQL. Parallel processing of data and their restoration. Design and development of databases. Technology of programming of	CLO1	1	Lecture- informati on	Feedbac k (quick survey)

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		ORM. The distributed, parallel and heterogeneous databases.				
	PRACTICAL LESSON. Development of database structure, creation of tables and requests. Working with a Access database.	The database management system: definitions and functions, basic architectural solutions. The date model of DB. Creating medical database: tables, queries. Working with Forms and Reports.	CLO2	3	computer based teaching	oral survey creation of tab- les and requests
	SIWT Consultation on the implementation of an individual task 4 SIW.Collecting, the analysis and structurization of data in the professional environment (development of the database in the MS Access). Stage 2.	Creation of databases in MS Access for application in professional sphere	CLO4 CLO3	2/4	individua 1 task 4	for preparat ion crosswo rd
5	LECTURE. Data analysis. Data management	Data analysis bases. Methods of collection, classification and prediction. Decision trees. Processing of large volumes of data. Methods and stages of Data mining. Tasks Datamining. Visualization of data.	CLO1	1	Lecture informati on	Feedbac k (quick survey)
	PRACTICAL LESSON. Design and creation of the presentations of lecture material, scientific reports, etc.	Creating of presentations, entering text on a slide. Adding of pictures and clip art. MS PowerPoint: adding of hyperlinks, animations and sound effects	CLO2	3	computer based teaching	individu al task spreads heets, 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	CLO3 CLO4	2/4	individua 1 task 5	creating presenta tion
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, queries. Working with Forms and Reports.	CLO2 CLO3	2	computer based teaching	individu al 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	individua l task 6	creating of MCQs
7	LECTURE. Networks and telecommunications	End devices, data transfer devices, transmission medium. Types of networks. Stack protocols: TCP/IP,	CLO1	1	Lecture informati on	Feedbac k (quick

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		OSI. IP addressing. Local and wide				(ILEVOV)
		area networks. Wire and wireless				survey)
		network technologies. DHCP				
		protocol. Technologies of				
		connection to the Internet.				
		Telecommunication technologies.				
	PRACTICAL LESSON.	Networks and telecommunications.		3		individu
	Creation of a simple	Classification of networks. Types				al task,
	network configuration. IP	of topologies. Types of servers.			Work in	oral
	addressing. Monitoring of a	Jr.	CLO2		pairs,	survey
	network. Analysis of		CLO3		partial	J
	traffic. Use of sniffers for				search	
	the analysis of network					
	packets.					
	SIW. midterm control 1		CLO1	2/3	-	Testing
	accepting					MCQ
	SIWT. Preparation for the					
	midterm control1					
8	LECTURE. Cybersecurity	Security risks of information and	CLO1	1	Lecture	Feedbac
		their classification. Industry of			informati	k
		cybersecurity. Cybersecurity and			on	(quick
		control of the Internet. Malicious				survey)
		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				
		sphere of information security.				
		Electronic digital signature.				
	DD A CONTO A A A FORGON	Encryption.		2		
	PRACTICAL LESSON.	Security risks of information and		3		individu
	Use of hardware and	their classification. Measures and				al task,
	software for key	means of information protection.				oral
	generation. Application of	Antivirus software. Archiving			XX71 - :	survey
	the EDS and encoding in	utility.			Work in	
	case of message exchange		CI O2		pairs,	
	by E-mail. Settings of the		CLO3		computer based	
	Firewall program element of the computer network				teaching	
	for network traffic				teaching	
	monitoring and filtering.					
	Working with the various					
	antivirus programs.					
	SIWT Consultation on the	Development of presentation and	CLO4	2/3	individua	compili
	implementation of an	web site with information base	CLO3	_, _,	1 task 8	ng the
	individual task 8	about anti-virus programs			I MOR O	glossary
	SIW. Comparative analysis	acout mili iliao programo				for pre-
	of antivirus means of					paration
	information protection.					crosswo
	mioimation protection.					

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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	CLO2 CLO3	2	work in pairs, tasks	individu al 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	individua l task 9	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. 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.	CLO1	1	Lecture informati on	Feedbac k (quick survey)
	PRACTICAL LESSON. 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.	Internet technologies. History of the Internet development. Basic 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.	CLO3	3	Compute r based teaching	individu al task, oral survey

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	GSM a signaling.					
	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.	CLO3 CLO4	2/3	individua 1 task 10	compili ng the glossary preparat ion crosswo rd
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 technologies for planning, descriptions of business processes and their visualization.	CLO1	1	Lecture informati on	Feedbac k (quick survey)
	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.	CLO3 CLO4	2/3	individua 1 task 11	creating of video, preparat ion crosswo rd
12	Operation with Smart- applications: Smart TV, Smart Hub, etc.	Creation project skills by working with Google Slides.	CLO2 CLO3	2	computer based teaching	individu al task, creating slides
	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.	CLO3 CLO4	2/3	individua 1 task 12	creating of an emblem , compili ng the glossary
13	LECTURE. E-technology. Electronic business. Electronic training.	Electronic business: Main models of electronic business. Information infrastructure of electronic business. Legal regulation in	CLO1	1	Lecture informati on	Feedbac k (quick survey)

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	PRACTICAL LESSON. Operation with services on the website of the electronic government	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. Electronic government: concept, architecture, services. Formats of implementation of the electronic government in developed countries. "Infrastructure of e-government. E-	CLO3	3	computer based teaching	individu al task, oral survey
	http://egov.kz/cms/ru/gove rnment-service s/for_citizen: registration of requests, obtaining counterparts of documents, etc.	services in the Healthcare."				
	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.	CLO3 CLO4	2/3	individua 1 task 13	develop ment of graphic objects on medicin e
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	CLO1	1	Lecture informati on	Feedbac k (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	individu al task, oral survey

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								10	
	ST	W. midterm cor	ntrol 2			CLO1	2/3		Testing
		epting	101 2			CLOI	2/3		MCQ
			n fan tha						MCQ
		WT. Preparation	n for the						
		dterm control 2							
15		ACTICAL LES			n and use of application		2	computer	individu
	Ins	tallation and use	e of		in the professional	CLO3		based	al task,
	app	olication program	ms in the	sphere. In	troduction to			teaching,	oral
	pro	fessional sphere	e.	STATIST	TCA 10. Setting				survey
		orking in the Ma		document	s appearance and worl	king			
		vironment for so			ts in STATISTICA 10				
		l technical com							
		orking with the							
		olboxes for appli							
		blem solving.	ica						
-		WT Consultati		Tr 411-	£	CI 02	2/2		
					from students about the		2/3		creating
		implementation		results of	learning outcomes.	CLO4		individua	of MCQ
		ividual task 15.						1 task 15	
		W. Defense	of the					1 000511 10	
		*	udy of						
		dents.							
	Exa	am preparation	and conduc	cting			15		
9.		Training Met	hods and	Control Fo	orms				
9.1		lectures			formation (feedback of	mick survey)			
9.2		Practical lesso	ns	Practical work, oral survey, solve problems					
9.3		SIW / SIWT	115	individual task logical flowchart screen recording video, project,					
7.2	,	51 W / 51 W 1		presentation					
9.4	1	Mid-term exa	noin oti on	Testing (MCQ)					
				Testing (wey)					
10.		Evaluation cr		the learning outcomes of a subject					
10.1	<u>l. </u>		valuating	the learnin	ig outcomes of a subj	ect		T	
No		Name of							
LO		learning	Dissat	isfying	Satisfying	Good		Exce	ellent
LO		outcomes							
LO1	D	emonstrates	1) Partly	acquired	1) Acquired basic	1) Acquired	Acquired basic		ed basic
	kr	nowledge and	basic terr	ns of	terms of ICT;	terms of ICT	`;	and exten	ded terms
	pe	erception	ICT;		2) Partly knows the	2) Partly kno	ws the	of ICT;	
		rms related to		knows the	role of ICT in key			2)Knows	the main
		formation and	role of IC		aspects of	1 1		principles	
		ommunication	aspects of	•	developed society;	key aspects of		role of ICT in the	
			d society;	3) Partly defines	developed so		key aspec		
			ot define	the characteristics	3) Defines the	•	developed		
			cteristics	of modern personal	characteristic		3) Define		
			n personal	computer;	modern pers		characteri		
					_	onai			
	data exchange. computer:			4) Partly orients in	computer;		modern p		
	4) Does n			information	4) Orients in		computer		
	in informa			recycle, important	information		4) Orients		
	recycle, in		•	in solving tasks	recycle, imp		information		
	in solving		•	(massive	in solving ta	sks	recycle, ii	-	
			(massive		information tools,	(massive		in solving	tasks
			tion tools		databases,	information	tools,	(massive	
			ses, infor	mation	information and	databases,		information	on tools,
			and comn	nunica-	communication	information	and	databases	,
1	1		tion syste	ms In-	systems, Internet	communicat	ion	information	
			tion by site	1110, 111					

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		1	1	T	·
		ternet dictionaries,	dictionaries,	systems, Internet	communication
		glossaries ency-	glossaries	dictionaries,	systems, Internet
		clopedia and etc.);	encyclopedia and	glossaries	dictionaries,
		5) Does not know	etc.);	encyclopedia and	glossaries
		about following	5) Partly knows	etc.);	encyclopedia and
		safety	about following	5) Partly knows	etc.);
		requirements and	safety	about following	5) Knows about
		hygiene during the	requirements and	safety	following safety
		work with	hygiene during the	requirements and	requirements and
		computers.	work with	hygiene during the	hygiene during the
		computers.		work with	work with
			computers.		
T 02	G 1	1) D 1 1 10	1) 75 .1 .1 .10"	computers.	computer
LO2	Selects and	1) Poorly classifies	1) Partly classifies	1) Can classify the	1) classifies the
	classifies basic	the functional	the functional	functional circuits	functional circuits
	extra additional	circuits of the	circuits of the	of the computer	of the computer
	devices and	computer and their	computer and their	and their devices;	and their devices;
	software	devices;	devices; 2) Partly	2) Can compare	2) Can compare
		2) Finds difficult to	compares the sizes	the sizes of files of	the sizes of files of
		compare the sizes	of files of different	different formats	different formats
		of files of different	formats that store	that store the same	that store the same
		formats that store	the same	information	information
		the same	information	3) Evaluates	3) Evaluates
				,	*
		information	3) Poorly evaluates	information,	information,
		3) Poorly 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 correct
		know how to	distinguish correct	argumentation	argumentation
		distinguish correct	argumentation	from incorrect;	from incorrect;
		argumentation	from incorrect;	4) classifies	4) classifies
		from incorrect;	4) classifies	computer networks	computer networks
		4) classifies	computer networks	and explains the	and explains the
		· '		-	•
		computer networks	and explains the	advantages of wireless	advantages of
		and explains the	advantages of		wireless
		advantages of	wireless	communication	communication
		wireless	communication	5) selects various	5) selects various
		communication	5) selects various	data formats for	data formats for
		5) selects various	data formats for	solving problems	solving problems
		data formats for	solving problems	in spreadsheets	in spreadsheets
		solving problems	in spreadsheets		
		in spreadsheet			
LO3	Applies	1) Partially uses	1) Uses Internet	1) Uses Internet	1) Uses Internet
	methods and	Internet resources,	resources, cloud	resources, cloud	resources, cloud
	information and	cloud and mobile	and mobile	and mobile	and mobile
	communication	services for the	services for the	services for the	services for the
	technology	search, storage,	search, storage,	search, storage,	search, storage,
	awareness on	processing,	processing,	processing,	processing,
	medical	protection and	protection and	protection and	protection and
	practice	dissemination of	dissemination of	dissemination of	dissemination of
		information	information	information	information

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		2)	2) Dt:-11	2) 11 41	2) 11 41
		2) cannot use the	2) Partially uses	2) Uses the	2) Uses the
		database in	the database in	database in	database in
		practice;	practice;	practice;	practice;
		3)Cannot test the	3) Cannot test the	3) Can test the	3) Can test the
		used hardware and	used hardware and	used hardware and	used hardware and
		software;	software;	software;	software;
		4) Finds difficult to	4) Finds difficult to	4) Uses text editors	4) Uses text editors
		use text editors to	use text editors to	to create and	to create and
		create and design	create and design	design text	design text
		text documents	text documents	documents	documents
		(formatting,	(formatting,	(formatting,	(formatting,
		saving, copying	saving, copying	saving, copying	saving, copying
		fragments, etc.);	fragments, etc.);	fragments, etc.);	fragments, etc.);
		5) does not know	5) hesitantly	5) Partially applies	5) Applies the
		how to apply the	applies the	the acquired skills:	acquired skills: to
		acquired skills: to	acquired skills: to	to plot the	plot the functions
		plot the functions	plot the functions	functions specified	specified in the
		specified in the	specified in the	in the table and	table and create
		table and create	table and create	create diagrams in	diagrams in the
		diagrams in the	diagrams in the	the	spreadsheet;
		spreadsheet.	_	spreadsheet;	spreadsheet,
1.04	Uses varieties		spreadsheet;		1) Uses modern
LO4		1) does not use	1) Partly uses	1) Uses modern	/
	of information	modern software,	modern software,	software, does not	software, does not
	and	does not analyze	does not analyze	analyze medical	analyze medical
	communication	medical data using	medical data using	data using various	data using various
	technology in	various special	various special	special software	special software
	personal	software and does	software and does	and does not	and does not
	performance:	not interpret the	not interpret the	interpret the	interpret the
	internet	results;	results;	results;	results;
	sources, cloud	2) does not use the	2) Partly uses the	2) Uses the	2) Uses the
	and mobile	information	information	information	information
	services of	resources of the	resources of the	resources of the	resources of the
	searching,	society and	society and	society and	society and
	storing,	electronic	electronic	electronic	electronic
	recycling,	means of	means of	means of	means of
	protecting and	communication in	communication in	communication in	communication in
	sharing	educational and	educational and	educational and	educational and
	information.	practical activities;	practical activities;	practical activities;	practical activities;
		3) does not use	3) Partly uses	3) uses	3) uses
		presentation	presentation	presentation	presentation
		graphics tools	graphics tools	graphics tools	graphics tools
		when preparing	when preparing	when preparing	when preparing
		and conducting	and conducting	and conducting	and conducting
		oral materials	oral materials	oral materials	oral materials
		4) does not create	4) hardly creates	4) creates cloud	4) creates cloud
		cloud data stores	cloud data stores	data stores	data stores
		5) does not know	5) does not know	5) Partly uses	5) Uses software
		how to use	how to use	software tools	tools designed to
		software tools	software tools	designed to work	work with this type
		designed to work	designed to work	with this type of	of information and
		_	_	information and is	
		with this type of	with this type of		is guided by their
		information and is	information and is	guided by their	compliance with

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		guided by their	guided by their	compliance with	the task		
		compliance with	compliance with	the task			
		the task	the task				
10.2.			thods and technologi	es			
		of practical lessons					
Control	Accecment	Cri	iterion for assessmen	t of students' knowle	edge		
Exellent A (95-100%) A- (90-94%) - does not allow any errors, inaccuracies; - demonstrates knowledge of theoretical material on the topic under cord critical assessment; - determines the relationship of the topic under consideration with profession, gives specific practical examples; - refers to additional literary sources when answering, has an additional							
Oral response	Good B+ (85-89%) B (80-84%) B- (75-79%) C+ (70-74%)	demonstrates knowthe answer was limorientates itself in t	 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 und 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 fundamentadoes not know thedid not systematize	l errors; theoretical material on the educational mater	the topic under constrial on the topic under			
	Excellent A (95-100%) A- (90-94%)	- demonstrates exterprograms and MS O - knows the purpose - complies with the purpose - demonstrates the number of the complies with the purpose - demonstrates the number of the complies with the purpose - knows how to creatly and difficulties - leverages local and the complies are searches for informulation of the complies the	- 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;				
Work on a computer	- installs software on PCs and mobile applications on a smartphone Good B+ (85-89%) B (80-84%) B- (75-79%) C+ (70-74%) C+ (70-74%) C+ (70-74%) - complies with safety rules when working with standard Windows OS programment and MS Office applications; - knows the purpose of the main and perefiry devices of the PC; - complies with some principles of information protection; - demonstrates the norms of information ethics - knows how to create, edit, design, store, transfer information objects of a certatype 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; - has difficulty installing software on PCs and mobile applications on a smartphone Satisfactory C (65-69%) C (60-64%)				n objects of a certain te on information;		
Work	•	searches for informhas difficulty instalknows the safety ru	nation of various naturalling software on PCs and les when working with active knowledge who	e on the Internet; and mobile applicatio h equipment;	ns on a sr		

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	D+ (50-54%) - knows the purpose of the main and partially peripheral devices of the PC;					
		- does not know how to protect information;				
		- does not comply with the norms of information ethics;				
		- knows how to create, edit, design, store, transfer simple in	formation o	bjects using		
	some software tools;					
	- does not use the capabilities of the local and wide area networks to collaborate					
		information;				
		- searches for selective information on the Internet;				
		- has difficulty installing software on PCs and mobile applicat	tions on a sr	nartphone.		
	Unsatisfactory	- knows the safety rules when working with equipment;				
	FX (25-49%)	- it is difficult when working with standard Windows OS pr	ograms and	l MS Office		
	F (0-24%)	application programs;				
		- knows the purpose of the main and partially peripheral device	ces of the Po	C;		
		- does not know how to protect information;				
		- does not know the norms of information ethics				
		- it is difficult to create, edit, design, store, transfer information	on objects u	sing modern		
		software tools and online services;				
		- does not use the capabilities of the local and wide area net	works to co	llaborate on		
		information;				
		- searches for selective information on the Internet;				
		- has difficulty installing software on PCs and mobile applicat	tions on a sr	nartphone		
	Checklist for a	ssessing of SIW				
SIW	1			_		
	Task 1. Creating a		Max 30	Min 15		
1.		algorithm are logically correct;	20-30	Exellent		
		d input and output data;				
	- there are no error	s in the use of structural elements of the scheme and				
	algorithm;					
		the flowchart and algorithm without errors.				
2.	- the flowchart and	algorithm are logically correct, but 1-2 errors or 2-3	10-20	Good		
	shortcomings may					
3.	- mistakes were ma	ade in the algorithm, structural elements of the flowchart are	0-10	Satisfacto		
	incorrectly used;			ry		
	- when explaining	the algorithm, the flowchart, the student experienced				
	difficulties, which	were corrected with the help of the teacher;				
	Task 2. Creating d	atabases	Max 50	Min 25		
1.	- DB corresponds t	to a certain subject area;	40-50	Exellent		
	- The database con	tains 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;					
	- DB contains simple and cross queries;					
	- The database contains reports.					
2.	- DB corresponds t	to a certain subject area;	30-40	Good		
	- The database con	tains several interrelated tables;				
	- DB tables consist	of fields containing different types of data, including graphic				
	ones;					
		t of at least 10 lines;				
	- DB contains form	ns;				

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	- The database contains simple queries;		
	- The database contains simple queries, - The database contains reports.		
3.	- DB corresponds to a certain subject area;	10-30	Satisfacto
٥.	- The database contains several tables;	10-30	ry
	- DB tables consist of fields containing different types of data;		1 y
	- DB tables consist of fields containing different types of data, - DB tables consist of less than 10 rows.		
4.	- DB does not correspond to a certain subject area;	0-410	Unsatisfa
4.	- The database contains only one table;	0-410	
	- table fields contain different types of data;		ctory
	- The table contains less than 10 rows.		
	Task 3. Crosswords	Max 10	Min 5
1.		5-10	Exellent
1.	- Crosswords is based on a given topic;	3-10	Exellent
	- 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;		
	·		
2.	- the work is originally designed.	0-5	Good
۷.	Crosswords is based on a given topic;Crosswords contains grammatical and punctional errors;	0-3	Good
	- Crosswords contains less than 20 questions;		
	- there is a sheet with tips for verification.	M 10	M: F
1	Task 4. Glossary	Max 10	Min 5
1.	- Glossary is composed on a given topic;	5-10	Exellent
	- Glossary contains at least 20 terms and definitions;		
	- definitions are exact, concise, do not contain syntactic errors;		
2	- the work is originally designed.	0.5	G 1
2.	- Glossary is composed on a given topic;	0-5	Good
	- Glossary contains less than 20 terms and definitions;		
	- the definitions contain inaccuracies, errors, are raw material;		
CITAT	- the work is casually executed.		
SIW		34 50	N4: 05
1	Task 1. Creating a Presentation	Max 50	Min 25
1.	- presentation corresponds to the topic;	40-50	Exellent
	- a single design style is observed, the style does not distract from the content of		
	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		
2	graphic and color solution within the entire presentation).	20.40	G 1
2.	- presentation corresponds to the topic;	30-40	Good
	* * * * * * * * * * * * * * * * * * *		
	- a single design style is observed, the style does not distract from the content of		
-•	- a single design style is observed, the style does not distract from the content of the presentation;		
-•	a single design style is observed, the style does not distract from the content of the presentation;the same type of slides are used;		
_ .	 a single design style is observed, the style does not distract from the content of the presentation; the same type of slides are used; slides are loaded with information, difficult to read, do not contain syntactic 		
	 a single design style is observed, the style does not distract from the content of the presentation; the same type of slides are used; slides are loaded with information, difficult to read, do not contain syntactic and punctuation errors; 		
	 a single design style is observed, the style does not distract from the content of the presentation; the same type of slides are used; slides are loaded with information, difficult to read, do not contain syntactic and punctuation errors; graphic and animation elements are used; 		
	 a single design style is observed, the style does not distract from the content of the presentation; the same type of slides are used; slides are loaded with information, difficult to read, do not contain syntactic and punctuation errors; graphic and animation elements are used; design principles are partially observed. 	10.20	
3.	 a single design style is observed, the style does not distract from the content of the presentation; the same type of slides are used; slides are loaded with information, difficult to read, do not contain syntactic and punctuation errors; graphic and animation elements are used; 	10-30	Satisfacto ry

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	the presentation;		
	<u>-</u>		
	- the same type of slides are used;		
	- slides are loaded with information, difficult to read, contain syntactic and		
	punctuation errors;		
	- graphic and animation elements are used;		
4	- design principles are not observed.	0.10	Unsatisfa
4.	- presentation does not correspond to the topic;	0-10	
	- the uniform design style is not observed, the style distracts from the content of		ctory
	the presentation;		
	- the same type of slides are used;		
	- slides are loaded with information, difficult to read, contain syntactic and		
	punctuation errors;		
	- graphic and animation elements are not used;		
	- design principles are not observed.	14 20	3.6: 1.5
1	Task 2. Drawing up test questions	Max 30	Min 15
1.	- test tasks correspond to the topic;	20-30	Exellent
	- 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.		
	- test tasks correspond to the topic;		
	- contain 15-20 questions;		
	- the questions are formulated clearly, correctly, specifically;		
	- responses are not of the same type and adequate;		
	- there are correct answers.	10.20	
2.	- test tasks correspond to the topic;	10-20	Good
	- contain 10-15 questions;		
	- questions are formulated vaguely, incorrectly, not specifically;		
	- responses are not of the same type and adequate;		
	- there are correct answers.	0.10	9
3.	- test tasks do not correspond to the topic;	0-10	Satisfacto
	- contain less than 10 questions;		ry
	- questions are formulated vaguely, incorrectly, not specifically;		
	- 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; 	5-10	Exellent
	- more than 50 terms are used;		
	- terms do not contain grammatical errors;		
	- the work is originally designed.		
2.	- word cloud is composed according to the specified topic;	0-5	Good
	- less than 50 terms are used;		
	- terms contain grammatical errors;		
	- the work is originally designed.		
	Task 4. Glossary	Max 10	Min 5
1.	- Glossary is composed on a given topic;	5-10	Exellent
	- Glossary contains at least 20 terms and definitions;		
	- definitions are exact, concise, do not contain syntactic errors;		
	- the work is originally designed.		
2.	- Glossary is composed on a given topic;	0-5	Good
		0-3	
	- Glossary contains less than 20 terms and definitions; - the definitions contain inaccuracies, errors, are raw material;	0-3	

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	- the work is casually executed.		
SIW	3		
	Task 1. Knowledge Base Logic scheme	Max 30	Min 15
1.	 - the scheme is simple and concise, placed on one page; - basic and sufficient concepts on the topic are highlighted as elements of the scheme; - circuit elements are arranged so that their hierarchy is clear (for example, 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. 		
2.	 - the diagram is placed on one page; - basic and sufficient concepts on the topic are highlighted as elements of the scheme; - hierarchy of circuit elements is not traced, material is presented chaotically; - logical connections are established between the circuit elements (inside the circuit and external, i.e., relationship with adjacent circuits); - the diagram is not visual. 	10-20	Good
3.	 the diagram is placed on more than one page; elements of the scheme are not basic and sufficient concepts on the topic; hierarchy of circuit elements is not traced, material is presented chaotically; no logical connections are established between the circuit elements; the diagram is not visual. 	0-10	Satisfacto ry
	Task 2. Creating website	Max 50	Min 25
1.	 the website corresponds to the selected topic, the main ideas of the project are revealed and substantiated; the organizational structure is clear; the site has its own style - typography (artistic design of text using fonts, symbols and signs) and the general design of Good are combined; the color palette is correctly used; different types of blocks (tabs, shapes,contacts, card, counters,etc. are used at least 3 included are hyperlinks to other sources of information on subjects not less than 5; the site contains several pages (2 or more); there are no grammatical and syntactic errors in the content; graphic objects are included. 	40-50	Exellent
2.	 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; different types of blocks (tabs,shapes,contacts,card,counters, etc.) are used 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. 	30-40	Good
3.	 the website corresponds to the selected topic; navigation elements are illogical; typography and general design are not combined; 	10-30	Satisfacto ry

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	- background and color do not correspond to each other;- blocks of different types (tabs, shapes, contacts, card, counters, etc.) less than 2		
	are used;		
	- 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.		
4.	- the website does not match the selected topic;	0-10	Unsatisfa
4.	- navigation elements are illogical;	0-10	
			ctory
	- 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 2		
	are used;		
	- there are no hyperlinks to other sources of information on the topic;		
	- the site consists of 1 page;		
	- content is difficult to perceive;		
	- there are grammatical and syntactic errors in the content.	M. 10	3415
1	Task 3. Word cloud	Max 10	Min 5
1.	- word cloud is composed according to the specified topic;	5-10	Exellent
	- more than 50 terms are used;		
	- terms do not contain grammatical errors;		
	- the work is originally designed.		
2.	- word cloud is composed according to the specified topic;	0-5	Good
	- less than 50 terms are used;		
	- terms contain grammatical errors;		
	- the work is originally designed.		
	Task 4. Glossary	Max 10	Min 5
1.	- Glossary is composed on a given topic;	5-10	Exellent
	- Glossary contains at least 20 terms and definitions;		
	- definitions are exact, concise, do not contain syntactic errors;		
	- the work is originally designed.		
2.	- Glossary is composed on a given topic;	0-5	Good
	- Glossary contains less than 20 terms and definitions;		
	- the definitions contain inaccuracies, errors, are raw material;		
	- the work is casually executed.		
SIW	⁷ 4		
	Task 1. Creating Videos	Max 30	Min 15
1.	- the video is informative, informative, the topic is disclosed;	20-30	Exellent
	- the director's decision is original;		
	- there are visual effects of the video sequence: credits, text screensavers,		
	graphic screensavers, logo;		
	- participation in the author's video;		
	- 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.		
2.	- the video is informative, the topic is disclosed;	10-20	Good
	- 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 video sequence, high-quality sound, volume is adjusted, sound and image are		

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- working with image effects: brightness, contactness, cropping; - video duration 2-3 minutes. 3 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 sequence, the sound is poor; - the images are not bright, the contortion is not observed, the images are distorted; - video duration is less than 2 minutes. Task 2. Creating emblems, logos 1. the image is unique (original, unique); - the image is associative - each of its elements should be associated with the selected field of activity, any line makes sense; - the image is sonciase - the simpler the image, the better perceived it is; - the image is universal - it is possible to place on the site, on clothes, etc the color palete 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) 2 the image is not unique (original, unique); - the image is not unique (original, unique); - the image is not unique; - the original image; - color palette is not used correctly. Task 3. Word cloud - word cloud is composed according to the specified topic; - the work is originally designed. Task 4. Glossary - Glossary contains at least 20 terms and definitions; - delimitions are exact, concise, do not contain syntactic errors; - the work is originally designed. Task 4. Glossary is composed on a given topic;		synchronous;		T
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-The color palette is not used correctly. Task 3. Word cloud Nax 10 Min 5 - word cloud is composed according to the specified topic; - more than 50 terms are used; - 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; - terms contain grammatical errors; - the work is originally designed. Task 4. Glossary - Glossary is composed on a given topic; - Glossary contains at least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed. - 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; - Glossary is composed on a given topic; - Glossary is composed on a given topic;				ctory
Task 3. Word cloudMax 10Min 51 word cloud is composed according to the specified topic; - more than 50 terms are used; - terms do not contain grammatical errors; - the work is originally designed.5-10Exellent2 word cloud is composed according to the specified topic; - less than 50 terms are used; - terms contain grammatical errors; - the work is originally designed.0-5GoodTask 4. GlossaryMax 10Min 5- Glossary is composed on a given topic; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed.5-10Exellent- Glossary is composed on a given topic; - the work is originally designed.0-5Good				
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- 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; - terms contain grammatical errors; - the work is originally designed. - Glossary - Glossary is composed on a given topic; - Glossary contains at least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed. - Glossary is composed on a given topic;	1.	- word cloud is composed according to the specified topic;	5-10	Exellent
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- less than 50 terms are used; - terms contain grammatical errors; - the work is originally designed. Task 4. Glossary - Glossary is composed on a given topic; - Glossary contains at least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed. - Glossary is composed on a given topic; - Good	2.	- word cloud is composed according to the specified topic;	0-5	Good
- the work is originally designed. Task 4. Glossary - Glossary is composed on a given topic; - Glossary contains at least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed. - Glossary is composed on a given topic; 0-5 Good				
- the work is originally designed. Task 4. Glossary - Glossary is composed on a given topic; - Glossary contains at least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed. - Glossary is composed on a given topic; 0-5 Good		- terms contain grammatical errors;		
Task 4. Glossary - Glossary is composed on a given topic; - Glossary contains at least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed. - Glossary is composed on a given topic; Min 5 Exellent O-5 Good				
- Glossary is composed on a given topic; - Glossary contains at least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed Glossary is composed on a given topic; 5-10 Exellent 5-10 Good			Max 10	Min 5
- Glossary contains at least 20 terms and definitions; - definitions are exact, concise, do not contain syntactic errors; - the work is originally designed Glossary is composed on a given topic; 0-5 Good		Ÿ	5-10	Exellent
- definitions are exact, concise, do not contain syntactic errors; - the work is originally designed. - Glossary is composed on a given topic; 0-5 Good				
- the work is originally designed. - Glossary is composed on a given topic; 0-5 Good		· ·		
- Glossary is composed on a given topic; 0-5 Good				
		• • •	0-5	Good
		- Glossary contains less than 20 terms and definitions;		

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	- the definitions contain inaccuracies, errors, are raw material;			
	- the work is casually executed.			
SIW	5			
	Task 1. Creation of graphic objects related to the future profession	M	ax 70	Min 30
l.	- the image is unique (original, unique);)-50	Exellent
	- the image is associative - each of its elements should be associated with	the		
	chosen field of activity, any line makes sense;			
	- the image is concise – the simpler the image, the better it is perceived;			
	- the color palette is used correctly.			
2.	- the image is unique (original, unique);	30)-40	Good
	- the image is not associative enough;			
	- the image is overloaded with parts;			
	- the color palette is correctly used;			
	- the image is unique;	10)-30	Satisfacto
	- the image is not associative enough;			ry
	- color palette is not used correctly;			
l .	- the image is not unique, it is not self-sufficient;	0-	10	Unsatisfa
	- image is non-associative;			ctory
	-The color palette is not used correctly.			
	Task 2. Drawing up test questions	M	ax 30	Min 15
	- test tasks correspond to the topic;	20)-30	Exellent
	- 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.			
	- test tasks correspond to the topic;			
	- contain 15-20 questions;			
	- the questions are formulated clearly, correctly, specifically;			
	- responses are not of the same type and adequate;			
	- there are correct answers.			
2.	- test tasks correspond to the topic;	10)-20	Good
	- contain 10-15 questions;			
	- questions are formulated vaguely, incorrectly, not specifically;			
	- responses are not of the same type and adequate;			
	- there are correct answers.			
3.	- test tasks do not correspond to the topic;	0-	10	Satisfacto
	- contain less than 10 questions;			ry
	- questions are formulated vaguely, incorrectly, not specifically;			
	- responses are not of the same type and adequate;			
	- correct			
	answers are not specified.			
Chec	k List for midterm control			
_	Č	ax 100	Min :	
)-100	Exell	
	<u> </u>)-89	Good	
)-69	Satis	factory
Γest t	ime is determined by the instructor (not more than 50 min)	50	unsat	isfactory
≀inal	control			

Grading by letter system A Digital equivalent of points Percentage Assessment according to the traditional system A 4,0 95-100 Exellent

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A -	3,67	90-94		
B+	3,33	85-89		
В	3,0	80-84	Good	
B -	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	
F	0	0-24	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.текст.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. 147c 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. Учебнометодическое 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/ 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, Coursera, 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.-

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359p

- 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 8.

Additional Literature

- 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. Алматы: Эверо.-2014

Electronic database 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/ Open University of Kazakhstan 4 https://openu.kz/kz Law (access in the reference and information sector) https://zan.kz/ru Scientific Electronic Library https://elibrary.ru/ 8 **Open Library** https://kitap.kz/ www.webofknowledge.com 9 Thomson Reuters 10 ScienceDirect http://www.sciencedirect.com https://www.scopus.com/ 11 Scopus 12 Digital library «Aknurpress» https://aknurpress.kz/login

12. Course policy

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;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.

	·· <i>B</i> ··· ·· ·· ··		
13.	3. 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

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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:

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MCM average x 0.2+CCM average 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%.

$90 \times 0.4 = 36$ 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 \times 0.2+CCM average \times 0.4+FC \times 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.

14. Approval and revision			
Approval date	Protocol No.	Head of the Department	Signature
« <u>26</u> » <u>65</u> 202 ³ y.	No/2	Ivanova M.B.	0
Approval date	Protocol No.	Chairman of the EPC	Signature /
« y 2025 y.	Nº	Eskerova S.U	Seff
Revision date	Protocol No.	Head of the Department	Signature
«	№		
Revision date	Protocol No.	Chairman of the EPC	Signature
«»202y.	№		

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	
1.Introduction to	The ICT course deals with the processing of	Reviewed at the meeting of the	
scientific research	numerical data and their visualization through	Department of Medical	
(public health and	the use of Excel spreadsheets, Statistica.	Biophysics and IT	
biostatistics)	The content and sequence of presentation of	Protocol № 12	
	the material on the ICT discipline is considered	"46 "05 2023 y	
	appropriate	Head of the Department	
		to Ph.D., ass professor	
		Ivanova M.B.	
5		Reviewed at the meeting of the	
		Department of Social Health	
		Insurance and Public Health,	
		Protocol №	
		" "y.	
		Head of the Department	
		(topoe for	
		to Ph.D., ass. professor	
		Sarsenbaeva G.ZH.	

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

Sarsenbaeva G.ZH.

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