CIT Department's Curriculum for the 2020-2021 Academic Year -- Bachelor`s Degree 122 "Computer Science in Medicine" (4 year)

	CIT Department's Curriculum		UZU-Z()21 A(aueiiii	ic rear				iputer i	Science i	ii Mediciii	- ` `		C 1					
ne		Semester of	control		+	_			Hours				Nui	mber (of class	room l	nours i	n cour	ses and	semesters
scipline				work	project	credits	unt		Classroom			lent	1 co	ourse	2 курс		3 курс		4 курс	
f discij	DISCIPLINE TITLE	ns	ts	ourse	rse 1		amount	al	res	work	Practical training	Independent	1	2	3	4	5	6	7	8
of.		Exam	Tests	Co	Course	ECTS	Total	Total	Lectures	I .	Practica training	лдер				of stud		ks in th	e seme	
$^{N}_{0}$							Ĭ		7	Lab	P	-	15	18	15	18	15	18	15	13
1	2	3	1	5	6	7	8	Q	10	11	12	13	14	15	16	17	18	19	20	21
1	2	3	1 M A	NID A	TODV	FDUCAT	I ONAL DI			11	12	13	14	13	10	17	10	19	20	21
			1 MIA				general train		ES .											
1.1.1	Introduction to the educational process	<u> </u>	1	<u> </u>	Disc	2,0	60	30	15		15	30	2		<u> </u>		I			
		1	1			4,0	120	45	30			75	3							
	History of Ukraine	1	1 2					+	 		15		3	1.5			-			
	History of Ukrainian culture (2a)		1			3,0	90	30	20		10	60	2	1,5						
	Fundamentals of descriptive geometry and engineering graphics		1			3,0	90	45	15		30	45	3							
1.1.5	Foreign language (for professional purposes)		1			6,0	180	66	-		66	114	-				-			
	Foreign language (for professional purposes)	 	1			3,0	90	30			30	60	2							
4.4.5	Foreign language (for professional purposes)	_	2			3,0	90	36			36	54	_	2						
1.1.6	Algorithmization and programming, medical data processing	1				4,0	120	75	30	45		45	5							
1.1.7	Object-oriented programming	2				4,0	120	72	36	36		48		4						
1.1.8	Higher mathematics					15,0	450	231	99		132	219								
	Higher mathematics					7,0	210	105	45		60	105	7							
	Higher mathematics	2				8,0	240	126	54		72	114		7						
	Discrete mathematics	1				3,5	105	60	30	30		45	4							
1.1.10	Fundamentals of labor protection and life safety	6				4,0	120	54	36	9	9	66						3		
1.1.11	Entrepreneurship and enterprise economics		7			3,0	90	45	30		15	45							3	
1.1.12	Probability theory, probabilistic processes and mathematical statistics	3				4,0	120	45	30		15	75			3					
1.1.13	Ukrainian language (for professional purposes)	2				3,0	90	27			27	63		1,5						
	Physics					11,5	345	165	99	33	33	180								
	Physics	2				6,0	180	90	54	18	18	90		5						
	Physics (section of biophysics)	3				5,5	165	75	45	15	15	90			5					
1.1.15	Philosophy* (4b)	4				4,0	120	45	27		18	75				2,5				
	Total p.1.1.:					74	2220	1035	497	153	385	1185	26.0	21,0	8,0	2,5	0,0	3,0	3,0	0,0 0,0
	T			1.2	Discipl		ofessional tr						,,-		- , -	_,-	- , , -	- , ,	-) -	3,0
1.2.1	Electronics and computer circuitry		2			3,5	105	72	36	36		33		4						
1.2.2	Numerical methods		3			3,0	90	45	30	15		45		<u> </u>	3					
1.2.3	Theory of algorithms and graphs	3				6	180	90	45	45		90			6					
	Theory of algorithms and graphs (Coursework)		1		4	1	30	18			18	12				1				
1.2.4	Operating systems and system programming	4				5,5	165	108	54	54		57				6				
1.2.5	Computer networks and WEB technologies	4	1			7,0	210	144	72	72		66				8				
1.2.6	Geometric modeling and computer graphics	5	1			3,5	105	60	30	30		45	1				4			
1.2.7	Components of modern computer systems, medical systems		5			3,0	90	45	30	15		45	1				3			
1.2.8	System analysis	5	+ -			4,0	120	60	30	30		60					4			
1.2.9	Organization of databases and knowledge bases	5	 			6,0	180	105	45	60		75					7			
1.2.7	Organization of databases and knowledge of medical purposes				6	1,0	30	18			18	12					<u> </u>	1		
1 2 10	(Coursework)					-	100	00	26	E 1		00	1					7		
	Artificial intelligence systems and data mining		6			6,0	180	90	36	54		90	1				-	/		
1.2.11	Mathematical methods of operations research Methomatical methods of operations research (for medical	6	1			8,0	240	144	72	72		96						8		
	Mathematical methods of operations research (for medical applications) (Coursework)				7	1,0	30	15			15	15							1	

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1.2.12 Technology of software products development	7				5,0	150	120	60	60		30							8	
Technology of software products development (for medical				0	1.0	20	10			10	10								1
purposes) (Coursework)				8	1,0	30	18			18	12								1
1.2.13 Technologies of distributed systems and parallel computing	8				4,0	120	72	36	36		48							4	
1.2.14 Computer-aided design and calculation of structures	7				3,0	90	45	30	15		45							3	
1.2.15 Systems modeling	7				4,5	135	75	45	30		60								5
1.2.16 Design and project management of information systems	8				3,0	90	72	36	36		18								4
1.2.17 Cross-platform programming and information security, protection of medical information	8				3,0	90	72	36	36		18								4
Total p.1.2:					82	2460	1488	723	696	69	972	0	4	9	15	18	16	16	14 0
				1.	3 Practica	l training				_									
1.3.1 Computer practice		2			3,0	90													
1.3.2 Industrial practice		4			4,5	135													j.
1.3.3 Industrial practice		6			4,5	135													
1.3.4 Pre-diploma practice		8			4,5	135													
Total p.1.3:					16,5	495													
				1	l.4 State at	testation													
1.4.1 Bachelor's thesis	8				7,5														
Total pp.1.21.3:					24,0	720						0	0	0	0	0	0	0	0 0
Total for the regulatory disciplines					180	5400	2523	1220	849	454	2157	26	25	17	18	18	19	19	14 0
			2	. SEI	LECTIVE	DISCIPLIN	ES												
			2.	1 Disc	iplines of g	general traiı	ning												
Discipline of the semester #3 - 1		3			4,0	120	45	30		15	75			3					
Discipline of the semester #3 - 2		3			3,0	90	30	20		10	60			2					
Discipline of the semester #4		4			3,0	90	36	18		18	54				2				
Discipline of the semester #5		5			3,0	90	30	20		10	60					2			
Discipline of the semester #6		6			3,0	90	36	18		18	54						2		
Discipline of the semester #7		7			3,0	90	30	20		10	60							2	
Discipline of the semester #8		8			3,0	90	26	13		13	64								2
Total p.2.1:					22,0	660	233	139	0	94	427	0	0	5	2	2	2	2	2 0
2.1.1 Fundamentals of biomedical engineering		3			4,0	120	45	30		15	75			3					
2.1.2 Technical mechanics		3			4,0	120	45	30		15	75			3					
2.1.3 Biomechanics		3			4,0	120	45	30		15	75			3					
2.1.4 Disciplines from other DSEA educational programs		3			4,0	120	45	30		15	75			3					
2.1.5 Human anatomy and physiology	<u> </u>	3			3,0	90	30	20		10	60			2					
2.1.6 Jurisprudence	<u> </u>	3			3,0	90	30	20		10	60			2					
2.1.7 Psychology	<u> </u>	3			3,0	90	30	20		10	60			2					
2.1.8 Disciplines from other DSEA educational programs		3			3,0	90	30	20		10	60			2					
Fundamentals of medical terminology (Foreign language for professional purposes)		4			3,0	90	36	18		18	54				2				
2.1.10 Chemistry	<u> </u>	4			3,0	90	36	18		18	54				2				
2.1.11 Heroic personalities of Ukraine		4			3,0	90	36	18		18	54				2				
2.1.12 Religious studies	 	4			3,0	90	36	18		18	54				2				
2.1.13 Ethics and aesthetics	 	4			3,0	90	36	18		18	54				2				
2.1.14 Disciplines from other DSEA educational programs	 	4			3,0	90	36	18		18	54				2				
2.1.15 Foreign language (for professional purposes)	 	5			3,0	90	30	20		10	60					2			
2.1.16 Ecology	 	5			3,0	90	30	20		10	60					2			
2.1.17 History of science and technology		5			3,0	90	30	20		10	60					2			<u> </u>
2.1.18 Economic and employment law	 	5	-		3,0	90	30	20		10	60	<u> </u>				2			
2.1.19 Technologies of mental self-regulation and interaction		5			3,0	90	30	20		10	60	<u> </u>				2			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
2.1.20	Foundations of economic theory		5			3,0	90	30	20		10	60					2				
2.1.21	Disciplines from other DSEA educational programs		5			3,0	90	30	20		10	60					2.				
2.1.22	Biomedical ethics		6			3,0	90	36	18		18	54						2			
2.1.23	Sociology		6			3,0	90	36	18		18	54						2			
2.1.24	Information wars		6			3,0	90	36	18		18	54						2			
2.1.25	Business rhetoric		6			3,0	90	36	18		18	54						2			
2.1.26	Disciplines from other DSEA educational programs		6			3,0	90	36	18		18	54						2			
2.1.27	Foreign language (for professional purposes)		7			3,0	90	30	15		15	60							2		
	Politology		7			3,0	90	30	15		15	60							2		
2.1.28			7				90	30	-			60							2		
2.1.29	Disciplines from other DSEA educational programs		0			3,0			15		15								2	2	
2.1.30	Foreign language (for professional purposes)		8			3,0	90	30	18		18	60									
2.1.31	Professional ethics		8			3,0	90	30	18		18	60								2	
2.1.32	Disciplines from other DSEA educational programs		8			3,0	90	30	18		18	60								2	
D: : 1:		<u> </u>		2.2 I	Discip!		ofessional tr	. 	1 20	20	<u> </u>			ī	, 1				I I		
	e of the semester #3		3			4,5	135	60	30	30		75			4						
	e of the semester #4		5			5,0	150	72	36	36		78				4					
Disciplin	e of the semester #5		6			7,0	210	60	30	30		150					4				
Disciplin	e of the semester #6		7			7,0	210	90	36	54		120						5			
Disciplin	e of the semester #7		7			7,0	210	75	45	30		135							5		
Disciplin	e of the semester #8		8			7,5	225	144	72	72		81								8	
	Total p.2.2:					38,0	1140,0	501,0	249,0	252,0	0,0	639,0	0,0	0,0	4,0	4,0	4,0	5,0	5,0	8,0	0,0
														•							
2.2.1	Principles of interface construction for mobile systems		3			4,5	135	60	30	30		75			4						
2.2.2	Object-oriented applications for mobile systems		3			4,5	135	60	30	30		75			4						
2.2.3	Digital processing of biomedical signals		3			4,5	135	60	30	30		75			4						
2.2.4	Disciplines from other DSEA educational programs		3			4,5	135	60	30	30		75			4						
2.2.5	Probabilistic processes and mathematical statistics in automated		1			5.0	150	72	36	36		78				4					
2.2.3	systems		4			5,0	150	12	30	30		78				4					
2.2.6	Automated research systems		4			5,0	150	72	36	36		78				4					
2.2.7	Methods of mathematical processing of medical biological data		4			5,0	150	72	36	36		78				4					
2.2.8	Disciplines from other DSEA educational programs		1				1 - 0		36	36		78									
2.2.9	Disciplines from other DSD/1 educational programs		4			5,0	150	72	30	50		70				4					
∠.∠.9	WEB-design and programming		5			5,0 7,0	150 210	72 60	30	30		150				4	4				
2.2.9			5 5							_						4	4				
	WEB-design and programming		5 5 5			7,0	210	60	30	30		150				4	4 4 4				
2.2.10	WEB-design and programming Development of web-oriented application systems		5 5 5 5			7,0 7,0	210 210	60 60	30 30	30 30		150 150				4	4 4 4 4				
2.2.10 2.2.11	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems		5 5 5 5 6			7,0 7,0 7,0	210 210 210	60 60 60	30 30 30	30 30 30		150 150 150				4	4 4 4 4	5			
2.2.10 2.2.11 2.2.12	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs		5 5 5			7,0 7,0 7,0 7,0 7,0	210 210 210 210	60 60 60	30 30 30 30	30 30 30 30		150 150 150 150				4	4 4 4 4	5 5			
2.2.10 2.2.11 2.2.12 2.2.13	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies		5 5 5 6			7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210	60 60 60 60 90	30 30 30 30 30 36	30 30 30 30 30 54		150 150 150 150 150				4	4 4 4				
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems		5 5 5 6 6			7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210	60 60 60 60 90 90	30 30 30 30 30 36 36	30 30 30 30 30 54 54		150 150 150 150 150 120				4	4 4 4 4	5			
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products		5 5 5 6 6			7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210	60 60 60 60 90 90	30 30 30 30 36 36 36	30 30 30 30 54 54 54		150 150 150 150 120 120 120				4	4 4 4 4	5 5	5		
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15 2.2.16	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products Disciplines from other DSEA educational programs Basics of the scientific research Fundamentals of engineering creativity		5 5 5 6 6 6			7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210 210	60 60 60 60 90 90 90	30 30 30 30 36 36 36 36	30 30 30 30 54 54 54 54		150 150 150 150 120 120 120 120 135 135				4	4 4 4	5 5	5 5		
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15 2.2.16 2.2.17	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products Disciplines from other DSEA educational programs Basics of the scientific research		5 5 6 6 6 6 7			7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210 210 210	60 60 60 90 90 90 90 75	30 30 30 30 36 36 36 36 45	30 30 30 30 54 54 54 54 30		150 150 150 150 120 120 120 120 135				4	4 4 4	5 5	5 5 5 5		
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15 2.2.16 2.2.17 2.2.18	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products Disciplines from other DSEA educational programs Basics of the scientific research Fundamentals of engineering creativity		5 5 6 6 6 7 7			7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210 210 210 210	60 60 60 60 90 90 90 90 75 75	30 30 30 30 36 36 36 36 45 45	30 30 30 30 54 54 54 54 30 30		150 150 150 150 120 120 120 120 135 135				4	4 4 4	5 5	5 5 5 5		
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15 2.2.16 2.2.17 2.2.18 2.2.19	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products Disciplines from other DSEA educational programs Basics of the scientific research Fundamentals of engineering creativity IT in medicine		5 5 6 6 6 7 7 7			7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210 210	60 60 60 60 90 90 90 90 75 75 75	30 30 30 30 36 36 36 36 45 45 45	30 30 30 30 54 54 54 54 30 30		150 150 150 150 120 120 120 120 135 135				4	4 4 4 4	5 5	5 5 5 5	8	
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15 2.2.16 2.2.17 2.2.18 2.2.19 2.2.20	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products Disciplines from other DSEA educational programs Basics of the scientific research Fundamentals of engineering creativity IT in medicine Disciplines from other DSEA educational programs		5 5 6 6 6 7 7 7			7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210 210	60 60 60 60 90 90 90 90 75 75 75 75	30 30 30 30 36 36 36 36 45 45 45	30 30 30 30 54 54 54 54 30 30 30		150 150 150 150 120 120 120 120 135 135 135				4	4 4 4 4	5 5	5 5 5 5	8 8	
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15 2.2.16 2.2.17 2.2.18 2.2.19 2.2.20 2.2.21	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products Disciplines from other DSEA educational programs Basics of the scientific research Fundamentals of engineering creativity IT in medicine Disciplines from other DSEA educational programs Hardware Internet of Things		5 5 6 6 6 7 7 7 7 8			7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210 210	60 60 60 60 90 90 90 90 75 75 75 75 144	30 30 30 30 36 36 36 36 45 45 45 45	30 30 30 30 54 54 54 54 30 30 30 30 72		150 150 150 150 120 120 120 120 135 135 135 135				4	4 4 4 4	5 5	5 5 5 5		
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15 2.2.16 2.2.17 2.2.18 2.2.19 2.2.20 2.2.21 2.2.22	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products Disciplines from other DSEA educational programs Basics of the scientific research Fundamentals of engineering creativity IT in medicine Disciplines from other DSEA educational programs Hardware Internet of Things Internet of Things Technologies		5 5 6 6 6 7 7 7 7 8 8			7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210 210	60 60 60 60 90 90 90 90 75 75 75 75 144 144	30 30 30 30 36 36 36 36 45 45 45 45 72 72	30 30 30 30 54 54 54 54 30 30 30 30 72 72		150 150 150 150 120 120 120 120 135 135 135 135 81 81				4	4 4 4	5 5	5 5 5 5	8	
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15 2.2.16 2.2.17 2.2.18 2.2.19 2.2.20 2.2.21 2.2.22 2.2.23	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products Disciplines from other DSEA educational programs Basics of the scientific research Fundamentals of engineering creativity IT in medicine Disciplines from other DSEA educational programs Hardware Internet of Things Internet of Things Technologies Technologies for receiving and transmitting medical data		5 5 6 6 6 7 7 7 7 8 8 8			7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210 210	60 60 60 90 90 90 90 75 75 75 75 144 144 144	30 30 30 30 36 36 36 36 45 45 45 45 72 72 72	30 30 30 30 54 54 54 54 30 30 30 30 72 72 72	94	150 150 150 150 120 120 120 135 135 135 135 81 81	0	0	9	6	4 4 4 4 6	5 5	5 5 5 5 7	8	0
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15 2.2.16 2.2.17 2.2.18 2.2.19 2.2.20 2.2.21 2.2.22 2.2.23	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products Disciplines from other DSEA educational programs Basics of the scientific research Fundamentals of engineering creativity IT in medicine Disciplines from other DSEA educational programs Hardware Internet of Things Internet of Things Technologies Technologies for receiving and transmitting medical data Disciplines from other DSEA educational programs		5 5 6 6 6 7 7 7 7 8 8 8			7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210 210 210 210	60 60 60 60 90 90 90 90 75 75 75 75 144 144 144	30 30 30 30 36 36 36 36 45 45 45 45 72 72 72 72	30 30 30 30 30 54 54 54 54 30 30 30 30 72 72 72 72	94	150 150 150 150 120 120 120 135 135 135 135 81 81 81	0	0	9	6	4 4 4 4 6	5 5 5		8 8 8	0
2.2.10 2.2.11 2.2.12 2.2.13 2.2.14 2.2.15 2.2.16 2.2.17 2.2.18 2.2.19 2.2.20 2.2.21 2.2.22 2.2.23	WEB-design and programming Development of web-oriented application systems WEB-oriented medical systems Disciplines from other DSEA educational programs Computer-aided design technologies Components of robotic systems Designing and manufacturing of medical products Disciplines from other DSEA educational programs Basics of the scientific research Fundamentals of engineering creativity IT in medicine Disciplines from other DSEA educational programs Hardware Internet of Things Internet of Things Technologies Technologies for receiving and transmitting medical data Disciplines from other DSEA educational programs		5 5 6 6 6 7 7 7 7 8 8 8			7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0	210 210 210 210 210 210 210 210 210 210	60 60 60 60 90 90 90 90 75 75 75 75 144 144 144	30 30 30 30 36 36 36 36 45 45 45 45 72 72 72 72	30 30 30 30 30 54 54 54 54 30 30 30 30 72 72 72 72	94	150 150 150 150 120 120 120 135 135 135 135 81 81 81	0	0	9	6	4 4 4 4 6	5 5 5		8 8 8	0

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								Cour	rse			1 co	urse	2 cou	ırse	3 coi	urse	4	course)
							Numbe	er of hou	ire ner u	veek		26	25	26	24	24	26	26	24	Λ

Course	1 co	urse	2 co	urse	3 cc	ourse	4	e	
Number of hours per week	26	25	26	24	24	26	26	24	0
Number of exams	4	4	3	3	3	3	3	3	
Number of tests	3	4	4	3	3	3	3	3	
Number of course projects and courseworks				1		1	1	1	D
No. of semester	1	2	3	4	5	6	7	8	
	60	,0	60	,0	60),0		60,0	

1	Physical education			13,5	405	264	4		260	141								
1.1	Physical education		1, 2b d*	6,5	195	132	4		128	63	4	4	4					
1.2	Physical education		3, 4b d*	7,0	210	132			132	78				4	4	4		
1.3	Physical education		5f*, 6f*, 7f*				section se	essions									S	s s
	* Note: S - sectional classes; f - optional																	
2	Ukrainian as a foreign language (for foreign citizens and stateless persons)			13,5	540	294			294	246								
2.1	Ukrainian as a foreign language	2	1	6,0	180	99			99	81	3	3	3					
2.2	Ukrainian as a foreign language	4	3	6,0	180	99			99	81				3	3	3		
2.3	Ukrainian as a foreign language	6	5	4,0	120	66			66	54						_	2	2 2
2.4	Ukrainian as a foreign language	7		2,0	60	30			30	30								

Guarantor of the educational program	P. Sahaida
Head of CIT dept.	O. Tarasov
FAMIT's Dean	S. Podlesnij