Эе)istrib	ution	by sem	este	rs			Νι	umber	of hou	rs		С	lassroc	om hou	ırs per	week b	oy sem	esters	
amm				СО	urse		Φ	Ø		cl	assroc	m hou	rs		I cou	ırse	II co	urse	III co	urse	IV co	ourse
ogra	NAME OF THE COURSE	LSU SI				per	Ę	edit	nic			ncludin		, Vork				seme	sters			
educational programme code		examinations	ts	ts (ဟ	final test paper	final paper of the course	ECTS credits	total academic hours			1	Ť	students` individual work	1	2	3	4	5	6	7	8
tion		l ë	tests	projects	papers	tes	oap	CT	acade hours	total	lectures	practical classes	laboratory classes	ude					s per se			
Inca		exa		bid	pe	nal	lal l	Ш	otal	ت ا) Sctr	raci	bora	st div	15	17	15	17				12
Θ						Į.	ij		Ţ			ا م	<u>a</u>	.⊑	15	17	15	17	15	17	15	12
							1.	Compulso	ry part													
CC 1	Foreign language for professional purposes	2	1					7,0	210	96		96		114	3	3						
CC 2	Ukrainian historical and humanitarian studies		1					3,0	90	45	15	30		45	3							
CC 3	Theory and practice of law enforcement		2					3,0	90	51	17	34		39		3						
CC 4	Philosophy	4						4,0	120	51	17	34		69			3					
CC 5	Life safety and basics of labor protection		6d					4,0	120	51	17	34		69						3		
CC 6	Higher mathematics	2	1d					9,0	270	113	49	64		157	3	4						
CC 7	Physics		1d					4,0	120	45	15	15	15	75	3							
CC 8	Electronic document management systems	1					1	5,0	150	45	15	30		105	3							
CC 9	Programming	2	1d				1	9,0	270	128	64	64		142	4	4						
CC 10	Computer graphics	1					1	5,0	150	45	15	30		105	3							
CC 11	Theory of algorithms		2d				2	5,0	150	51	17	34		99		3						
CC 12	Web design	2					2	6,0	180	68	34	34		112		4						
CC 13	Electrical engineering and electronics		3d					4,0	120	60	30	15	15	60			4					
CC 14	Probability theory, probability processes and mathematical statistics	3					3	5,0	150	60	30	30		90			4					
CC 15	Optimization methods and models	3					3	5,0	150	60	15	45		90			4					
CC 16	Computer systems architecture	3					3	5,0	150	60	15	30	15	90			4					
CC 17	Object-oriented programming	3						5,0	150	60	30	30		90			4					
CC 18	Course work "Object-oriented programming"				3			2,0	60					60								
CC 19	Applied problems of discrete analysis	4					4	5,0	150	51	17	34		99				3				
CC 20	Business planning in project activities	4						5,0	150	68	34	34		82				4				
CC 21	Organization of databases and knowledge bases		4d					5,0	150	68	34	34		82				4	_			
CC 22	Course work "Organization of databases and knowledge bases"				4			2,0	60					60								
CC 23	Operations Research	4					4	5,0	150	68	34	34		82				4				

це			istrib	ution	by sem	neste	rs			Nι	ımber	of hou	rs		С	lassroc	om hou	ırs per	week b	by sem	esters	;
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rogr	NAME OF THE COURSE	Suc				ber	of th	redi	mic		i	ncludir	ng	s` vor				seme	sters			
ial pro code		examinations	tests	ş	ည	t pa	paper c course	ECTS credits	acade hours	l _	"		٠. ح	students` lividual w	1	2	3	4	5	6	7	8
atior		l ä	Ĕ	projects	papers	tes	pap	CT.	l ac ho	total	res	tica	atol	tude		num	nber of	weeks	s per se	emeste		
educational programme code		exe		pr	ă	final test paper	final paper of the course	ш ш	total academic hours		lectures	practical classes	laboratory classes	students` individual work	15	17	15	17	15	17	15	12
Φ						L.	Ф					_		-=								
CC 24	Computer aided design technologies	5					5	5,0	150	60	30	30		90					4			
CC 25	IT proect management		5d					4,0	120	45	15	30		75					4			
CC 26	Computer networks		5d					4,0	120	60	30	30		60					3			
CC 27	Numerical Methods		6d					4,0	120	68	34	34		52						4		
CC 28	Methods and means of decision making	6					6	5,0	150	68	34	34		82						4		
CC 29	Design of information systems and software products		6d					4,0	120	68	34	34		52						4		
CC 30	Course work "Design of information systems and software products"				6			2,0	60					60								
CC 31	Information systems security	7						5,0	150	75	30	45		75							5	
CC 32	Course work "Information Systems Security"				7			2,0	60					60								
CC 33	Development of client and server web applications (Front-end / Back-end)	7					7	5,0	150	75	30	45		75					4		5	
CC 34	Automation of management of complex technical systems of municipal economy		7d					4,0	120	60	30	30		60							4	
CC 35	Data mining	8					8	5,0	150	72	36	36		78								6
CC 36	Educational practice		2d					4,0	120					120								
CC 37	Internship		6d					3,0	90					90								
CC 38	Pre-diploma practice		8d					3,0	90					90								
CC 39	Qualification work							9,0	270					270								
	Total for compulsory part 1	19	18		4		14	180	5400	1995	817	1133	45	3405	19	18	23	15	15	15	14	6

2. Optional part

					Block C)1									
OC 1	Business foreign language: written communication	30	d		4,0	120	45		45	75		3			
OC 2	Commercial law	30	i		4,0	120	45	15	30	75		3			
OC 3	The city as a social system	30	i		4,0	120	45	15	30	75		3			
OC 4	Politology	30	i		4,0	120	45	15	30	75		3			
OC 5	Ethics and aesthetics	30	ł		4,0	120	45	15	30	75		3			
OC 6	Language training (for foreign citizens)	30	d		4,0	120	45		45	75		3			

пе		D	istribu	ution	by sem	neste	rs			Nι	ımber	of hour	s		С	lassroc	m hou	rs per	week b	y sem	esters	
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orogi e	NAME OF THE COURSE	ons				ape	of th	redi	mic		ii	ncludin	g	s` wor		,		seme	sters			
educational programme code		examinations	tests	projects	ers	final test paper	final paper of the course	ECTS credits	total academic hours	-	Si	al s	ory s	students` individual work	1	2	3	4	5	6	7	8
catio		ami	te l	roje	papers	عا الد	l pa co	EC.	al a ho	total	lectures	practical classes	laboratory classes	stuc ivid		num	nber of	weeks	per se	meste	rs	
educ		õ		р	_	ξ	fina		tot		oel	pra cla	labc cla	s pui	15	17	15	17	15	17	15	12
OC 7	Foreign language: oral communication		4d					4,0	120	51		51		69				3				
OC 8	Labor Law		4d					4,0	120	51	17	34		69				3				
OC 9	Logic		4d					4,0	120	51	17	34		69				3				
OC 10	Culturology		4d					4,0	120	51	17	34		69				3				
OC 11	Professional rhetoric		4d					4,0	120	51	17	34		69				3				
OC 12	Language training (for foreign citizens)		4d					4,0	120	51		51		69				3				
	Total for block O		2					8,0	240	96	32	64		144			3	3				
			Block	C1 (0	Certifica	ate pr	ogram	- Informat	ion syste	ems of	automa	ted co	ntrol)									
OC C1.1	Cloud technologies and grid computing		5d					4,0	120	45	15	30		75					3			
OC C1.2	Web programming		6d					4,0	120	51	17	34		69						3		
OC C1.3	Information security technologies		7d					4,0	120	45	15	30		75							3	
	Total for block C1		3					12,0	360	141	47	94		219					3	3	3	
				Bloc	k C2 (C	ertifi	cate pro	ogram - St	art Up P	roject N	lanage	ment)				-				<u> </u>		
OC C2.1	Project management of business processes of the Start UP company		5d					4,0	120	45	15	30		75					3			
OC C2.2	Simulation modeling of Start UP projects		6d					4,0	120	51	17	34		69						3		
OC C2.3	Designing business architecture in the Business Studio system		7d					4,0	120	45	15	30		75							3	
	Total for block C2		3					12,0	360	141	47	94		219					3	3	3	
					Block	C3 (0	Certific	ate progra	1		guage)											
OC C3.1	Foreign language (special course)		5d					4,0	120	45		45		75					3			
OC C3.2	Foreign language (special course)		6d					4,0	120	51		51		69						3		
OC C3.3	Foreign language (special course)		7d					4,0	120	45		45		75							3	
	Total for block C3		3					12,0	360	141		141		219					3	3	3	
				Blo	ck C4 (Certi	ficate p	rogram - I	anguag	e trainii	ng for f	oreign	citizen	s)								
OC C4.1	Language training (for foreign citizens)		5d					4,0	120	45		45		75					3			
OC C4.2	Language training (for foreign citizens)		6d					4,0	120	51		51		69						3		
OC C4.3	Language training (for foreign citizens)		7d					4,0	120	45		45		75							3	

пе			Distrib	ution	by sem	neste	rs			Νι	ımber	of hou	rs		С	lassroc	m hou	ırs per	week b	y sem	esters	,
am				СО	urse	١.	<u>e</u>	ts		cl	assroc	m hou	rs	×	I cou	ırse	II co	urse	III co	urse	IV co	ourse
orogr e	NAME OF THE COURSE	suo				aper	of th	redi	mic		i	ncludin	ıg	ts` work				seme	sters			
educational programme code		examinations	tests	projects	ers	final test paper	final paper of the course	ECTS credits	total academic hours	a	Se	ial ss	ory ss	students individual w	1	2	3	4	5	6	7	8
catic		(am	=) Zoje	papers	al te	ed le	EC	al a	total	lectures	practical classes	laboratory classes	studivid		num	ber of	weeks	s per se	emeste	ers	
eqn		(G				fi	fina		ᅙ		<u> </u>	Pre Sis	labo	ind	15	17	15	17	15	17	15	12
	Total for block C4							12,0	360	141				219					3	3	3	
<u> </u>	1					1		Block	21			4.							<u> </u>			
OC P1.1	Spatial data infrastructure	5					5	5,0	150	60	30	30		90					4			
OC P1.2	Dynamic programming languages	5						6,0	180	75	30	45		105					5			
OC P1.3	Course work "Dynamic programming languages"				5			2,0	60					60								
OC P1.4	State and regional government and e-government		6d					4,0	120	68	34	34		52						4		
OC P1.5	Smart home and Internet of Things	7					7	5,0	150	45	15	30		105							3	
OC P1.6	Automated design systems	7					7	5,0	150	45	15	30		105							3	
OC P1.7	Project management		8d					4,0	120	72	36	36		48								6
OC P1.8	Software testing technologies		8д					4,0	120	60	24	36		60								5
OC P1.9	Mobile device programming	8					8	5,0	150	60	24	36		90								5
	Total for block P1	5	3		2		4	40,0	1200	485	208	277		715					9	4	6	16
								Block I	2													
OC P2.1	E-commerce information systems	5					5	5	150	60	30	30		90					4			
OC P2.2	Information support of project management		5д					6	180	75	30	45		105					5			
OC P2.3	Course work "Information support of project management"				5			2	60					60								
OC P2.4	Investment analysis of IT projects	6d						4	120	68	34	34		52						4		
OC P2.5	Economic data processing technologies	7					7	5,0	150	45	15	30		105							3	
OC P2.6	City projects and programs	8	7					8,0	240	105	39	66		165							3	5
OC P2.7	"Economics and Business"		8д				8	5	150	60	24	36		60								5
OC P2.8	Technologies of distributed systems and parallel computing	8d					8	5	150	72	36	36		48								6
	Total for block P2	5	3		2		4	40,0	1200	485	208	277		685					9	4	6	16
	Total for sample part 2	5	8		2		4	60	1800	722	287	435		1078			3	3	12	7	9	16
	Total according to the curriculum	24	26		6		18	240	7200		1104	1568	45	4483	19	18	26	18	27	22	23	22
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		tests tests ojects ojects ojects lest lest lacac lacac hour tical sees tuder lidua					1	2	3	4	5	6	7	8							
educational		exami te te proje proje proje proje proje proje pape co								num	nber of	week	s per se	emeste	ers						
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	Number of hours per week													22	21	23	21	23	22	23	22
	umber of hours per week umber of exams										3	4	3		4			3			
														ა	4		4	4	4	4	
	Number of tests													4	3	3	3	2	3	2	2
	Number of course projects																				
	Number of course papers															1	1	1	1	1	
	Number of final test paper																				
	Number of final paper of the course	per of final paper of the course										3	2	2	2	2	2	3	2		
	Number of ECTS credits	· · · · · · · · · · · · · · · · · · ·											30,0	30,0	30,0	30,0	30,0	30,0	30,0	30,0	