	Forms of interim assessment							Condition Time In the Internal Condition						ar 1	Yea	ear 2 Year 3			Ye	ear 4			
		l	Forms of	interim a	ssessmer	nt		Credits		Total acad	emic hour	S		Semest		Semest				Semest	Assigned department		
Name			Pass/				Calculat		1		I	I	er 1	er 2	er 3	er 4	er 5	er 6	er 7	er 8		T	
Nume	Examin ation	Pass/ fail exam	fail exam with a grade	Term project		Module test	ion and graphic work	Fact	As sheduled	Work with a teacher	Self study	Control	3.e.	з.е.	з.е.	з.е.	3.e.	3.e.	з.е.	3.e.	Code	Name	
Unit 1.Disciplines (modules)								213	7668	4571.3	2366.95	729.75	31	29	27	27	29	25	32	13			
Core part								136	4896	2725.95	1718.3	451.75	31	29	27	27	4	3	11	4			
Basis	2	11112 23	11224					32	1152	710.05	407.2	34.75	15	13	2	2							
History of Russia		1	2					4	144	140.3	3.7		2	2							71	Department of History	
Basics of Russian statehood		1						2	72	59.15	12.85		2								72	Department of Philosophy and cultural studies	
Legal competence and civil position		2						2	72	35.15	36.85			2							73	Department of Social sciences, pedagogy and law	
Philosophy	2							4	144	36.25	73	34.75		4							72	Department of Philosophy and cultural studies	
Basics of self-organization, team building and leadership			1					3	108	70.15	37.85		3								52	Department of Management	
Life safety			1					4	144	70.15	73.85		4								42	Department of Technosphere safety and environmental engineering	
Pe and sport		1						2	72	16.15	55.85		2								56	Department of PE	
Economic culture		2						3	108	70.15	37.85			3							51	Department of Economics and finances	
Foreign language		13	24					8	288	212.6	75.4		2	2	2	2							
Foreign language		13	24					8	288	212.6	75.4		2	2	2	2					45	Department of Foreign languages	
Foreign language: Russian as a foreign language		13	24					8	288	212.6	75.4		2	2	2	2					55	Department of Russian language	
Digital module	2	1	3					9	324	160.55	128.7	34.75	2	4	3								
IT and basics of programming	2	1						6	216	107.4	73.85	34.75	2	4							13	Department of Applied mathematics and Information technologies	
Data analysis and artificial intelligence			3					3	108	53.15	54.85				3						13	Department of Applied mathematics and Information technologies	
Project module		4	3					5	180	75.3	104.7				2	3							
Social project "Service-learning"			3					2	72	40.15	31.85				2						72	Department of Philosophy and cultural studies	
Basics of project activity		4						3	108	35.15	72.85					3					51	Department of Economics and finances	
Natural science and engineering module	11233 44	3	12			11122 3	3	46	1656	802	610.75	243.25	14	10	12	10							
Higher mathematics	12					12		10	360	143.1	147.4	69.5	5	5							13	Department of Applied mathematics and Information technologies	
Physics			1			1		4	144	70.45	73.55		4								25	Department of Physics	
Chemical foundations of biotechnology	13		2			123		15	540	267.55	202.95	69.5	5	5	5						87	Chemico-analytical resourse center	
Engineering computer graphics		3					3	3	108	71.15	36.85				3						32	Department of Technological equipment engineering	
Molecular cell biology	34							8	288	142.5	76	69.5			4	4					87	Chemico-analytical resourse center	
General microbiology	4							6	216	107.25	74	34.75				6					87	Chemico-analytical resourse center	
Module of field subjects		57	6					10	360	282.45	77.55						4	3	3				
Food chemistry		5						4	144	106.15	37.85						4				87	Chemico-analytical resourse center	
Metrology, standardization and technical regulation			6					3	108	106.15	1.85							3			87	Chemico-analytical resourse center	
Quality management in biotechnology		7						3	108	70.15	37.85								3		87	Chemico-analytical resourse center	
Module of field subjects	3478	47		78	4			30	1080	625.3	315.7	139			6	12			8	4			
Research methods in biotechnology	34							12	432	214.5	148	69.5			6	6					87	Chemico-analytical resourse center	
Fundamentals of scientific research		4			4			6	216	109.15	106.85					6					87	Chemico-analytical resourse center	
Equipment for biotechnological production	7			7				5	180	111.25	34	34.75							5		87	Chemico-analytical resourse center	
Fundamentals of biotechnological production design	8	7		8			1	7	252	190.4	26.85	34.75						<u> </u>	3	4	87	Chemico-analytical resourse center	
Self-development module (elective disciplines)		23						4	144	70.3	73.7			2	2					1	<u> </u>	Department of Casial agian	
Psychology of communication (Spring)		2						2	72	35.15	36.85			2						<u> </u>	73	Department of Social sciences, pedagogy and law	
Psychology of communication (Autumn)		3						2	72	35.15	36.85				2					<u> </u>	73	Department of Social sciences, pedagogy and law	
Personal marketing and branding (Spring)		2						2	72	35.15	36.85			2							52	Department of Management	
Personal marketing and branding (Autumn)		3						2	72	35.15	36.85				2						52	Department of Management	

Cultural studies and intercultural communication (Spring)		2					2	72	35.15	36.85		2						72	Department of Philosophy and cultural studies
Cultural studies and intercultural communication (Autumn)		3					2	72	35.15	36.85			2					72	Department of Philosophy and cultural
Human and society (Spring)		2					2	72	35.15	36.85		2						73	Studies Department of Social sciences, pedagogy
Human and society (Autumn)		3					2	72	35.15	36.85			2					73	and law Department of Social sciences, pedagogy and law
Organization of volunteer activities (Spring)		2					2	72	35.15	36.85		2						72	Department of Philosophy and cultural studies
Organization of volunteer activities (Spring)		3					2	72	35.15	36.85			2					72	Department of Philosophy and cultural studies
Basics of critical thinking (Spring)		2					2	72	35.15	36.85		2						72	Department of Philosophy and cultural studies
Basics of critical thinking (Spring)		3					2	72	35.15	36.85			2					72	Department of Philosophy and cultural studies
Environmental culture (Spring)		2					2	72	35.15	36.85		2						44	Department of Water bioresources and aquaculture
Environmental culture (Autumn)		3					2	72	35.15	36.85			2					44	Department of Water bioresources and aquaculture
Skills of effective recruitement (Spring)		2					2	72	35.15	36.85		2						52	Department of Management
Skills of effective recruitement (Autumn)		3					2	72	35.15	36.85			2					52	Department of Management
Personal financial management (Spring)		2					2	72	35.15	36.85		2						51	Department of Economics and finances
Personal financial management (Autumn)		3					2	72	35.15	36.85			2					51	Department of Economics and finances
Basics of modern managent (Spring)		2					2	72	35.15	36.85		2						52	Department of Management
Basics of modern managent (Autumn)		3					2	72	35.15	36.85			2					52	Department of Management
Internet of things (Spring)		2					2	72	35.15	36.85		2						11	Department of Digital systems and automatics
Internet of things (Autumn)		3					2	72	35.15	36.85			2					11	Department of Digital systems and automatics
Starting your own business. Start-up (Spring)		2					2	72	35.15	36.85		2						51	Department of Economics and finances
Starting your own business. Start-up (Autumn)		3					2	72	35.15	36.85			2					51	Department of Economics and finances
Business communication in Russian (Spring)		2					2	72	35.15	36.85		2						55	Department of Russian language
Business communication in Russian (Autumn)		3					2	72	35.15	36.85			2					55	Department of Russian language
Differential equations (Spring)		2					2	72	35.15	36.85		2						13	Department of Applied mathematics and Information technologies
Differential equations (Autumn)		3					2	72	35.15	36.85			2					13	Department of Applied mathematics and Information technologies Department of Applied mathematics and
Numerical methods (Spring)		2					2	72	35.15	36.85		2						13	Information technologies Department of Applied mathematics and
Numerical methods (Autumn)		3					2	72	35.15	36.85			2					13	Information technologies Department of Applied mathematics and
Optimization methods and games theory (Spring)		2					2	72	35.15	36.85		2						13	Information technologies
Optimization methods and games theory (Autumn)		3					2	72	35.15	36.85			2					13	Department of Applied mathematics and Information technologies
Theory of functions of a complex variable (Spring)		2					2	72	35.15	36.85		2						13	Department of Applied mathematics and Information technologies
Theory of functions of a complex variable (Autumn)		3					2	72	35.15	36.85			2					13	Department of Applied mathematics and Information technologies
Applied statistics (Spring)		2					2	72	35.15	36.85		2						13	Department of Applied mathematics and Information technologies
Applied statistics (Autumn)		3					2	72	35.15	36.85			2					13	Department of Applied mathematics and Information technologies
Chemistry basis of modern technologies (Spring)		2					2	72	35.15	36.85		2						35	Department of Chemistry
Chemistry basis of modern technologies (Autumn)		3					2	72	35.15	36.85			2					35	Department of Chemistry
Chemistry of polymers (Spring)		2					2	72	35.15	36.85		2						35	Department of Chemistry
Chemistry of polymers (Spring)		3					2	72	35.15	36.85			2					35	Department of Chemistry
Basics of engineering mechanics (Spring)		2					2	72	35.15	36.85		2						24	Department of Theory of mechanisms and machines and machine parts
Basics of engineering mechanics (Autumn)		3					2	72	35.15	36.85			2					24	Department of Theory of mechanisms and machines and machine parts
Applied nutritiology (Spring)		2					2	72	35.15	36.85		2						31	Department of Food products technology
Applied nutritiology (Autumn)		3					2	72	35.15	36.85			2					31	Department of Food products technology
Part formed by the educational process particip		== : :	ı	1	1	ı	77	2772	1845.35	648.65	278			25	22	21	9		
Vocational module	55566 677	55667 788	8	56			65	2340	1557.35	504.65	278			19	22	15	9		
Fundamentals of virology and immunology	5						4	144	71.25	38	34.75			4				87	Chemico-analytical resourse center

Biosafety of food and dietary supplements	5			5	I			5	180	107.25	38	34.75				5			l	87	Chemico-analytical resourse center
Environmental biotechnology	3	5		3				3	108	70.15	37.85	34./3				3				87	Chemico-analytical resourse center
Fundamentals of patent law and intellectual property	_	3									37.63										•
protection	5							4	144	107.25	2	34.75				4				87	Chemico-analytical resourse center
Technical microbiology	6							5	180	107.25	38	34.75					5			87	Chemico-analytical resourse center
Genetic engineering and bioengineering	6							5	180	107.25	38	34.75					5			87	Chemico-analytical resourse center
Agrobiotechnology		6						4	144	106.15	37.85						4			87	Chemico-analytical resourse center
Technology of enzyme and microbial preparations	6			6				5	180	111.25	34	34.75					5			87	Chemico-analytical resourse center
Animal cell engineering	7							4	144	107.25	2	34.75						4		87	Chemico-analytical resourse center
Fundamentals of enzymology and catalysis	7							4	144	107.25	2	34.75						4		87	Chemico-analytical resourse center
Biochemistry and plant biotechnology		7						4	144	106.15	37.85							4		87	Chemico-analytical resourse center
Introduction to bioinformatics		7	8					6	216	149.3	66.7							3	3	87	Chemico-analytical resourse center
Fundamentals of pharmaceutical biotechnology		8						3	108	106.15	1.85								3	87	Chemico-analytical resourse center
Elective courses (modules) 1		5						3	108	70.15	37.85					3					
Nanobiotechnology		5						3	108	70.15	37.85					3				87	Chemico-analytical resourse center
Cryobiology		5						3	108	70.15	37.85					3				87	Chemico-analytical resourse center
Basics of molecular nutrition		5						3	108	70.15	37.85					3				87	Chemico-analytical resourse center
Elective courses (modules) 2		6						3	108	70.15	37.85						3				
Nanobiotechnology		6						3	108	70.15	37.85						3			87	Chemico-analytical resourse center
Cryobiology		6						3	108	70.15	37.85						3			87	Chemico-analytical resourse center
Basics of molecular nutrition		6						3	108	70.15	37.85						3			87	Chemico-analytical resourse center
Elective courses (modules) 3		8						3	108	53.15	54.85								3		
Evolutionary biotechnology		8						3	108	53.15	54.85								3	87	Chemico-analytical resourse center
Introduction to Data Science		8						3	108	53.15	54.85								3	87	Chemico-analytical resourse center
Methods of structural biology		8						3	108	53.15	54.85								3	87	Chemico-analytical resourse center
Project module			57					12	432	288	144					6		6			<u> </u>
Project workshop 1			5					6	216	144	72					6					1
Research track			5					6	216	144	72					6				86	Project center
Digital instruments			5					6	216	144	72					6				86	Project center
Technological track			5					6	216	144	72					6				86	Project center
Engineering track			5					6	216	144	72					6				86	Project center
Service track			5					6	216	144	72					6				86	Project center
Project workshop 2			7					6	216	144	72							6			Toject carter
Research track			7					6	216	144	72							6		86	Project center
Digital instruments			7					6	216	144	72							6		86	Project center
Technological track			7					6	216	144	72							6		86	Project center
Engineering track			7					6	216	144	72							6		86	Project center
Service track			7					6	216	144	72							6		86	Project center
Graduation thesis as a start-up			78					6	216	144	72							3	3	86	Project center
Unit 2.Practical training			70					21	756	756	72				6		6	3	9	00	Project center
Core part								21	756	756					6		6		9		
Academic training			1 4							216							0		9		
9			4			<u> </u>	 	6	216 216	216					6					07	Chemico-analytical recourse contex
Introductory practice Production practice			68					6 15	540	540					0		6		9	87	Chemico-analytical resourse center
																			9		
Project module			6					6	216	216							6			07	Chamina analytical recovery
Technological practice			6			<u> </u>		6	216	216							6			87	Chemico-analytical resource center
Pre-graduation practice			8			<u> </u>		9	324 216	324									9	87	Chemico-analytical resourse center
Unit 3. State final examination Preparation for the defense procedure and defense of the												216							6		
Preparation for the defense procedure and defense of the final qualification work								6	216			216							6	87	Chemico-analytical resourse center
Elective courses								6	216	105.45	110.55		4	2							
Elementary mathematics		2						2	72	35.15	36.85		2							13	Department of Applied mathematics and Information technologies
The historical role of Russia in the system of international relations		2						2	72	35.15	36.85		2							71	Department of History
			i		1			L													

The Great Patriotic War: no statute of limitations		3						2	72	35.15	36.85		2			71	Department of History
Complex modules											102						
Module "Basics of military training"			6						108	78	30						
Module "Basics of military training"			6						108	78	30						
Basics of military training (Autumn)			5						108	78	30						
Basics of military training (Spring)			6						108	78	30						
Module "Physical education and sport"		24							328	256	72						
Practical training in PE and sport (elective course)		24							328	256	72					56	Department of PE