Name	Froms of interim assesment							Credits	Total academic hours			Year 1		Year 2		Year 3		Year 4		Year 5		Year 6		Assigned department	
	Examination	Pass/ fail exam	Pass/ fail exam with a mark	Term project	Course work	Module test	Calculation and graphic work	Fact	As shedulled	Work with a teacher	Self study	Control	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	Semester 9	Semester 10	Semester 11	Semester 12	Code	Name
Unit 1.Disciplines (modules)								294	10584	5649.8	3822.2	1112	Credits	Credits	Credits	Credits	Credits	Credits	Credits	Credits	Credits	Credits	Credits	Credits		
Core part								252	9072	4827.8 5	3201.6 5	1042.5	27	33	30	24	30	24	28	26	26	28	18		
Basis	**2**	**11112 23**	**12224**					**32**	**1152**	**704.05**	**413.2**	**34.75**	27	33	30	24	24	24	17	26	19	16	12		
History of Russia		1	2					4	144	140.3	3.7		11	17	2	2									
Basics of Russian statehood		1						2	72	53.15	18.85		2	2										71	Department of History
Legal competence and civil position		2						2	72	35.15	36.85		2											72	Department of Social sciences, pedagogy and law
Philosophy	2							4	144	36.25	73	34.75		2										73	Department of Social sciences, pedagogy and law
Basics of self-organization, team building and leadership			1					3	108	70.15	37.85		2											72	Department of Philosophy and cultural studies
Life safety			2					4	144	70.15	73.85		3											52	Department of Management
PE and sport		1						2	72	16.15	55.85			4										42	Department of Technosphere safety and environmental engineering
Economic culture		2						3	108	70.15	37.85		2											56	Department of PE
Foreign language		**13**	**24**					**8**	**288**	**212.6**	**75.4**			3										51	Department of Economics and finances
Foreign language		13	24					8	288	212.6	75.4		2	2	2	2									
Foreign language: Russian as a foreign language		13	24					8	288	212.6	75.4		2	2	2	2								45	Department of Foreign languages
Digital module	**2**	**1**	**3**					**9**	**324**	**160.55**	**128.7**	**34.75**	2	2	2	2								55	Department of Russian language
IT and basics of programming	2	1						6	216	107.4	73.85	34.75	2	4	3										
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								13	Department of Applied mathematics and information technologies
Basics of project activity		4						3	108	35.15	72.85					3									
Social project "Service-learning"			3					2	72	40.15	31.85				2									52	Department of Management
Natural science and engineering module	**11123 33445 5666**	**245**	**5**	**6**		**11223 3**	**13466**	**81**	**2916**	**1505.9**	**923.6**	**486.5**	14	10	15	11	16	15							72	Department of Philosophy and cultural studies
Higher mathematics	13	2				123		18	648	321.55	256.95	69.5	6	6	6										
Physics	123					123		12	432	214.65	113.1	104.25	4	4	4									13	Department of Applied mathematics and information technologies
Engineering computer graphics	1						1	4	144	72.25	37	34.75	4											25	Department of Physics
Programming in high level languages	3						3	5	180	108.25	37	34.75			5									32	Department of Technological equipment engineering
Electronics and circuitry	4							4	144	71.25	38	34.75				4								12	Department of Applied informatics
Mathematical foundations of computing and programming	4						4	4	144	90.25	19	34.75				4								11	Department of Digital systems and automatics
Database	5							5	180	89.25	56	34.75					5							13	Department of Applied mathematics and information technologies
OS		4						3	108	70.15	37.85					3								12	Department of Applied informatics
Data transmission and network technologies	5							5	180	89.25	56	34.75					5							12	Department of Applied informatics
Computing systems architecture			5					3	108	53.15	54.85						3							14	Department of Information security
Mathematical models in information security	6						6	6	216	107.25	74	34.75						6						11	Department of Digital systems and automatics
Computer attack analysis theory	6	5		6				7	252	128.4	88.85	34.75					3	4						13	Department of Applied mathematics and information technologies
Networks and information transmission systems	6						6	5	180	90.25	55	34.75						5						14	Department of Information security
Module "Methods and means of ensuring information security of automated systems"	**88999 A**	**3578B**	**8**	**99**			**8**	**48**	**1728**	**929.4**	**590.1**	**208.5**				3		3	20	15	4			14	Department of Information security
Information security basics		3						3	108	70.15	37.85					3									
Organizational and legal support for information security		5						3	108	70.15	37.85						3							14	Department of Information security
Protecting information from leakage through technical channels	8							7	252	124.25	93	34.75							7					14	Department of Information security
Methods and means of cryptographic information protection	8	7					8	7	252	142.4	74.85	34.75						3	4					14	Department of Information security
Software and hardware for information protection	9		8	9				8	288	163.4	89.85	34.75							3	5				14	Department of Information security
Development and operation of automated systems in a secure design	9	8		9				8	288	146.4	106.85	34.75							3	5				14	Department of Information security
Information security management	9	8						8	288	141.4	111.85	34.75							3	5				14	Department of Information security
Information security audit	A							4	144	71.25	38	34.75									4			14	Department of Information security
Module "Information security technologies"	**45778 a**	**34666 bb**		**78**	**45A**			**54**	**1944**	**1080.55**	**654.95**	**208.5**			3	8	5	9	14	6	4	5			
Technologies and methods of programming	4	3			4			8	288	180.4	72.85	34.75			3	5								12	Department of Applied informatics
Operating system security	5	4			5			8	288	162.4	90.85	34.75				3	5							14	Department of Information security
Network security	7	6		7				9	324	181.4	107.85	34.75						3	6					14	Department of Information security
Database system security	8	7		8				10	360	181.4	143.85	34.75							4	6				14	Department of Information security
Programming open system components in a secure manner	7	6						7	252	141.4	75.85	34.75						3	4					14	Department of Information security
Investigation of information security incidents		6						3	108	53.15	54.85							3						14	Department of Information security
Programming information security tools	A	9			A			9	324	180.4	108.85	34.75									4	5			
Specialization disciplines	**BB**	**AA**						**19**	**684**	**301.8**	**312.7**	**69.5**										7	12	14	Department of Information security
Information security of open information systems	B	A						10	360	159.4	165.85	34.75										4	6		
Technology for building secure applications for open systems	B	A						9	324	142.4	146.85	34.75										3	6	14	Department of Information security
Self-development module (elective disciplines)		**23**						**4**	**144**	**70.3**	**73.7**			2	2									14	Department of Information security
Psychology of communication (Spring)		2						2	72	35.15	36.85			2											
Psychology of communication (Autumn)		3						2	72	35.15	36.85				2									73	Department of Social sciences, pedagogy and law
Personal marketing and branding (Spring)		2						2	72	35.15	36.85			2										73	Department of Social sciences, pedagogy and law
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										52	Department of Management
Cultural studies and intercultural communication (Autumn)		3						2	72	35.15	36.85				2									72	Department of Philosophy and cultural studies
Human and society (Spring)		2						2	72	35.15	36.85			2										72	Department of Philosophy and cultural studies
Human and society (Autumn)		3						2	72	35.15	36.85				2									73	Department of Social sciences, pedagogy and law
Organization of volunteer activities (Spring)		2						2	72	35.15	36.85			2										73	Department of Social sciences, pedagogy and law
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 recruitment (Spring)		2						2	72	35.15	36.85			2										52	Department of Management
Skills of effective recruitment (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
Numerical methods (Spring)		2						2	72	35.15	36.85			2										13	Department of Applied mathematics and information technologies
Numerical methods (Autumn)		3						2	72	35.15	36.85				2									13	Department of Applied mathematics and information technologies
Optimization methods and games theory (Spring)		2						2	72	35.15	36.85			2										13	Department of Applied mathematics and 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 participants								42	1512	821.95	620.55	69.5					6		11		7	12	6		
Vocational module	**7A**	**9B**	**9**					**24**	**864**	**389.95**	**404.55**	**69.5**							5		7	6	6		
Development of design documentation for information systems			9					4	144	70.15	73.85										4			14	Department of Information security
Theoretical foundations of computer security	7							5	180	89.25	56	34.75							5					14	Department of Information security
Elective modules	**A**	**9B**						**15**	**540**	**230.55**	**274.7**	**34.75**									3	6	6		
Module 1. Information security of government information systems (GIS)	**A**	**9B**						**15**	**540**	**230.55**	**274.7**	**34.75**									3	6	6		
Certification for information security of GIS objects		9						3	108	53.15	54.85										3			14	Department of Information security
Artificial Intelligence in GIS		8						6	216	88.15	127.85											6	14	14	Department of Information security
Information protection in GIS	A							6	216	89.25	92	34.75										6		14	Department of Information security
Module 2. Information security of automated process control systems (ASPCS)	**A**	**9B**						**15**	**540**	**230.55**	**274.7**	**34.75**									3	6	6		
Organizational support for information security of automated process control systems		9						3	108	53.15	54.85										3			14	Department of Information security
Cybersecurity automated process control system		8						6	216	88.15	127.85											6	14	14	Department of Information security
Artificial intelligence in process control systems	A							6	216	89.25	92	34.75										6		14	Department of Information security
Project module			**57A**					**18**	**648**	**432**	**216**						6		6			6			
Project workshop 1			**5**					**6**	**216**	**144**	**72**						6								
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						
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
Project workshop 3			**A**					**6**	**216**	**144**	**72**											6			
Research track			A					6	216	144	72											6		86	Project center
Digital instruments			A					6	216	144	72											6		86	Project center
Technological track			A					6	216	144	72											6		86	Project center
Engineering track			A					6	216	144	72											6		86	Project center
Service track			A					6	216	144	72											6		86	Project center
Graduation thesis as a start-up			AB					6	216	144	72											3	3	86	Project center
Unit 2. Practical training								30	1080	1080							6		6		6	6			
Part formed by the educational process participants								30	1080	1080							6		6		6	6			
Academic training			**4**					**6**	**216**	**216**							6								
Introductory practice			4					6	216	216							6							14	Department of Information security
Production practice			**68AB**					**24**	**864**	**864**									6		6				
Technological practice			6					6	216	216									6					14	Department of Information security
Project module			**8**					**6**	**216**	**216**											6				
Technological practice			8					6	216	216											6			14	Department of Information security
Project-technological practice			A					6	216	216												6		14	Department of Information security
Pre-graduation practice			B					6	216	216													6	14	Department of Information security
Unit 3. State final examination								6	216			216											6		
Preparation for the defense procedure and defense of the final qualification work								6	216			216											6	14	Department of Information security
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
The Great Patriotic War: no statute of limitations		3						2	72	35.15	36.85					2								71	Department of History
Complex modules									436	334	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