

Name	Forms of interim assessment						Credits				Total academic hours				Year 1								Year 2								Year 3								Year 4								Assigned department	
	Exam- ation	Pass/ fail exam with a grade	Term project	Course work	Module test	Calcula- tion and graphic works	Fact	As studen- d	Work with a teacher	Self study	Control	Semest- er 1		Semest- er 2		Semest- er 3		Semest- er 4		Semest- er 5		Semest- er 6		Semest- er 7		Semest- er 8		Code	Name																			
												Credits	Academic hours	Credits	Academic hours	Credits	Academic hours	Credits	Academic hours	Credits	Academic hours	Credits	Academic hours	Credits	Academic hours	Credits	Academic hours			Credits	Academic hours	Credits	Academic hours	Credits	Academic hours													
Unit 1. Disciplines (modules)																																																
Core part																																																
Basics																																																
History of Russia																																																
Basics of Russian statehood																																																
Legal competence and civil position																																																
Philosophy																																																
Basics of self-organization, team building and leadership																																																
Life safety																																																
PE and sport																																																
Economic culture																																																
Foreign language																																																
Foreign language: Russian as a foreign language																																																
Digital module																																																
IT and basics of programming																																																
Data analysis and artificial intelligence																																																
Project module																																																
Basics of project activity																																																
Social project "Service-learning"																																																
Natural science and engineering module																																																
Higher mathematics																																																
Physics																																																
Engineering computer graphics																																																
Programming in high level languages																																																
Electronics and circuitry																																																
Mathematical foundations of computing and programming																																																
Databases																																																
Operation systems																																																
Data transmission and network technologies																																																
Computing systems architecture																																																
Security of computer systems and networks																																																
Self-development module (elective disciplines)																																																
Psychology of communication (Spring)																																																
Psychology of communication (Autumn)																																																
Personal marketing and branding (Spring)																																																
Personal marketing and branding (Autumn)																																																
Cultural studies and intercultural communication (Spring)																																																
Cultural studies and intercultural communication (Autumn)																																																
Human and society (Spring)																																																
Human and society (Autumn)																																																
Organization of volunteer activities (Spring)																																																
Organization of volunteer activities (Autumn)																																																
Basics of critical thinking (Spring)																																																
Basics of critical thinking (Autumn)																																																
Environmental culture (Spring)																																																
Environmental culture (Autumn)																																																
Skills of effective recruitment (Spring)																																																
Skills of effective recruitment (Autumn)																																																
Personal financial management (Spring)																																																
Personal financial management (Autumn)																																																
Basics of modern management (Spring)																																																
Basics of modern management (Autumn)																																																
Internet of things (Spring)																																																
Internet of things (Autumn)																																																
Starting your own business. Start-up (Spring)																																																
Starting your own business. Start-up (Autumn)																																																
Business communication in Russian (Spring)																																																
Business communication in Russian (Autumn)																																																
Differential equations (Spring)																																																
Differential equations (Autumn)																																																
Numerical methods (Spring)																																																
Numerical methods (Autumn)																																																
Optimization methods and games theory (Spring)																																																
Optimization methods and games theory (Autumn)																																																
Theory of functions of a complex variable (Spring)																																																
Theory of functions of a complex variable (Autumn)																																																
Applied statistics (Spring)																																																
Applied statistics (Autumn)																																																
Chemistry basis of modern technologies (Spring)																																																
Chemistry basis of modern technologies (Autumn)																																																
Chemistry of polymers (Spring)																																																
Chemistry of polymers (Autumn)																																																
Basics of engineering mechanics (Spring)																																																
Basics of engineering mechanics (Autumn)																																																
Applied nutritionology (Spring)																																																
Applied nutritionology (Autumn)																																																
Part formed by the educational process participants																																																
Vocational module																																																
Algorithms and data structures																																																
IT project resource management																																																
Software engineering																																																
System analysis and management																																																
Object-oriented design and programming technology																																																
Standardization and software quality management																																																
Software design and development tools, continuous integration and software development																																																
Machine learning algorithms																																																
Software testing and analysis																																																
Elective modules																																																
Module 1. Web-design																																																
Web application architecture and cloud technologies																																																
Development of the client side of Web applications (frontend)																																																
Development of the server part of Web applications (backend)																																																
Module 2: High Performance Systems																																																
Administration and reliability assessment of highly loaded systems																																																
Massively parallel computing (GPU)																																																
Advanced computing technologies																																																
Project module																																																
Project workshop 1																																																
Research track																																																
Digital Instruments																																																
Technological track																																																
Engineering track																																																
Service track																																																
Project workshop 2																																																
Research track																																																
Digital Instruments																																																
Technological track																																																
Engineering track																																																
Service track																																																
Graduation thesis as a startup																																																
Unit 2. Practical training																																																
Core part																																																
Academic training																																																
Technological practice																																																
Production practice																																																
Project module																																																
Technological practice																																																
Technological practice																																																
Unit 3. State final examination																																																
Preparation for the defense procedure and defense of the final qualification work																																																
Elective courses																																																
Elementary mathematics																																																
The historical role of Russia in the system of international relations																																																
The Great Patriotic War: no statute of limitations																																																
Complex modules																																																
Module "Basics of military training"																																																
Module "Basics of military training"																																																
Basics of military training (Autumn)																																																
Basics of military training (Spring)																																																
Module "Physical education and sport"																																																
Practical training in PE and sport (elective course)																																																