

ALIGNMENT OF COMPETENCES WITH DISCIPLINES			
Code	Section names of educational programmes, modules, disciplines, practice	Semester	Credits
	Section 1. Disciplines (modules)		
B.1.1	Basic part		
B.1.1.1	Business Communication and Elocution	1	3
B.1.1.2	Sociology	1	3
B.1.1.3	Physical Education and Sports	1	2
B.1.1.4	Chemistry	1	3
B.1.1.5	Economic Theory	1	3
B.1.1.6	Information Technologies	1, 2	6
B.1.1.7	Descriptive Geometry and Engineering Graphics	1, 2	6
B.1.1.8	Foreign Language	1, 2, 3	7
B.1.1.9	Mathematics	1, 2, 3	16
B.1.1.10	History (History of Russia, General History)	2	3
B.1.1.11	Laws	2	3
B.1.1.12	Physics	2, 3	9
B.1.1.13	Health and Safety Training Course	3	3
B.1.1.14	Program Fundamentals	3	3
B.1.1.15	Information Network Architecture	4	5
B.1.1.16	Databases	4	4
B.1.1.17	Philosophy	4	4
B.1.1.18	Ecology and Concepts of Sustainable Growth	4	3
B.1.1.19	System Modeling	5	4
B.1.1.20	Mobile Programming	5	4
B.1.1.21	Computer-Aided Teaching and Data Mining	6, 7	7
B.1.1.22	Methods and Tools for Data Systems Engineering	7, 8	7
B.1.2	Part formed by the participants of the educational programme		
B.1.2.1	Introduction to Engineering	1, 2	6
B.1.2.2	Fundamentals of Signals and Systems	3	4
B.1.2.3	Theory and Techniques of Information Transmission	3	5
B.1.2.4	Decision Making and Optimization Techniques	4	6
B.1.2.5	Programming Techniques and Web Application Development	4, 5	8
B.1.2.6	Computer Graphics and 3D Display	5	5
B.1.2.7	Computer Systems Protocols and Interfaces	5	6
B.1.2.8	IT Security and Data Protection	6	7
B.1.2.9	Design Technologies of Electronic Means	6	4
B.1.2.10	Artificial Intelligence in Image Processing and Recognition	6, 7	10
B.1.2.11	Software-Defined Info-Communication Systems	6, 7	8
B.1.2.12	Neural Networks	7	3
B.1.2.13	Basics of Technopreneurship	7	3
B.1.2.14	AI-based Satellite Ground Communication System Design	7, 8	9
B.1.2.15	Information Technology & Internet of Things (IoT)	8	4
B.1.2	Enrichment classes		
B.1.2.1	Elective courses in Physical Education and Sports: Overall Physical Condition / Classes in Specialized Sports Club / Special Classes for People with Health Limitations	2, 3, 4, 5, 6	0
B.1.2.2	Enterprise Information Systems / Administration of Information Systems	5	5
B.1.2.3	Smart Sensors and Data Loggers in Technological Systems / First Information Transducers in Technological Systems	6	3
	Section 2. Practice		
B.2.1	Basic part		
B.2.1.1	Introductory Practical Training	2	3
B.2.1.2	Research Internship	8	12
B.2.2	Part formed by the participants of the educational programme		
B.2.2.1	Technological (Project Technological) Practical Training	4	3
B.2.2.2	Technological (Project Technological) Practical Training (Distributed)	4	3
	Research Work	6	6
	Section 3. State Final Examination		
B.3.1	Basic part		
B.3.1.1	Preparation and Presentation of Graduate Qualification Work (Bachelor's Thesis)	8	9