Bachelor Program: Software engineering

Study Program: Software Projects Management

Duration: 2 years of study

Language of Training: Russian

№	Subject	Semester	Hours	Credits
B.1.1	**Basic part**			
B.1.1.1	History	1	108	3
B.1.1.2	Philosophy	4	108	3
B.1.1.3	Foreign Language	1-3	288	8
B.1.1.4	Psychology	1	108	3
B.1.1.5	Economics	2	108	3
B.1.1.6	Mathematics	1-4	576	16
B.1.1.7	Physics	2-4	360	10
B.1.1.8	Programming	1-4	576	16
B.1.1.9	Computers and Peripherals	1	144	4
B.1.1.10	Operating Systems	2	108	3
B.1.1.11	Database	5	324	9
B.1.1.12	Networks and Telecommunications	3	108	3
B.1.1.13	Computer Science	1-2	252	7
B.1.1.14	Electrical Engineering and Electronics	6	180	5
B.1.1.15	Ecology	4	72	2
B.1.1.16	Life Safety	5	108	3
B.1.1.17	3hysical Culture and Sports	1	72	2
B.1.2	**Variable part**			
B.1.2.1	Russian Language and Culture of Speech	2	72	2
B.1.2.2	History of Science and Technology	2	72	2
B.1.2.3	Jurisprudence	6	108	3
B.1.2.4	Business Communication in a Foreign Language	4	72	2
B.1.2.5	Professionally-Oriented Communication in a Foreign Language	5	72	2
B.1.2.6	Engineering and Computer Graphics	3-4	288	8
B.1.2.7	Object Oriented Pprogramming	7	108	3
B.1.2.8	Metrology, Standardization and c Certification	8	72	2
B.1.2.9	Enterprise Economics	6	72	2
B.1.2.10	Circuit Engineering and Microprocessor Technology	3-4	288	8
B.1.2.11	Information Protection	6-7	180	5

№	Subject	Semester	Hours	Credits
B.1.2.12	Computational Mathematics	5	144	4
B.1.2.13	Decision Theory	5	108	3
B.1.2.14	Data Processing Structures and Algorithms	3	216	6
B.1.2.15	Internet Technologies	5	144	4
B.1.2.16	Theory of Computational Processes	6	108	3
B.1.2.17	Software Testing	6	144	4
B.1.2.18	Functional and Logical Programming	6	180	5
B.1.2.19	Theory of Programming Languages and Translation Methods	7	108	3
B.1.2.20	Management Theory in Information Systems	7	252	7
B.1.2.21	Project Cost-Effectiveness	8	72	2
B.1.3	**Elective courses**			
B.1.3.1.1	Human Machine Interface Design	5	144	4
B.1.3.1.2	Software interface design	5	144	4
B.1.3.2.1	Optimization Methods	6	144	4
B.1.3.2.2	Mathematical programming	6	144	4
B.1.3.3.1	Modeling and Analysis of Business Processes	7	180	5
B.1.3.3.2	Business Process Simulation	7	180	5
B.1.3.4.1	Software Projects Management	7	108	3
B.1.3.4.2	E-business	7	108	3
B.1.3.5.1	Mobile Application Development	8	108	3
B.1.3.5.2	Engineering Design and Computational Modeling Environments	8	108	3
B.1.3.6.1	.NET Programming	8	108	3
B.1.3.6.2	Java programming	8	108	3
B.1.3.7.1	Development and Analysis of Requirements	8	108	3
B.1.3.7.2	Numerical Methods and Algorithms for Time Series Analysis	8	108	3
B.1.3.8.1	Modelling of Physical Systems	7	180	5
B.1.3.8.2	Modelling of Information Processes	7	180	5
B.1.3.9.1	Team sports	2-6	328	0
B.1.3.9.2	Recreational Physical Culture	2-6	328	0

№	Subject	Semester	Hours	Credits
B.2.1	**Practice (Basic part)**		**216**	**6**
B.2.1.1	Educational (study) practice	2	108	3
B.2.1.2	Production (technological) practice	4	108	3
B.2.2	**Practice (variable part)**		**540**	**15**
B.2.2.1	Production (technological) practice	6	216	6
B.2.2.2	Undergraduate practice	8	324	9
V.3	**State final examination (basic part)**		**324**	**9**
F.	**Optional subjects**			
F.2	Computer Methods for Modeling of Fuzzy Information	5	108	
F.3	Computer Network Administration	6	144	
	Total		**8968**	**240**