

Curricular structure of the Master's program in Software Engineering (90 ECTS)

No.	Name of the course	Distribution by semesters			Number of ECTS credits
		Exams	Tests	Individual assignments	
1	2	3	4	5	6
1	Compulsory educational components				67.0
1.1	General training				10.00
GT 1	Foreign language for professional purposes		1-2		4.0
GT 2	Intellectual property		1	Essay	3.0
GT 3	Innovative entrepreneurship and startup project management		3	Essay	3.0
1.2	Special (professional) training				27.00
PT 1	Intelligent systems software		3	Project	4.0
PT 2	Formal methods of software systems research	1			3.0
PT 3	Fundamentals of intelligent systems design	1			3.0
PT 4	Scientific school of the department	1			3.0
PT 5	Project management in software engineering	2			4.0
PT 6	Decision support models and methods	2			4.0
PT 7	Models and technologies for ensuring the security of intelligent systems	1			3.0
PT 8	Introduction to DevOps		2		3.0
1.3	Scientific training				30.00
ST 1	Fundamentals of scientific research		3	Essay	3.0
ST 2	English for academic purposes	3			2.0
ST 3	R&D		2		3.0
ST 4	Practice		1-3		13.0
	Certification				9.0
2	Elective educational components				23.0
2.1	Specialized training				15.00
2.1.1	Specialized package of disciplines 01 "Project Management in Software Engineering"				15.00
ET 1.1	Requirements analysis and management		1		5.0
ET 1.2	Project management		1		5.0
ET 1.3	Innovation and entrepreneurship		2		5.0
2.1.2	Specialized package of disciplines 02 "Cloud Computing"				15.00
ET 2.1	Databases and data warehouses		1		5.0
ET 2.2	Intelligent data analysis and knowledge mining		1		5.0
ET 2.3	Cloud Computing: cloud technologies and applications		2		5.0
2.1.3	Specialized package of disciplines 03 "Artificial intelligence and Machine Learning"				15.00
ET 3.1	Intelligent data analysis and knowledge mining		1		5.0
ET 3.2	Multi-agent systems and technologies		1		5.0
ET 3.3	Neural networks and computational intelligence methods		2		5.0

No.	Name of the course	Distribution by semesters			Number of ECTS credits
		Exams	Tests	Individual assignments	
2.2	Elective courses of specialized training according to the list		3		8.00
	Total number for the training period				90.0