Curricular structure of the Master's program in Computer Science and Intelligent Systems (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**				**39.00**
PT 1	**Business analysis methods for managing requirements for intelligent systems**	1		Project	4.0
PT 2	**Project management of intelligent systems development**	1			3.0
PT 3	**Fundamentals of computational intelligence**	1			3.0
PT 4	**Data mining methods**	1			4.0
PT 5	**Intelligent systems workshop**		3		4.0
PT 6	**Complex systems mathematical models and decision support**	2			4.0
PT 7	**Artificial intelligence models**	3			4.0
PT 8	**Knowledge representation in intelligent systems**	2			3.0
PT 9	**Lifecycle management of intelligent systems**		2		3.0
PT 10	**Databases and knowledge bases**	2			4.0
PT 11	**Intelligent systems software architecture and design**	2			3.0
1.3	**Scientific training**				**18.00**
ST 1	**Fundamentals of scientific research**		3	Essay	3.0
ST 2	**R&D**		2		1.0
ST 3	**Practice**		1-3		5.0
	Certification				9.0
2	**Elective educational components**				**23.0**
2.1	**Specialized training**				**15.00**
2.1.1	**Specialized package of disciplines 01 "Business Intelligence"**				**15.00**
ET 1.1	**BI technologies**		1		5.0
ET 1.2	**Data Mining tools**		1		5.0
ET 1.3	**Data visualization tools**		2		5.0
2.1.2	**Specialized package of disciplines 02 "Computer intelligence"**				**15.00**
ET 2.1	**Evolutionary technologies in artificial intelligence systems**		1		5.0
ET 2.2	**Neural network models development for artificial intelligence tasks**		1		5.0
ET 2.3	**Soft computing models and methods**		2		5.0

No.	Name of the course	Distribution by semesters			Number of ECTS credits
		Exams	Tests	Individual assignments	
2.1.3	**Profiled package of disciplines 03 "Machine Learning"**				**15.00**
ET 3.1	**Machine Learning methods**		1		5.0
ET 3.2	**Reinforcement learning**		1		5.0
ET 3.3	**Machine Learning models and frameworks**		2		5.0
2.2	**Elective courses of specialized training according to the list**		**3**		**8.00**
	Total number for the training period				**90.0**