Master study programme "Computer Systems" 90 ECTS, full time studies, duration - 1 year and 5 montl

Master study programme "Computer System	Name of the	Block	ECTS	Planning		
Study Course	responsible academic staff member			1st year 2nd year		
				Semester 2nd year		-
				1	2	3
Study courses, providing the in-depth understanding			he indust	try's theory	and practi	
Compulsory study courses		A	15	15		
Machine Learning Algorithms	A.Bondarenko	A	6	6		
NoSQL Database Technologies	J.Čaiko	A	6	6		
Latvian for Foreigners/ Business English	S.Plota/ T.Lapaine	A	3	3		
Elective study courses		В	15	15		
Big Data Architectures	J.Čaiko	В	6	10		
Data Warehouses	A.Bondarenko	В	6			
Cloud computing	J.Čaiko	В	3			
Blockchain Technology	V.Gopejenko	В	3			
Introduction to Quantum Computing	J.R.Kalniņš	В	3			
Study courses on research work, innovation work, pro	,		3			
Compulsory study courses		A	9		9	
Computer Experiments and Modelling Technologies	V.Gopejenko	A	6			
Philosophy of Science Development and Approaches to						
Research	O.Pozdņakova	A	3			
Professional specialization study courses		С	12		12	
Information Security Management	t			-		
Computer Security Principles and Technologies	A.Berežnojs	C1	3			
WEB Application Security Fundamentals	A.Berežnojs	C1	3			
Security of Computer Networks	A.Berežnojs	C1	3			
Secure Development and DevSecOps	A.Berežnojs	C1	3			
Data Engineering				_		
Databases and SQL	J.Čaiko	C2	3			
Business Intelligence	V.Gopejenko	C2	3			
Data Engineering	A.Bondarenko	C2	3			
Scalable and Reliable Systems Design	R.Djakons	C2	3			
Machine Learning Engineering						
Data Analysis	V.Gopejenko	С3	3			
Natural Language Processing using Deep Learning	A.Bondarenko	С3	3			
Image Analysis Using Deep Learning	R.Djakons	СЗ	3			
Advanced Topics in Deep Learning	A.Bondarenko	СЗ	3			
Elective study courses (Without Specialization))		_			
Project Quality Management	A.Mrochko	C0	6			
High-level analytics and knowledge technologies	V.Gopejenko	C0	6			
Software Risk Analysis	A.Mrochko	C0	6			
Business Management*	V.Riashchenko	*	9			
Environment, Labour and Civil Protection*	V.Djakona	*	3			
Qualification traineeship	V.Gopejenko	T	9	ĺ		9
Master's thesis		M	30		9	21
Total	:		90	30	30	30

^{*}if this study course has not been mastered at previous levels