## Master study programme "Computer Systems" 90 ECTS, part time intramural/ distance learning studies, duration - 2 years

Study Course	Name of the	Block	ECTS	Planning			
	responsible			1st year 2nd year			
	academic			Semester			
	staff member			1	2	3	4
Study courses, providing the in-depth understanding of	the latest achieveme	nts in the in	dustry's the	ory and p	ractice		
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	9	6		
Big Data Architectures	J.Čaiko	В	6				
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, proje	ect work and manage	ement					
Compulsory study courses		A	9		9		
Computer Experiments and Modelling Technologies	V.Gopejenko	A	6		6		
Philosophy of Science Development and Approaches to	O.Pozdņakova	Α	3		3		
Research  Professional specialization study courses		С	12		6	6	
Information Security Managem	ent	C	12				
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 Engineeri.							
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 Engineeri.	ng						
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	С3	3				
Elective study courses (Without Specialization	on)					•	•
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	Т	9			9	
Master's thesis		M	30			6	24
Tot	al:		90	24	21	21	24

<sup>\*</sup>if this study course has not been mastered at previous levels