Master study programme "Computer Systems" 120 ECTS, full time studies, duration - 2 years

Master study programme "Computer Systo	Name of the					Planning		
Study Course	responsible academic staff member	Block	ECTS	1st year 2nd year				
				Semester				
				0	0	1	2	3
Study courses, providing the in-depth unde	erstanding of th	e latest	achieven	nents in	the indu	istry's the	eory an	d pract
Compulsory study courses			45	30	30	15		
Mathematics for System Analysts	E.Liepa	P	6	6				
Security and Privacy Compliance	A.Berežnojs	P	9	9				
System Approach to Computer System Design	R.Kopitovs	P	6	6				
Programming for Data Science	J.Čaiko	P	9	9				
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		
Professional traineeship	V.Gopejenko	Т	30		30			
Elective study courses		В	15			15		
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	n work, project	t work a	nd mana	gement		· · · ·		
Compulsory study courses	, , ,		9	8			9	
Computer Experiments and Modelling Technologies	V.Gopejenko	A	6					
Philosophy of Science Development and Approaches to Research	O.Pozdņakova	A	3					
Elective study courses	1							
Professional specialization study courses		С	12				12	
Information Security Management								
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						İ		
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	C3	3					
Natural Language Processing using Deep Learning	A.Bondarenko	C3	3					
Image Analysis Using Deep Learning	R.Djakons	С3	3					
Advanced Topics in Deep Learning	A.Bondarenko	C3	3					
Elective study courses C (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			<del>                                     </del>		
Environment, Labour and Civil Protection*	V.Djakona	*	3			<del>                                     </del>		$\vdash$
Qualification traineeship	V.Gopejenko	Т	9			<del>                                     </del>		9
Master's thesis		M	30			<del>                                     </del>	9	21
named a thesis	<u> </u>	Total:	120	3		30	30	30

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