Bachelor study programme "Information Systems" 240 ECTS, part time intramural/ extramural/ distance learning studies, duration - 4 years and 5 months

Study Course	Name of the responsible academic staff member	Block	ECTS	Planning								
				1st year		2nd year		3rd year		4th year		5th year
				Semester								
				1	2	3	4	5	6	7	8	9
Compulsory study courses			***0***	***27***	***27***	***27***	***27***	***27***	***27***	***27***	***24***	***27***
General educational study courses			30	6	9	3	9	3				
Environment, Labour and Civil Protection	Valentīna Djakona, Ph.D.	A	3				3					
Business Communication in English / Latvian for Foreigners	Tatjana Lapaine, Mg.paed./ Sandra Plota, Ph.D.	A	3			3						
Business Management	Victoria Riashchenko, Ph.D.	A	9	6	3							
Basics of Project Management	Ivars Linde, Ph.D.	A	3		3							
Research Methodology	Zaiga Oborenko, Ph.D.	A	3		3							
Applied Statistics	Kristīne Hamruna, Mag.sc.ing.	A	6				6					
Critical Thinking	Jeļena Čaiko, Ph.D.	A	3					3				
Theoretical basic courses in the field of professional activity			54	12	12		6	18		3	3	
Introduction to Programming using Python	Jelena Čaiko, Ph.D.	B	9	9								
Mathematical Foundations for Software Engineering	Evija Liepa, Ph.D.	B	9	3	6							
Algorithms and Data Structures	Jeļena Čaiko, Ph.D.	B	6		6							
Computer Networks Architecture and Operating Systems	Rostislavs Kopitovs, PhD.	B	6				6					
Physics	Kristīne Hamruna, Mag.sc.ing.	B	6					6				
Automata, Computability and Complexity	Jurijs Čižovs, PhD.	B	6					6				
Optimization Theory and Large Systems Synergetics	Irina Gonsalesa-Ortisa, Mag.sc.ing.	B	6					6				
Systems Theory and System Analysis	Juris Roberts Kalniņš, Dr.habil.phys	B	6							3	3	
Professional specialization courses			75	9	6	24	6	6	12	12		
Internet and Web Basics	Jurijs Šamšins, PhD.	B	6	6								
Relational DBMS Foundations	Jurijs Šamšins, PhD.	B	3			3						
API Foundations	Jurijs Čižovs, PhD.	B	3	3								
Development Process and Tooling Foundations	Andrejs Bondarenko, PhD.	B	3			3						
System and Object-Oriented Programming	Alexander Mrochko, PhD.	B	6			6						
Terminal & OS	Dmitrijs Skorodihins, Mag.sc.	B	3			3						
Java Development Fundamentals	Viktors Gopejenko, PhD.	B	3			3						
Advanced Software Development	Andrejs Bondarenko, PhD	B	6						6			
Mathematical Modelling	Viktors Gopejenko, PhD.	B	6					6				
Mathematical and Numerical Methods	Inese Trušiņa Mg.sc.ing.	B	6			6						
Information Security, Protection and Cryptography	Viktors Gopejenko, PhD.	B	6							6		
Computer Modelling and Computer Graphics	Juris Roberts Kalniņš, Dr.habil.phys	B	6							6		
IT Software Project Management	Jurijs Čižovs, PhD.	B	3		3							
Course projects		B	15		3		6		6			
Compulsory Elective Study Courses			***24***							***6***	***18***	
Computer Science Specific Courses			24							6	18	
Advanced Software Architecture	Jurijs Čižovs, PhD.	B1	6							6		
Advanced Development Tooling	Jurijs Čižovs, PhD.	B1	6								6	
Cloud Development and Architecture	Andrejs Bondarenko, PhD.	B1	6								6	
NoSQL DBMS Advanced Topics	Andrejs Bondarenko, PhD.	B1	6								6	
Computer Science Specific Courses			24							6	18	
Data Science Foundations	Juris Roberts Kalniņš, Dr.habil.phys	B2	6							6		
Scientific Visualization in Python	Jurijs Čižovs, PhD.	B2	6								6	
Automation and Data scraping in Python	Jurijs Čižovs, PhD.	B2	6								6	
Machine Learning	Jurijs Čižovs, PhD.	B2	6								6	
Free Elective Study courses (from list or any other study course)			***9***						***6***	***3***		
Big Data Processing	Andrejs Bondarenko, PhD.	C	3									
Java Development for Enterprise (Spring)	Viktors Gopejenko, PhD.	C	3									
Enterprise Development in C#	Andrejs Bondarenko, PhD.	C	6									
DevOPs Course	Dmitrijs Skorodihins, Mag.sc.	C	3									
Applications Monitoring	Andrejs Bondarenko, PhD	C	3									
Android Development	Viktors Gopejenko, PhD.	C	6									
iOS Development	Andrejs Bondarenko, PhD.	C	6									
Java Script Development - Foundations	Viktors Gopejenko, PhD.	C	3									
Java Script Development - React	Viktors Gopejenko, PhD.	C	3									
Java Script Development - Node.js	Viktors Gopejenko, PhD.	C	3									
Java Script Development - Advanced	Viktors Gopejenko, PhD.	C	3									
Robotics	Jeļena Čaiko, Ph.D.	C	3									
Traineeship							6		9	3	3	9
Professional Traineeship 1		P	6				6					
Professional Traineeship 2		P	12						9	3		
Qualification Traineeship		P	12								3	9
Thesis		D	18									18