

Appendix 3.5

Academic Bachelor study programme “Computer science” (In Latvian)

Title of the course/module	Name of the responsible lecturer/docent	KP Credit points	Planning					
			1st year		2nd year		3rd year	
			Semester					
			1	2	3	4	5	6
A Compulsory part		78						
Field basic guidelines (Compulsory part)		30	10	8	2	6	4	
Mathematical analysis I	Gaļina Hiļķeviča	4	4					
Mathematical analysis II	Gaļina Hiļķeviča	2		2				
Linear Algebra un Analytical Geometry I	Jeļena Mihailova	2	2					
Linear Algebra un Analytical Geometry II	Jeļena Mihailova	2		2				
Mathematical logic	Gaļina Hiļķeviča	2	2					
Discrete mathematics	Gaļina Hiļķeviča	2		2				
Theory of algorithms	Vairis Caune	2	2					
Data structures and algorithms	Karina Šķirmante	2				2		
Probability theory and mathematical statistics	Oskars Rasnačs	2			2			
Differential equations	Gaļina Hiļķeviča	2		2				
Numerical methods	Gaļina Hiļķeviča	2					2	
Optimization methods	Jānis Vucāns	2				2		
Object Oriented Modelling	Raita Rollande	2					2	
Modelling of chaotic processes	Juris Žagars	2				2		
Actual Problems of the Field (Compulsory part)		28	4	4	4	8	8	
Basics of computer science	Sergejs Hiļķevičs	4	4					
Programming	Estere Vītola	4		4				
Object Oriented Programming	Estere Vītola	4			4			
JAVA programming	Karina Šķirmante	4				4		
Visual programming languages	Vairis Caune	4					4	
Information systems analysis and design	Raita Rollande	4				4		
Software development tools and environment	Raita Rollande	4					4	
Interdisciplinary aspects (Compulsory part)		20	4	4	6	4	2	
English I	Ieva Vizule	2	2					
English II	Ieva Vizule	2		2				
Foundations of entrepreneurship	Sergejs Hiļķevičs	2			2			
Basics of economics	Dmitrijs Smirnovs	2				2		
Basics of IT industry rules & regulations & standards	Andis Pilāns	2					2	
Physics I	Ilva Cinīte	2	2					
Physics II	Ilva Cinīte	2		2				
Electronics	Aigars Krauze	4			4			
Civil Protection	Varis Vītols	1				1		
Sustainable society and green thinking	Ivo Lemšs	1				1		
B part		26						
Compulsory elective courses		26	2	4	6	2	4	8
Operating systems	Mārcis Naktiņš	4		4				
Network operating svstems	Andris Vagalis	2				2		

Database technologies	Vija Vagale	4					4	
Computer systems hardware and architecture	Mārcis Naktiņš	2	2					
Local area network design and administration	Mārcis Naktiņš	4			4			
Web technologies	Kārlis Immers	2			2			
Information systems security	Aleksandrs Berežņojs	2						(2)
Basics of computer aided design	Aleksejs Kļokovs	4						(4)
Introduction to computer processing of satellite images	Linda Gulbe	4						(4)
IT project management	Pēteris Lauriņš	4						(4)
Software testing and automation	Madara Freimane	2						(2)
Parallel programming	Jānis Hofmanis	2						(2)
Internship	Gaļina Hilķeviča	8						(8)
C part		6						
Optional courses		6			2		2	2
Bachelor thesis								
Bachelor thesis	Gaļina Hilķeviča	10						10
Total:			120	20	20	20	20	20

Academic Bachelor study programme “Computer science”
(In English)

Title of the course/module	Name of the responsible lecturer/docent	KP Credit points	Planning					
			1st year		2nd year		3rd year	
			Semester					
			1	2	3	4	5	6
A Compulsory part		78						
Field basic guidelines (Compulsory part)		30	10	8	2	6	4	
Mathematical analysis I	Jesus Alberto Cazares Montes	4	4					
Mathematical analysis II	Jesus Alberto Cazares Montes	2		2				
Linear Algebra un Analytical Geometry I	Jesus Alberto Cazares Montes	2	2					
Linear Algebra un Analytical Geometry II	Jesus Alberto Cazares Montes	2		2				
Mathematical logic	Jesus Alberto Cazares Montes	2	2					
Discrete mathematics	Jesus Alberto Cazares Montes	2		2				
Theory of algorithms	Vairis Caune	2	2					
Data structures and algorithms	Karina Šķirmante	2				2		
Probability theory and mathematical statistics	Jesus Alberto Cazares Montes	2			2			
Differential equations	Jesus Alberto Cazares Montes	2		2				
Numerical methods	Gaļina Hilķeviča	2					2	
Optimization methods	Jānis Vucāns	2				2		
Object Oriented Modelling	Raita Rollande	2					2	
Modelling of chaotic processes	Juris Žagars	2				2		
Actual Problems of the Field (Compulsory part)		28	4	4	4	8	8	
Basics of computer science	Estere Vītola	4	4					
Programming	Estere Vītola	4		4				
Object Oriented Programming	Estere Vītola	4			4			

JAVA programming	Karina Šķirmante	4				4		
Visual programming languages	Vairis Caune	4					4	
Information systems analysis and design	Raita Rollande	4				4		
Software development tools and environment	Raita Rollande	4					4	
Interdisciplinary aspects (Compulsory part)		20	4	4	6	4	2	
Fundamentals of the Latvian Language I	Sintija Ozoliņa	2	2					
Fundamentals of the Latvian Language II	Sintija Ozoliņa	2		2				
Foundations of entrepreneurship	Sergejs Hilķevičs	2			2			
Basics of economics	Dmitrijs Smirnovs	2				2		
Basics of IT industry rules & regulations & standards	Andis Pilāns	2					2	
Physics I	Ilva Cinīte	2	2					
Physics II	Ilva Cinīte	2		2				
Electronics	Aigars Krauze	4			4			
Civil Protection	Ivo Lemšs	1				1		
Sustainable society and green thinking	Ivo Lemšs	1				1		
B part		26						
Compulsory elective courses		26	2	4	6	2	4	8
Operating systems	Mārcis Naktiņš	4		4				
Network operating systems	Andris Vagalis	2				2		
Database technologies	Vija Vagale	4					4	
Computer systems hardware and architecture	Mārcis Naktiņš	2	2					
Local area network design and administration	Mārcis Naktiņš	4			4			
Web technologies	Kārlis Immers	2			2			
Information systems security	Aleksandrs Berežnojs	2						(2)
Basics of computer aided design	Aleksejs Klokovs	4						(4)
Introduction to computer processing of satellite images	Linda Gulbe	4						(4)
IT project management	Pēteris Lauriņš	4						(4)
Software testing and automation	Madara Freimane	2						(2)
Parallel programming	Jānis Hofmanis	2						(2)
Internship	Estere Vītola	8						(8)
C part		6						
Optional courses		6			2		2	2
Bachelor thesis								
Bachelor thesis	Estere Vītola	10						10
Total:		120	20	20	20	20	20	20