

## Schedule of study programme implementation: Computer Science

mode of study: full-time study  
Institute of Computer Science

ITEM	NAME OF A GROUP OF COURSES/NAME OF A COURSE	COURSE USOS CODE	Exam after semester	Course credit after semester	Number of hours in the course										I year		II year		III year								
					TOTAL	LECTURES	CLASSES	DISCUSSION CLASSES	LABORATORIES	FOREIGN LANGUAGE CLASSES	SEMINARS/PROSEMINARS	FIELD CLASSES	1 sem.	2 sem.	3 sem.	4 sem.	5 sem.	6 sem.									
													LECTURES	C/DC/L/FLC/SaP/FC	LECTURES	C/DC/L/FLC/SaP/FC	LECTURES	C/DC/L/FLC/SaP/FC	LECTURES	C/DC/L/FLC/SaP/FC	LECTURES	C/DC/L/FLC/SaP/FC					
1	2	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26			
<b>Group of courses 1 (Programming)</b>																											
1	Algorithms and Data Structures	420-IS1-2ASD-23CS	3		60	30	30										30	30									
2	Structured Programming	420-IS1-1PPS-23CS	1		75	30	15	30					30	45													
3	Object-Oriented Programming	420-IS1-1WPO-23CS	2		75	30		45						30	45												
4	Python Programming	420-IS1-1PJP-23CS		2	45	15		30						15	30												
5	Java Programming	420-IS1-2PZ-23CS	3		75	30		45									30	45									
6	Internet Programming	420-IS1-2PIN-23CS		4	60	30		30											30	30							
7	Graphical User Interface Programming	420-IS1-2PWSG-23CS		4	60	30		30											30	30							
8	Parallel and Distributed Programming	420-IS1-3PRR-23CS		5	60	30		30													30	30					
<b>TOTAL</b>					<b>510</b>	<b>225</b>	<b>45</b>	<b>0</b>	<b>240</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>45</b>	<b>45</b>	<b>75</b>	<b>60</b>	<b>75</b>	<b>60</b>	<b>60</b>	<b>30</b>	<b>30</b>	<b>0</b>	<b>0</b>			
<b>Group of courses 2 (Informatics Tools and Applications)</b>																											
1	Computational Methods	420-IS1-2MOB-23CS	4		60	30		30											30	30							
2	Artificial Intelligence	420-IS1-3SZI-23CS	6		60	30		30															30	30			
3	Elements of Automata Theory and Formal Languages	420-IS1-3TAJF-23CS		5	60	30		30													30	30					
4	Computer Systems Architecture	420-IS1-1ASK-23CS		2	60	30		30						30	30												
5	Operating Systems	420-IS1-2SOP-23CS	3		60	30		30									30	30									
6	Network Technologies	420-IS1-2TSI-23CS		4	60	30		30											30	30							
7	Databases	420-IS1-2BD-23CS	3		60	30		30									30	30									
8	Graphics and Human-Computer Communication	420-IS1-2GRA-23CS		4	45	15		30											15	30							
<b>TOTAL</b>					<b>465</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>240</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>30</b>	<b>60</b>	<b>60</b>	<b>75</b>	<b>90</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>			

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													LECTURES	C/DC/L/FLC/SaP/FC	LECTURES	C/DC/L/FLC/SaP/FC	LECTURES	C/DC/L/FLC/SaP/FC	LECTURES	C/DC/L/FLC/SaP/FC	LECTURES	C/DC/L/FLC/SaP/FC		
1	2	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

**Group of courses 3 (Software Engineering)**

1	Software Engineering 1	420-IS1-2IO1-23CS		4	30	30													30					
2	Software Engineering 2	420-IS1-3IO2-23CS	5		60	15			45												15	45		
3	Team Project	420-IS1-3PZ-23CS		6	30				30															30
<b>TOTAL</b>					<b>120</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>15</b>	<b>45</b>	<b>0</b>	<b>30</b>

**Group of courses 4 (Professional and Legal Issues in Informatics)**

1	Health, Safety and Ergonomics	420-IS1-1BHPE-23CS		1	10	10							10											
2	Intellectual Property Rights	420-IS1-1OWI-23CS		1	10	10							10											
<b>TOTAL</b>					<b>20</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Group of courses 5 (Mathematics Courses)**

1	Review of Mathematics	420-IS1-1REM-23CS		1	15		15						15											
2	Mathematical Analysis 1	420-IS1-1AM1-23CS	1		45	15	30						15	30										
3	Mathematical Analysis 2	420-IS1-1AM2-23CS	2		60	30	30							30	30									
4	Mathematical Analysis 3	420-IS1-2AM3-23CS	3		45	15	30									15	30							
5	Defferential and Difference Equations	420-IS1-2RRR-23CS		3	30	15	15									15	15							
6	Linear Algebra with Analytical Geometry	420-IS1-1ALG-23CS	1		60	30	30						30	30										
7	Logic and Set Theory	420-IS1-1PLTM-23CS	1		60	30	30						30	30										
8	Discrete Mathematics	420-IS1-1MDY-23CS	2		60	30	30							30	30									
9	Probabilistic Methods and Statistics	420-IS1-2PST-23CS	4		75	30	30		15									30	45					
<b>TOTAL</b>					<b>450</b>	<b>195</b>	<b>240</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75</b>	<b>105</b>	<b>60</b>	<b>60</b>	<b>30</b>	<b>45</b>	<b>30</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Group of courses 6 (Humanities and Social Sciences Courses)**

1	Humanities Elective Course			2	30	30								30										
2	Social Sciences Elective Course			3	30	15	15									15	15							
3	Computer and Information Ethics	420-IS1-3EI-23CS		5	15	15															15			



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1	2	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
5	Elective Course 5		6		45	15				30													15	30	
6	Elective Course 6		6		45	15				30													15	30	
<b>TOTAL</b>					<b>270</b>	<b>90</b>	<b>0</b>	<b>0</b>	<b>180</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>90</b>	<b>45</b>	<b>90</b>	
<b>Group of courses 10 (Apprenticeships)</b>																									
1	Apprenticeships (3 weeks/120 hours/160 didactic hours)	420-IS1-3PZA-23CS		5																					
<b>TOTAL</b>					<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
<b>TOTAL</b>					<b>2210</b>	<b>860</b>	<b>360</b>	<b>0</b>	<b>810</b>	<b>120</b>	<b>60</b>	<b>0</b>	<b>125</b>	<b>210</b>	<b>165</b>	<b>225</b>	<b>165</b>	<b>225</b>	<b>195</b>	<b>225</b>	<b>135</b>	<b>240</b>	<b>75</b>	<b>225</b>	

checksum 1 2210  
checksum 2 2210

number of ex./cred. 

4	5	3	5	5	3	3	5	4	6	4	3
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