

**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	Number of class hours	ECTS points	ECTS points acquired during the course:				
					elective	with direct participation of academic teachers or other persons conducting classes and students	from the area of humanities or social sciences*	connected with scientific activity carried out at the university in the discipline or disciplines the field of study is assigned to, for the study of a general academic profile	developing practical skills, for the study of a practical profile
1	2	3	4	5	6	7	8	9	
<b>Group of Courses 1 (Programming)</b>									
1	Algorithms and Data Structures	510-IS1-2ASD-23CS	60	4		2,7		4	
2	Structured Programming	510-IS1-1PPS-23CS	75	6		3,3		6	
3	Object-Oriented Programming	510-IS1-1WPO-23CS	75	6		3,3		6	
4	Python Programming	510-IS1-1PJP-23CS	45	4		2		4	
5	Java Programming	510-IS1-2PZ-23CS	75	6		3,3		6	
6	Internet Programming	510-IS1-2PIN-23CS	60	4		2,6		4	
7	Graphical User Interface Programming	510-IS1-2PWSG-23CS	60	4		2,6		2	
8	Parallel and Distributed Programming	510-IS1-3PRR-23CS	60	4		2,6		4	
<b>TOTAL</b>				<b>38</b>		<b>22,4</b>		<b>36</b>	
<b>Group of Courses 2 (Informatics Tools and Applications)</b>									
1	Computational Methods	510-IS1-2MOB-23CS	60	4		2,7		4	
2	Artificial Intelligence	510-IS1-3SZI-23CS	60	4		2,7		4	
3	Elements of Automata Theory and Formal Languages	510-IS1-3TAJF-23CS	60	4		2,6		4	
4	Computer Systems Architecture	510-IS1-1ASK-23CS	60	5		2,6		2	
5	Operating Systems	510-IS1-2SOP-23CS	60	5		2,7		2	
6	Network Technologies	510-IS1-2TSI-23CS	60	4		2,6		2	
7	Databases	510-IS1-2BD-23CS	60	5		2,7		5	
8	Graphics and Human-Computer Communication	510-IS1-2GRA-23CS	45	4		2			
<b>TOTAL</b>				<b>35</b>		<b>20,6</b>		<b>23</b>	
<b>Group of Courses 3 (Software Engineering)</b>									
1	Software Engineering 1	510-IS1-2IO1-23CS	30	2		1,3		2	
2	Software Engineering 2	510-IS1-3IO2-23CS	60	4		2,7		4	
3	Team Project	510-IS1-3PZ-23CS	30	4		1,4			
<b>TOTAL</b>				<b>10</b>		<b>5,4</b>		<b>6</b>	
<b>Group of Courses 4 (Professional and Legal Issues in Informatics)</b>									
1	Health, Safety and Ergonomics	510-IS1-1BHPE-23CS	10	0,5		0,5			
2	Intellectual Property Rights	510-IS1-1OWI-23CS	10	0,5		0,5			
<b>TOTAL</b>				<b>1</b>		<b>1</b>			
<b>Group of Courses 5 (Mathematics Courses)</b>									
1	Review of Mathematics	510-IS1-1REM-23CS	15	1		0,8			
2	Mathematical Analysis 1	510-IS1-1AM1-23CS	45	4		2,1			
3	Mathematical Analysis 2	510-IS1-1AM2-23CS	60	5		2,7		2	
4	Mathematical Analysis 3	510-IS1-2AM3-23CS	45	4		2,1		2	
5	Differential and Difference Equations	510-IS1-2RRR-23CS	30	2		1,4		1	
6	Linear Algebra with Analytical Geometry	510-IS1-1ALG-23CS	60	5		2,7			
7	Logic and Set Theory	510-IS1-1PLTM-23CS	60	5		2,7		3	
8	Discrete Mathematics	510-IS1-1MDY-23CS	60	5		2,7		5	
9	Probabilistic Methods and Statistics	510-IS1-2PST-23CS	75	6		3,3			
<b>TOTAL</b>				<b>37</b>		<b>20,5</b>		<b>13</b>	

Institute of Computer Science					ECTS points acquired during the course:				
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1	2	3	4	5	6	7	8	9	
<b>Group of Courses 6 (Humanities and Social Sciences Courses)</b>									
1	Humanities Elective Course		30	2	2	1,3	2		
2	Social Sciences Elective Course		30	2	2	1,3	2		
3	Computer and Information Ethics	510-IS1-3EI-23CS	15	1		0,8	1		
<b>TOTAL</b>				<b>5</b>	<b>4</b>	<b>3,4</b>	<b>5</b>		
<b>Group of Courses 7 (Diploma Courses)</b>									
1	Diploma Preparation Class 1	510-IS1-3PD1-23CS	15	2	2	0,8		2	
2	Diploma Preparation Class 2	510-IS1-3PD2-23CS	45	8	8	2		8	
3	Diploma Seminar 1	510-IS1-3SD1-23CS	30	2	2	1,3			
4	Diploma Seminar 2	510-IS1-3SD2-23CS	30	2	2	1,3			
<b>TOTAL</b>				<b>14</b>	<b>14</b>	<b>5,4</b>		<b>10</b>	
<b>Group of Courses 8 (General Education)</b>									
1	Foreign Language 1	510-IS1-1JN1-23 / 510-IS1-1JR1-23	30	3	3	1,3			
2	Foreign Language 2	510-IS1-1JN2-23 / 510-IS1-1JR2-23	30	3	3	1,3			
3	Foreign Language 3	510-IS1-2JN3-23 / 510-IS1-2JR3-23	30	3	3	1,3			
4	Foreign Language 4	510-IS1-2JN4-23 / 510-IS1-2JR4-23	30	3	3	1,4			
5	Physical Education 1	510-IS1-1WF1-23CS	30						
6	Physical Education 2	510-IS1-1WF2-23CS	30						
<b>TOTAL</b>				<b>12</b>	<b>12</b>	<b>5,3</b>			
<b>Group of Courses 9 (Elective Courses)</b>									
1	Elective Course 1		45	4	4	2,1		4	
2	Elective Course 2		45	4	4	2,1		4	
3	Elective Course 3		45	4	4	2,1		4	
4	Elective Course 4		45	4	4	2,1		4	
5	Elective Course 5		45	4	4	2,1		4	
6	Elective Course 6		45	4	4	2,1		4	
<b>TOTAL</b>				<b>24</b>	<b>24</b>	<b>12,6</b>		<b>24</b>	
<b>Group of Courses 10 (Apprenticeships)</b>									
1	Apprenticeships (3 weeks/120 hours/160 didactic hours)	510-IS1-3PZA-23CS		6	6	6			
<b>TOTAL</b>				<b>6</b>	<b>6</b>	<b>6</b>			
<b>TOTAL</b>				<b>182</b>	<b>60</b>	<b>102,6</b>	<b>5</b>	<b>112</b>	

\* a number of ECTS points a student must obtain during classes from the area of humanities and social sciences, at least 5 ECTS points – with regard to the fields of study.

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Proportional (%) share of ECTS points in each discipline the field of study is assigned to, in a number of ECTS points necessary to complete the study, and indicating the prevailing discipline.

Computer Science: 81%  
Mathematics: 19%

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Proportional (%) share of ECTS points obtained during elective classes in a number of ECTS points necessary to complete the study, at least 30% of ECTS points necessary to complete the study.								32,97	
Proportional (%) share of ECTS points obtained during classes with direct participation of academic teachers or other persons conducting classes and students in a number of ECTS points necessary to complete the study, at least 50% of ECTS points necessary to complete the study.								56,37	
For the study of a general academic profile – proportional (%) share of ECTS points obtained during classes connected with scientific activity carried out at the university in the discipline or disciplines the field of study is assigned to, in a number of ECTS points necessary to complete the study, more than 50% of ECTS points necessary to complete the study.								61,54	
For the study of a practical profile – proportional (%) share of ECTS points obtained during classes developing practical skills in a number of ECTS points necessary to complete the study, more than 50% of ECTS points necessary to complete the study.								not applicable	