

Schedule of study programme implementation: computer science second degree

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
Group of Courses_ 1 General Education									
1	Intellectual Property Rights	510-IS2-IOWI-23CS	10	1		0,6			
2	Foreign language	510-IS2-1JN1-23 / 510-IS2-1JR1-23	30	2	2	1,5			
3	English for IT Professionals	510-IS2-1JAI-23CS	30	2		1,5			
4	Course to choose from humanities		10	2	2	0,6	2		
5	Course to choose from social sciences		25	3	3	1,2	3		
TOTAL				105	10	7	5,4	5	
Group of Courses_ 2 Main courses									
1	Modelling and Analysis of IT Systems	510-IS2-1MASI-23CS	30	3		1,7			
2	Advanced Databases	510-IS2-1ZBD-23CS	45	4		2,4			4
3	Global Optimization	510-IS2-1OG-23CS	45	4		2,4			4
4	Big data: processing and analysis of large data sets	510-IS2-1BDPA-23CS	45	4		2,4			
5	Introduction to Fuzzy Modelling and Analysis	510-IS2-1MSR-23CS	45	4		2,4			4
6	Rule-based and Expert Systems	510-IS2-1SE-23CS	30	3		1,7			3
7	Massively Parallel Computations	510-IS2-1MOR-23CS	45	4		2,4			4
8	Deep Learning	510-IS2-1GUM-23CS	45	4		2,4			4
9	Security of Data and IT Systems	510-IS2-2BDSI-23CS	45	4		2,4			2
10	Advanced Algorithms and Data Structures	510-IS2-2ZASD-23CS	45	4		2,4			4
11	Management of IT Projects	510-IS2-2ZPI-23CS	30	4		1,7			
TOTAL				450	42		24,3		29
Group of Courses_ 3 Elective courses									
1	Analytic Methods in Computer Science	510-IS2-1MAI-23CS / 510-IS2-1GAGK-23CS	45	4	4	2,4			
2	Advanced Object-Oriented Programming	510-IS2-1ZPC-23CS / 510-IS2-1ZPJ-23CS / 510-IS2-1ZPO-23CS	30	4	4	1,7			4
3	Multimedia Techniques and Systems	510-IS2-1TMUL-23CS / 510-IS2-1AISM-23CS / 510-IS2-1IMSU-23CS	30	4	4	1,7			2
TOTAL				105	12	12	5,8		6
Specialization module_ 1 (Internet and Mobile Technologies)									
Group of Courses_ 4A Specialization courses									
1	Internet Applications Design	510-IS2-1PAI-23CS	30	3		1,7			3
2	Virtual Technologies and Containers	510-IS2-1TWK-23CS	30	3		1,7			
3	Data Serialization Formats	510-IS2-1TXP-23CS	45	4		2,4			4
4	Mobile Technologies	510-IS2-1TMO-23CS	30	3		1,7			
5	Internet Data Analysis	510-IS2-2ADI-23CS	30	3		1,7			3
6	Internet Frameworks	510-IS2-2PFI-23CS	45	4		2,4			4

Institute of Computer Science					ECTS points acquired during the course:				
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1	2	3		4	5	6	7	8	9
7	Mobile Applications Programming	510-IS2-2PAM-23CS	45	4		2,4		4	
8	Network Programming	510-IS2-2PSS-23CS	45	4		2,4		2	
TOTAL			300	28		16,4		20	
Group of Courses_ 5 Diploma Module									
	M.Sc. Diploma Seminar 1	510-IS2-2SM1-23CS	30	3	3	1,7		3	
	M.Sc. Diploma Seminar 2	510-IS2-2SM2-23CS	30	3	3	1,7		3	
	M. Sc. Diploma Preparation Class 1	510-IS2-2PM1-23CS	15	5	5	1,5		5	
	M. Sc. Diploma Preparation Class 2	510-IS2-2PM2-23CS	45	17	17	3,6		17	
TOTAL			120	28	28	8,5		28	
TOTAL			1080	120	47	60,4	5	83	

* 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 assigned to the disciplines in the areas other than humanities or social sciences respectively.

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 - 100%
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.	39,17%
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.	50,33%
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.	69,17%
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.	