Schedule of study programme implementation: computer science second degree
mode of study: full-time study
Institute of Computer Science

ECTS points acquired during the course:

ITEM	NAME OF A GROUP OF COURSES/NAME OF A COURSE	COURSE USOS CODE	Number of class hours	ECTS points	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	420-IS2-1OWI-23CS	10	1		0,6			
2	Foreign language	420-IS2-1JN1-23/ 420-IS2-1JR1-23	30	2	2	1,5			
3	English for IT Professionals	420-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**	**0**	**0**
Group of Courses_ 2 Main courses									
1	Modelling and Analysis of IT Systems	420-IS2-1MASI-23CS	30	3		1,7			
2	Advanced Databases	420-IS2-1ZBD-23CS	45	4		2,4		4	
3	Global Optimization	420-IS2-1OG-23CS	45	4		2,4		4	
4	Big data: processing and analysis of large data sets	420-IS2-1BDPA-23CS	45	4		2,4			
5	Introduction to Fuzzy Modelling and Analysis	420-IS2-1MSR-23CS	45	4		2,4		4	
6	Rule-based and Expert Systems	420-IS2-1SE-23CS	30	3		1,7		3	
7	Massively Parallel Computations	420-IS2-1MOR-23CS	45	4		2,4		4	
8	Deep Learning	420-IS2-1GUM-23CS	45	4		2,4		4	
9	Security of Data and IT Systems	420-IS2-2BDSI-23CS	45	4		2,4		2	
10	Advanced Algorithms and Data Structures	420-IS2-2ZASD-23CS	45	4		2,4		4	
11	Management of IT Projects	420-IS2-2ZPI-23CS	30	4		1,7			
TOTAL			**450**	**42**	**0**	**24,3**	**0**	**29**	**0**
Group of Courses_ 3 Elective courses									
1	Analytic Methods in Computer Science	420-IS2-1MAI-23CS / 420-IS2-1GAGK-23CS	45	4	4	2,4			
2	Advanced Object-Oriented Programming	420-IS2-1ZPC-23CS/ 420-IS2-1ZPJ-23CS/ 420-IS2-1ZPO-23CS	30	4	4	1,7		4	
3	Multimedia Techniques and Systems	420-IS2-1TMUL-23CS/ 420-IS2-1AISM-23C / 420-IS2-1IMSU-23CS	30	4	4	1,7		2	
TOTAL			**105**	**12**	**12**	**5,8**	**0**	**6**	**0**
Specialization module_ 1 (Internet and Mobile Technologies)									
Group of Courses_ 4A Specialization courses									
1	Internet Applications Design	420-IS2-1PAI-23CS	30	**3**		1,7		3	
2	Virtual Technologies and Containers	420-IS2-1TWK-23CS	30	**3**		1,7			
3	Data Serialization Formats	420-IS2-1TXP-23CS	45	4		2,4		4	
4	Mobile Technologies	420-IS2-1TMO-23CS	30	3		1,7			
5	Internet Data Analysis	420-IS2-2ADI-23CS	30	3		1,7		3	
6	Internet Frameworks	420-IS2-2PFI-23CS	45	4		2,4		4	
7	Mobile Applications Programming	420-IS2-2PAM-23CS	45	4		2,4		4	
8	Network Programming	420-IS2-2PSS-23CS	45	4		2,4		2	
TOTAL			**300**	**28**	**0**	**16,4**	**0**	**20**	**0**
Group of Courses_ 5 Diploma Module									

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ECTS points acquired during the course:

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1	2	3		4	5	6	7	8	9
	M.Sc. Diploma Seminar 1	420-IS2-2SM1-23CS	30	3	3	1,7		3	
	M.Sc. Diploma Seminar 2	420-IS2-2SM2-23CS	30	3	3	1,7		3	
	M. Sc. Diploma Preparation Class 1	420-IS2-2PM1-23CS	15	5	5	1,5		5	
	M. Sc. Diploma Preparation Class 2	420-IS2-2PM2-23CS	45	17	17	3,6		17	
TOTAL			**120**	**28**	**28**	**8,5**	**0**	**28**	**0**
TOTAL			**1080**	**120**	**47**	**60,4**	**5**	**83**	**0**

* 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 necesary 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.	0,00%