

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	Exam after semester	Course credit after semester	A number of hours in the course									I year				II year			
					TOTAL	LECTURES	CLASSES	DISCUSSION CLASSES	LABORATORIES	FOREIGN LANGUAGE CLASSES	SEMINARS/PROSEMINARS	FIELD CLASSES	1 sem.		2 sem.		3 sem.		4 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	
1	2	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Group of Courses_ 1 General Education																					
1	Intellectual Property Rights	420-IS2-10WI-23CS		1	10	10								10							
2	Foreign language	420-IS2-1JN1-23 / 420-IS2-1JR1-23		1	30					30				30							
3	English for IT Professionals	420-IS2-1JAI-23CS		2	30					30						30					
4	Course to choose from humanities			3	10	10											10				
5	Course to choose from social sciences			4	25	10			15										10	15	
TOTAL					105	30	0	0	15	60	0	0	0	10	30	0	30	10	0	10	15
Group of Courses_ 2 Main courses																					
1	Modelling and Analysis of IT Systems	420-IS2-1MASI-23CS	1		30	15			15					15	15						
2	Advanced Databases	420-IS2-1ZBD-23CS	1		45	15			30					15	30						
3	Global Optimization	420-IS2-1OG-23CS	1		45	15			30					15	30						
4	Big data: processing and analysis of large data sets	420-IS2-1MAL-23CS		2	45	15			30						15	30					
5	Introduction to Fuzzy Modelling and Analysis	420-IS2-1MSR-23CS	2		45	30			15						30	15					
6	Rule-based and Expert Systems	420-IS2-1SE-23CS		2	30	15			15						15	15					
7	Massively Parallel Computations	420-IS2-1MOR-23CS		2	45	15			30						15	30					
8	Deep Learning	420-IS2-1GUM-23CS	2		45	15			30						15	30					
9	Security of Data and IT Systems	420-IS2-2BDSI-23CS	3		45	15			30								15	30			
10	Advanced Algorithms and Data Structures	420-IS2-2ZASD-23CS	3		45	30			15								30	15			
11	Management of IT Projects	420-IS2-2ZPI-23CS	4		30	15			15										15	15	
TOTAL					450	195	0	0	255	0	0	0	0	45	75	90	120	45	45	15	15
Group of Courses_ 3 Elective courses																					
1	Analytic Methods in Computer Science	420-IS2-1MAI-23CS / 420-IS2-1GAGK-23CS		1	45	15	30							15	30						
2	Advanced Object-Oriented Programming	420-IS2-1ZPC-23CS / 420-IS2-1ZPJ-23CS / 420-IS2-1ZPO-23CS		1	30	15			15					15	15						
3	Multimedia Techniques and Systems	420-IS2-1TMUL-23CS / 420-IS2-1AISM-23CS / 420-IS2-1MSU-23CS		2	30	15			15						15	15					
TOTAL					105	45	30	0	30	0	0	0	0	30	45	15	15	0	0	0	0
Specialization module_ 1 (Internet and Mobile Technologies)																					
Group of Courses_ 4A Specialization courses																					
1	Internet Applications Design	420-IS2-1PAI-23CS		1	30	15			15					15	15						
2	Virtual Technologies and Containers	420-IS2-1TWK-23CS		1	30	15			15					15	15						
3	Data Serialization Formats	420-IS2-1TXP-23CS		2	45	15			30						15	30					
4	Mobile Technologies	420-IS2-1TMO-23CS		2	30	15			15						15	15					
5	Internet Data Analysis	420-IS2-2ADI-23CS	3		30	15			15								15	15			
6	Internet Frameworks	420-IS2-2PFI-23CS		3	45	15			30								15	30			
7	Mobile Applications Programming	420-IS2-2PAM-23CS		3	45	15			30								15	30			
8	Network Programming	420-IS2-2PSS-23CS		3	45	15			30								15	30			
TOTAL					300	120	0	0	180	0	0	0	0	30	30	30	45	60	105	0	0
Group of Courses_ 5 Diploma Module																					
	M.Sc. Diploma Seminar 1	420-IS2-2SM1-23CS		3	30					30									30		
	M.Sc. Diploma Seminar 2	420-IS2-2SM2-23CS		4	30					30											30
	M. Sc. Diploma Preparation Class 1	420-IS2-2PM1-23CS		3	15				15										15		
	M. Sc. Diploma Preparation Class 2	420-IS2-2PM2-23CS		4	45				45												45
TOTAL					120	0	0	0	60	0	60	0	0	0	0	0	0	0	45	0	75
TOTAL					0	1080	390	30	0	540	60	60	0	115	180	135	210	115	195	25	105

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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	

checksum 1 **1080**
checksum 2 **1080**

a number of ex./cred.

3	6	2	7	4	5	1	3
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