

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/FCLC/SaP/FC	LECTURES	C/DC/L/FCLC/SaP/FC	LECTURES	C/DC/L/FCLC/SaP/FC	LECTURES	C/DC/L/FCLC/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	510-IS2-1OWI-23CS		1	10	10								10								
2	Foreign language	510-IS2-1JN1-23 / 510-IS2-1JR1-23		1	30					30					30							
3	English for IT Professionals	510-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			15	60				10	30		30	10		10	15	
Group of Courses_2 Main courses																						
1	Modelling and Analysis of IT Systems	510-IS2-1MASI-23CS	1		30	15			15					15	15							
2	Advanced Databases	510-IS2-1ZBD-23CS	1		45	15			30					15	30							
3	Global Optimization	510-IS2-1OG-23CS	1		45	15			30					15	30							
4	Big data: processing and analysis of large data sets	510-IS2-1MAL-23CS		2	45	15			30							15	30					
5	Introduction to Fuzzy Modelling and Analysis	510-IS2-1MSR-23CS		2	45	30			15							30	15					
6	Rule-based and Expert Systems	510-IS2-1SE-23CS		2	30	15			15							15	15					
7	Massively Parallel Computations	510-IS2-1MOR-23CS		2	45	15			30							15	30					
8	Deep Learning	510-IS2-1GUM-23CS		2	45	15			30							15	30					
9	Security of Data and IT Systems	510-IS2-2BDSI-23CS		3	45	15			30									15	30			
10	Advanced Algorithms and Data Structures	510-IS2-2ZASD-23CS		3	45	30			15									30	15			
11	Management of IT Projects	510-IS2-2ZPI-23CS		4	30	15			15											15	15	
TOTAL					450	195			255					45	75	90	120	45	45	15	15	
Group of Courses_3 Elective courses																						
1	Analytic Methods in Computer Science	510-IS2-1MAI-23CS / 510-IS2-1GAGK-23CS		1	45	15	30							15	30							
2	Advanced Object-Oriented Programming	510-IS2-1ZPC-23CS / 510-IS2-1ZPI-23CS / 510-IS2-1ZPO-23CS		1	30	15			15					15	15							
3	Multimedia Techniques and Systems	510-IS2-1TMUL-23CS / 510-IS2-1AISM-23CS / 510-IS2-1HMSU-23CS		1	30	15			15					15	15							
TOTAL					105	45	30		30					45	60							
Specialization module_1 (Internet and Mobile Technologies)																						
Group of Courses_4A Specialization courses																						
1	Internet Applications Design	510-IS2-1PAI-23CS		1	30	15			15					15	15							
2	Virtual Technologies and Containers	510-IS2-1TWK-23CS		1	30	15			15					15	15							
3	Data Serialization Formats	510-IS2-1TXP-23CS		2	45	15			30							15	30					
4	Mobile Technologies	510-IS2-1TMO-23CS		2	30	15			15							15	15					
5	Internet Data Analysis	510-IS2-2ADI-23CS		3	30	15			15									15	15			
6	Internet Frameworks	510-IS2-2PFI-23CS		3	45	15			30									15	30			
7	Mobile Applications Programming	510-IS2-2PAM-23CS		3	45	15			30									15	30			
8	Network Programming	510-IS2-2PSS-23CS		3	45	15			30									15	30			
TOTAL					300	120			180					30	30	30	45	60	105			
Group of Courses_5 Diploma Module																						
	M.Sc. Diploma Seminar 1	510-IS2-2SM1-23CS		3	30														30			
	M.Sc. Diploma Seminar 2	510-IS2-2SM2-23CS		4	30																30	
	M. Sc. Diploma Preparation Class 1	510-IS2-2PM1-23CS		3	15				15										15			
	M. Sc. Diploma Preparation Class 2	510-IS2-2PM2-23CS		4	45				45												45	
TOTAL					120				60	60									45		75	
TOTAL					1080	390	30		540	60	60			130	195	120	195	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	7	2	6	4	5	1	3
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