BSc in Computer Science (in English, for Foreign students), 2012

Code	Name of course	Lecture	Exam	Practise	Mark	Consult	Credits	Pre-requisite	Semester	Pre. autumn	Pre. spring	1st sem.	2nd sem.	3rd sem.	4th sem.	5th sem.	6th sem.
IP-12fBM1G	Introduction to mathematics I. *			4	AI	-4	0	-		0+4 AI							
IP-12fBI1G	Introduction to informatics I. *			4	AI	-4	0	-		0+4 AI							
IP-12fBA1G	Basic English I. *			4	AI	-4	0	-		0+4 AI							
IP-12fBM2G	Introduction to mathematics II. *			4	HFE	-4	0	-			0+4 HFE						
IP-12fBI2G	Introduction to informatics II. *			4	HFE	-4	0	-			0+4 HFE						
IP-12fBA2G	Basic English II. *			4	HFE	-4	0	-			0+4 HFE						

* The fulfillment of the requirements of the courses IP-12fBM2G, IP-12fBI2G, IP-12fBA2G is necessary to start the 1st semester. A student can be exempted from these courses by writing a successful Entry test.

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IP-12fTMKG	Preparation course for academic studies			2	KFE		0	-	1			0+2 KFE					
IP-12fMATAG	Precalculus practices			2	HFE	-1	1	-	1			0+2 HFE					
IP-12fAN1E	Analysis I.	2	K			1	3	IP-12fMATA	2				2+0 K				
IP-12fAN1G	Analysis I.			2	GY		2	-	2				0+2 GY				
IP-12fAN2E	Analysis II.	2	K			1	3	IP-12fAN1	3					2+0 K			
IP-12fAN2G	Analysis II.			2	GY		2	-	3					0+2 GY			
IP-12fAN3EG	Analysis III.	1	X	2		1	4	IP-12fAN2	4						1+2 X		
IP-12fNM1E	Numerical methods I.	2	K			1	3	IP-12fAN1, IP-12fLA	3					2+0 K			
IP-12fNM1G	Numerical methods I.			2	GY		2	-	3					0+2 GY			
IP-12fNM2G	Numerical methods II.			2	GY	2	4	IP-12fNM1	4						0+2 GY		
IP-12fMODALEG	Models and algorithms			2	GY	1	3	IP-12fAN3	5							0+2 GY	
IP-12fDM1E	Discrete mathematics I.	3	K			1	4	-	1			3+0 K					
IP-12fDM1G	Discrete mathematics I.			3	GY		3	-	1			0+3 GY					
IP-12fDM2E	Discrete mathematics II.	3	K				3	IP-12fDM1	2				3+0 K				
IP-12fDM2G	Discrete mathematics II.			3	GY		3	-	2				0+3 GY				
IP-12fLAE	Linear algebra	2	K				2	-	1			2+0 K					
IP-12fLAG	Linear algebra			2	GY		2	-	1			0+2 GY					
IP-12fVSZE	Probability and statistics	2	K				2	IP-12fAN2	5							2+0 K	
IP-12fVSZG	Probability and statistics			2	GY		2	-	5							0+2 GY	
IP-12fLSZEE	Logic and theory of computation	2	K				2	IP-12fDM2, IP-12fFNY	5							2+0 K	
IP-12fLSZEG	Logic and theory of computation			2	GY		2	-	5							0+2 GY	

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IP-12fAA1E	Algorithms and data structures I.	2	K				2	IP-12fPROG	3					2+0 K			
IP-12fAA1G	Algorithms and data structures I.			2	GY		2	-	3					0+2 GY			
IP-12fAA2E	Algorithms and data structures II.	2	K			1	3	IP-12fAA1	4						2+0 K		
IP-12fAA2G	Algorithms and data structures II.			2	GY		2	-	4						0+2 GY		
IP-12fFNYE	Formal languages	2	K				2	IP-12fDM1	2				2+0 K				
IP-12fFNYG	Formal languages			2	GY		2		2				0+2 GY				
IP-12fMIAE	Artificial intelligence	2	K			1	3	IP-12fAA2	6								2+0 K
IP-12fPAEG	Programming fundamentals	2	X	2		1	5	-	1			2+2 X					
IP-12fSZGAEG	Fundaments of computers	2	X	2		1	5	-	1			2+2 X					
IP-12fPROGEG	Programming	2	X	4		1	7	IP-12fPA	2				2+4 X				
IP-12fPNY1EG	Programming languages C++	2	X	2		1	5	IP-12fPROG	4						2+2 X		
IP-12fPNY2EG	Programming languages JAVA	2	X	2		1	5	IP-12fPROG	3					2+2 X			
IP-12fFUNPEG	Functional programming			2	GY	1	3	IP-12fPA	2				0+2 GY				
IP-12fPROGT1EG	Practical software engineering I.	3	X	2		1	6	IP-12fPROG	3					3+2 X			
IP-12fPROGT2EG	Practical software engineering II.	2	X	1		1	4	IP-12fPROGT1	4						2+1 X		
IP-12fALKEG	Application development			2	GY		2	IP-12fPROGT2	5							0+2 GY	
IP-12fPRJG	Tools of software projects			2	GY		2	IP-12fPNY1	6								0+2 GY
IP-12fFPE	Compilers	2	K			1	3	IP-12fFNY, IP-12fPNY1	5							2+0 K	
IP-12fFPG	Compilers			2	GY		2	-	5							0+2 GY	
IP-12fOPREG	Operating systems	2	X	1		1	4	IP-12fSZGA, IP-12fPROG	4						2+1 X		

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IP-12fSZHE	Computer networks	2	K			1	3	IP-12fPNY1	5							2+0 K	
IP-12fSZHG	Computer networks			2	GY		2	-	5							0+2 GY	
IP-12fORE	Distributed systems	2	K			1	3	IP-12fPNY1	6								2+0 K
IP-12fORG	Distributed systems			2	GY		2	-	6								0+2 GY
IP-12fAB1E	Databases I.	2	K			1	3	IP-12fAA1	4						2+0 K		
IP-12fAB1G	Databases I.			2	GY		2	-	4						0+2 GY		
IP-12fAB2E	Databases II.	2	K			1	3	IP-12fAB1	5							2+0 K	
IP-12fAB2G	Databases II.			2	GY		2	-	5							0+2 GY	
IP-12fSZGE	Computer graphics**	2	K			1	3	IP-12fLA	3					2+0 K			
IP-12fSZGG	Computer graphics**			2	GY		2	IP-12fLA, IP-12fPROG	3					0+2 GY			
IP-12fKGAE	Principles of economics	3	K				3	-	1			3+0 K					
IP-12fJMIE	Basic legal and business knowledge	2	K				2	-	1			2+0 K					
	Total course hours/credits in semester											27/27	22/25	25/30	23/31	24/28	8/10
	Free credits						9		2,6				4				5
	Thesis credits						20		5,6							5	15
	Total credits in semester											27	29	30	31	33	30
	Total credits***						180										

** The courses IP-12fSZGE and IP-12fSZGG can be independently studied.

*** According to the annex I. of the Government Decree 289/2005. (XII.22.) the students of the Computer Science BSc course **have to fulfill a compulsory internship of consecutive 6–8 weeks**. (The required duration of the internship is 6 weeks for students enrolled before September, 2014; and 8 weeks for students enrolled in or after September, 2014.) The internship has no credits assigned but it is necessary for the completion of the course requirements.

† The curriculum was modified in July, 2014 and on May 17, 2016 according to Faculty decision.