Computer Science BSc 2018 (in English, for Foreign students)

Code	Course	Előfeltétel 1	Lecture (L)	Exam €	Practice (Pr	Practice Grade (PG)	Consultation	Credit	Semester	Pre. autumn	Pre. spring	1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester
IP-18fBM1G	Introduction to mathematics I. *			4	AI	-4	0	0	-	0+4 AI							
IP-18fBI1G	Introduction to informatics I. *			4	AI	-4	0	0	-	0+4 AI							
IP-18fBA1G	Basic English I. *			4	AI	-4	0	0	-	0+4 AI							
IP-18fBM2G	Introduction to mathematics II. *			4	HFE	-4	0	0	-		0+4 HFE						
IP-18fBI2G	Introduction to informatics II. *			4	HFE	-4	0	0	-		0+4 HFE						
IP-18fBA2G	Basic English II. *			4	HFE	-4	0	0	-		0+4 HFE						

The fulfillment of the requirements of the courses IP-18fBM2G, IP-18fBI2G, IP-18fBA2G 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-18fSZGREG	Computer systems		2	X	2	PG	1	5	1			2+2+1					
IP-18fPROGEG	Programming		2	X	3	PG	1	6	1			2+3+1					
IP-18fIMPROGEG	Imperative programming		2	X	3	PG	0	5	1			2+3+0					
IP-18fFUNPEG	Functional programming		2	K	2	PG	1	5	1			2+2+1					
IP-18fMATAG	Basic Mathematics		0		4	PG	0	4	1			0+4+0					
IP-18fTMKG	Learning Methodology		0		1	PG	0	1	1			0+1+0					
IP-18fIVMEG	Business fundamentals		1	X	2	PG	0	3	1			1+2+0					
IP-18fPNY1EG	Programming languages I	IP-18fIMPROGEG	1	X	1	PG	1	3	2				1+1+1				
IP-18fPNY2EG	Programming languages II	IP-18fIMPROGEG	1	X	1	PG	1	3	2				1+1+1				
IP-18fOEPROGEG	Object-oriented programming	IP-18fPROGEG	2	X	3	PG	1	6	2				2+3+1				
IP-18fWF1EG	Web development		1	X	2	PG	0	3	2				1+2+0				
IP-18fAA1E	Algorithms and data structures I	IP-18fAA1G (weak)	2	E	0		0	2	2				2+0+0				
IP-18fAA1G	Algorithms and data structures I	IP-18fMATAG, IP-18fPROGEG	0		2	PG	1	3	2				0+2+1				
IP-18fDM1E	Discrete mathematics I	IP-18fDM1G (weak)	2	E	0		0	2	2				2+0+0				
IP-18fDM1G	Discrete mathematics I	IP-18fMATAG	0		2	PG	1	3	2				0+2+1				

IP-18fAN1E	Analysis I	IP-18fAN1G (weak)	2	E	0		0	2	2				2+0+0				
IP-18fAN1G	Analysis I	IP-18fMATAG	0		2	PG	1	3	2				0+2+1				
IP-18fAA2E	Algorithms and data structures II	IP-18fAA2G (weak)	2	E	0		0	2	3					2+0+0			
IP-18fAA2G	Algorithms and data structures II	IP-18fAA1E	0		2	PG	1	3	3					0+2+1			
IP-18fWPEG	Web programming	IP-18fWF1EG	1		2	PG	1	4	3					1+2+1			
IP-18fPROGTEG	Programming technology	IP-18fOEPROGEG	2		2	PG	1	5	3					2+2+1			
IP-18fAN2E	Analysis II	IP-18fAN2G (weak)	2	E	0		0	2	3					2+0+0			
IP-18fAN2G	Analysis II	IP-18fAN1E	0		2	PG	1	3	3					0+2+1			
IP-18fDMAG	Application of discrete models	IP-18fDM1E	0		2	PG	1	3	3					0+2+1			
IP-18fOPREG	Operating systems	IP-18fSZGREG	1	X	1	PG	1	3	4						1+1+1		
IP-18fAB1E	Databases I	IP-18fAB1G (weak)	2	E	0		0	2	4						2+0+0		
IP-18fAB1G	Databases I	IP-18fAA1E	0		2	PG	0	2	4						0+2+0		
IP-18fSZTE	Software technology	IP-18fSZTG (weak)	2	E	0		0	2	4						2+0+0		
IP-18fSZTG	Software technology	IP-18fPROGTEG	0		2	PG	1	3	4						0+2+1		
IP-18fSZEA1E	Fundamentals of theory of computation I	IP-18fSZEA1G (weak)	2	E	0		0	2	4						2+0+0		
IP-18fSZEA1G	Fundamentals of theory of computation I	IP-18fDM1E	0		2	PG	1	3	4						0+2+1		
IP-18fNM1E	Numerical methods	IP-18fNM1G (weak)	2	E	0		0	2	4						2+0+0		
IP-18fNM1G	Numerical methods	IP-18fAN2E	0		2	PG	1	3	4						0+2+1		
IP-18fKPROGEG	Concurrent programming	IP-18fPNY2EG	1		1	PG	1	3	5							1+1+1	
IP-18fTKHE	Telecommunication networks	IP-18fTKHG (weak)	2	E			0	2	5							2+0+0	
IP-18fTKHG	Telecommunication networks	IP-18fPNY1EG			2	PG	1	3	5							0+2+1	

IP-18fMIAE	Artificial intelligence	IP-18fAA2E	2	E			1	3	5							2+0+1	
IP-18fAB2E	Databases II	IP-18fAB2G	2	E	0		0	2	5							2+0+0	
IP-18fAB2G	Databases II	IP-18fAB1E	0		2	PG	1	3	5							0+2+1	
IP-18fSZEA2E	Fundamentals of theory of computation II	IP-18fSZEA2G (weak)	2	E	0		0	2	5							2+0+0	
IP-18fSZEA2G	Fundamentals of theory of computation II	IP-18fSZEA1E, IP-18fAA2E	0		2	PG	1	3	5							0+2+1	
IP-18fVSZG	Probability and statistics	IP-18fAN2E	0		2	PG	1	3	5							0+2+1	
	Obligatory in semester							**127**				**29**	**30**	**22**	**22**	**24**	
	Electives:																
IP-18fKVGPUEG	GPU programming	IP-18fMATAG	1	X	2	PG	0	3	3,4,5					1+2+0	1+2+0	1+2+0	
IP-18fKVKRBE	Cryptography and security	IP-18fKVKRBG (weak)	2	E	0		0	2	4,5						2+0+0		2+0+0
IP-18fKVKRBG	Cryptography and security	IP-18fDM1E	0		2	PG	1	3	4,5						0+2+1		0+2+1
IP-18fKVBGTE	Introduction to machine learning	IP-18fMATAG	2	E	0		1	3	3					2+0+1			
IP-18fKVPREE	Programming theory	IP-18fKVFPG (weak)	2	E	0		0	2	3,5					2+0+0		2+0+0	
IP-18fKVPREG	Programming theory	IP-18fMATAG	0		2	PG	1	3	3,5					0+2+1		0+2+1	
IP-18KVfPRJG	Tools of software projects	IP-18fPNY1EG	0		2	PG	0	2	6								0+2+0
IP-18fKVFPE	Compilers	IP-18fKVFPG (weak)	2	E			1	3	5							2+0+1	
IP-18fKVFPG	Compilers	IP-18fPNY1EG	0		2	PG	0	2	5							0+2+0	
IP-18fKVADA	ADA	IP-18fPNY1EG	2	X	2	PG	1	5	5,6							2+2+1	2+2+1
	Electives in semester							**23**						**9**	**0**	**6**	**8**
	Obligatorys+Electives in semester							**150**				29	30	31	22	30	8
	Optional course							**10**							8		2
IP-18FSZD	**Diploma work consultations**							**20**									20
	Summa credit in semester											**29**	**30**	**31**	**30**	**30**	**30**
	Summa credit							**180**									