

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

								Semester							
Subject Code	Subject	Lecture (L)	Practice (Pr)	Laboratory	Consultation	Form of assessment	Credit	Recommended Semester	Prerequisite	1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester
ELTE-OI-AI	Start wAltless - Introduction to the use of Artificial Intelligence in Higher Education	0	0	0	0		0	1		online course					
IP-18fSZGREG	Computer systems	2	0	2	1	XCP	5	1		2+0+2+1					
IP-18fPROGEG	Programming	2	0	3	1	XCP	6	1		2+0+3+1					
IP-18fIMPROGEG	Imperative programming	2	0	3	0	XCP	5	1		2+0+3+0					
IP-18fFUNPEG	Functional programming	2	0	2	1	XE	5	1		2+0+2+1					
IP-18fMATAG	Basic Mathematics	0	4	0	0	CP	4	1		0+4+0+0					
IP-18fTMKG	Learning Methodology	0	1	0	0	P	1	1		0+1+0+0					
IP-18fIVMEG	Business fundamentals	1	2	0	0	XP	3	1		1+2+0+0					
IP-18fPNYEG	Programming languages	2	0	2	2	XCP	6	2	IP-18fIMPROGEG		2+0+2+2				
IP-18fOEPROGEG	Object-oriented programming	2	0	3	1	XCP	6	2	IP-18fPROGEG		2+0+3+1				
IP-18fWF1EG	Web development	1	0	2	0	XCP	3	2	IP-18fSZGREG (weak)		1+0+2+0				
IP-18fAA1E	Algorithms and data structures I	2	0	0	0	E	2	2	IP-18fAA1G (weak)		2+0+0+0				

IP-18fAA1G	Algorithms and data structures I	0	2	0	1	P	3	2	IP-18fPROGEG or IP-18fIMPROGEG		0+2+0+1				
IP-18fDM1E	Discrete mathematics I	2	0	0	0	E	2	2	IP-18fDM1G (weak)		2+0+0+0				
IP-18fDM1G	Discrete mathematics I	0	2	0	1	CP	3	2	IP-18fMATAG		0+2+0+1				
IP-18fAN1E	Analysis I	2	0	0	0	E	2	2	IP-18fAN1G (weak)		2+0+0+0				
IP-18fAN1G	Analysis I	0	2	0	1	P	3	2	IP-18fMATAG		0+2+0+1				
IP-18fAA2E	Algorithms and data structures II	2	0	0	0	E	2	3	IP-18fAA2G (weak)			2+0+0+0			
IP-18fAA2G	Algorithms and data structures II	0	2	0	1	P	3	3	IP-18fAA1E			0+2+0+1			
IP-18fWPEG	Web programming	1	0	2	1	XCP	4	3	IP-18fWF1EG			1+0+2+1			
IP-18fPROGTEG	Programming technology	2	0	2	1	XCP	5	3	IP-18fOEPROGEG			2+0+2+1			
IP-18fAN2E	Analysis II	2	0	0	0	E	2	3	IP-18fAN2G (weak)			2+0+0+0			
IP-18fAN2G	Analysis II	0	2	0	1	P	3	3	IP-18fAN1E			0+2+0+1			
IP-18fDMAG	Application of discrete models	0	0	2	1	P	3	3	IP-18fDM1E			0+0+2+1			
IP-18fOPREG	Operating systems	1	0	1	1	XP	3	4	IP-18fSZGREG				1++0+1+1		
IP-18fAB1E	Databases I	2	0	0	0	E	2	4	IP-18fAB1G (weak)				2+0+0+0		
IP-18fAB1G	Databases I	0	0	2	0	P	2	4	IP-18fAA1E				0+0+2+0		
IP-18fSZTE	Software technology***	2	0	0	0	E	2	4	IP-18fSZTG (weak)				2+0+0+0		
IP-18fSZTG	Software technology ***	0	0	2	1	P	3	4	IP-18fPROGTEG				0+0+2+1		
IP-18fSZTEG	Software technology	2	0	2	1	XCP	5	4	IP-18fPROGTEG				2+0+2+1		
IP-18fSZA1E	Fundamentals of theory of computation I	2	0	0	0	E	2	4	IP-18fSZA1G (weak)				2+0+0+0		
IP-18fSZA1G	Fundamentals of theory of computation I	0	2	0	1	P	3	4	IP-18fDM1E				0+2+0+1		

IP-18fNM1E	Numerical methods	2	0	0	0	E	2	4	IP-18fNM1G (weak)					2+0+0+0		
IP-18fNM1G	Numerical methods	0	2	0	1	P	3	4	IP-18fAN2E					0+2+0+1		
IP-18fKPROGEG	Concurrent programming	1	0	1	1	XCP	3	5	IP-18fPNYEG						1+0+1+1	
IP-18fTKHE	Telecommunication networks	2	0	0	0	E	2	5	IP-18fTKHG (weak)						2+0+0+0	
IP-18fTKHG	Telecommunication networks		0	2	1	P	3	5	IP-18fOEPROGEG						0+0+2+1	
IP-18fMIAE	Artificial intelligence	2	0	0	1	E	3	5							2+0+0+1	
IP-18fAB2E	Databases II	2	0	0	0	E	2	5	IP-18fAB2G						2+0+0+0	
IP-18fAB2G	Databases II	0	0	2	1	P	3	5	IP-18fAB1E						0+0+2+1	
IP-18fSZA2E	Fundamentals of theory of computation II	2	0	0	0	E	2	5	IP-18fSZA2G (weak)						2+0+0+0	
IP-18fSZA2G	Fundamentals of theory of computation II	0	2	0	1	P	3	5	IP-18fSZA1E						0+2+0+1	
IP-18fVSZG	Probability and statistics	0	0	2	1	P	3	5	IP-18fAN2E						0+0+2+1	
	Compulsories						127			29	30	22	22	24		
	Compulsory Electives:															
IP-18fKVGPU EG	GPU programming****	1	0	2	0	XP	3	3,4,5	IP-18fMATAG			1+0+2+0	1+0+2+0	1+0+2+0		
IP-18fKVKRBE	Cryptography and security	2	0	0	0	E	2	4,6	IP-18fKVKR BG (weak)				2+0+0+0		2+0+0+0	
IP-18fKVKR BG	Cryptography and security	0	0	2	1	P	3	4,6	IP-18fDMAG				0+0+2+1		0+0+2+1	
IP-18fKVBGTE	Introduction to machine learning	2	0	0	1	E	3	3	IP-18fMATAG			2+0+0+1				
IP-18fKVPRE E	Programming theory	2	0	0	0	E	2	3,5	IP-18fKVPRE G (weak)			2+0+0+0		2+0+0+0		
IP-18fKVPRE G	Programming theory	0	2	0	1	P	3	3,5	IP-18fMATAG			0+2+0+1		0+2+0+1		
IP-18KVPRJG	Tools of software projects	0	2	0	1	CP	3	5	IP-18fPNYEG					0+2+0+1		
IP-18fKVFPE	Compilers	2	0	0	1	E	3	5	IP-18fKVFP G (weak)					2+0+0+1		
IP-18fKVFP G	Compilers	0	0	2	0	P	2	5	IP-18fOEPROGEG					0+0+2+0		

IP-18fKVADA	ADA	2	0	2	1	XP	5	5,6	IP-18fIMPROGEG					2+0+2+1	2+0+2+1
IP-18fKVPYEG	Python	2	0	2	1	XE	5	3,4,5,6				2+0+2+1	2+0+2+1	2+0+2+1	2+0+2+1
IP-18fKVIADSE	Applied Data Science	2	0	0	0	E	2	3,5				2+0+0+0		2+0+0+0	
IP-24fKVSZKBIZTE	Cybersecurity basic	2	0	0	2	E	4	2	IP-18fWF1EG (weak)		2+0+0+2				
IP-24fKVSZGE	Computer graphics	2	0	0	1	E	3	3,5	IP-24fKVSZGG (weak)			2+0+0+1		2+0+0+1	
IP-24fKVSZGG	Computer graphics	0	0	2	1	P	3	3,5	IP-18fMATAG, IP-18fIMPROGEG			0+0+2+1		0+0+2+1	
IP-24fKVKHSZGG	Intermediate Computer Graphics	0	0	2	1	P	3	4,6	IP-24fKVSZGG				0+0+2+1		0+0+2+1
IP-24fKVNFAEG	Native cloud computing applications	2	0	2	1	XE	5	4,5,6	IP-18fKVPYEG				2+0+2+1	2+0+2+1	2+0+2+1
IP-24fKVHWPEG	Advanced web programming	2	0	2	1	XPG	5	4,6	IP-18fWPEG				2+0+2+1		2+0+2+2
	Compulsory electives						23					9	0	6	8
	Compulsories + compulsory electives						150			29	30	31	22	30	8
	Electives						10						8		2
IP-24fSZD	Thesis consultation						20								20
	Summa credit in semester									29	30	31	30	30	30
	Summa credit						180								

*** Discontinued subject

P: form of assessment is practice grade

E: form of assessment is Exam

C: Practice with continuous assessment (at least 5 independent tests/assessments during the study period)

X: mixed subject (lecture + practice)

End of the subject code:

EG: Lecture + Practice course under the same subject code

E: Lecture

G: Practice