

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

Subject Code	Subject	Lecture (L)	Practice (Pr)	Laboratory	Consultation	Form of assessment	Credit	Recommended Semester	Előfeltétel 1	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	XCP	1	5	1		2+0+2+1					
IP-18fPROGEG	Programming	2	0	3	XCP	1	6	1		2+0+3+1					
IP-18fIMPROGEG	Imperative programming	2	0	3	XCP	0	5	1		2+0+3+0					
IP-18fFUNPEG	Functional programming	2	0	2	XE	1	5	1		2+0+2+1					
IP-18fMATAG	Basic Mathematics	0	4	0	CP	0	4	1		0+4+0+0					
IP-18fTMKG	Learning Methodology	0	1	0	P	0	1	1		0+1+0+0					
IP-18fIVMEG	Business fundamentals	1	2	0	XP	0	3	1		1+2+0+0					
IP-18fPNYEG	Programming languages	2	0	2	XCP	2	6	2	IP-18fIMPROGEG		2+0+2+2				
IP-18fOEPROGEG	Object-oriented programming	2	0	3	XCP	1	6	3	IP-18fPROGEG			2+0+3+1			

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

IP-18fAB1G	Databases I	0	0	2	P	0	2	5	IP-18fAA1E					0+0+2+0	
IP-18fSZTEG	Software technology	2	0	2	CA	1	5	5	IP-18fPROGTEG					2+0+2+1	
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	E	0	2	5	IP-18fSZA1G (weak)					2+0+0+0	
IP-18fSZA1G	Fundamentals of theory of computation I	0	2	0	P	1	3	5	IP-18fDM1E					0+2+0+1	
IP-18fNM1E	Numerical methods	2	0	0	E	0	2	5	IP-18fNM1G (weak)					2+0+0+0	
IP-18fNM1G	Numerical methods	0	2	0	P	1	3	5	IP-18fAN2E					0+2+0+1	
IP-18fKPROGEG	Concurrent programming	1	0	1	XCP	1	3	4	IP-18fPNYEG				1+0+1+1		
IP-18fTKHE	Telecommunication networks	2	0	0	E	0	2	4	IP-18fTKHG (weak)				2+0+0+0		
IP-18fTKHG	Telecommunication networks		0	2	P	1	3	4	IP-18fOEPROGEG				0+0+2+1		
IP-18fMIAE	Artificial intelligence	2	0	0	E	1	3	4					2+0+0+1		
IP-18fAB2E	Databases II	2	0	0	E	0	2	6	IP-18fAB2G						2+0+0+0
IP-18fAB2G	Databases II	0	0	2	P	1	3	6	IP-18fAB1E						0+0+2+1
IP-18fSZA2E	Fundamentals of theory of computation II	2	0	0	E	0	2	6	IP-18fSZA2G (weak)						2+0+0+0
IP-18fSZA2G	Fundamentals of theory of computation II	0	2	0	P	1	3	6	IP-18fSZA1E						0+2+0+1
IP-18fVSZG	Probability and statistics	0	0	2	P	1	3	4	IP-18fAN2E				0+0+2+1		
	Compulsories						127			29	24	16	26	22	10

	Compulsory Electives:														
IP-18fKVKRBE	Cryptography and security	2	0	0	E	0	2	3,5	IP-18fKVKRBG (weak)			2+0+0+0		2+0+0+0	
IP-18fKVKRBG	Cryptography and security	0	0	2	P	1	3	3,5	IP-18fDMAG			0+0+2+1		0+0+2+1	
IP-18fKVBGTE	Introduction to machine learning	2	0	0	E	1	3	4	IP-18fMATAG				2+0+0+1		2+0+0+1
IP-18fKVPREE	Programming theory	2	0	0	E	0	2	3,4,5	IP-18fKVPREG (weak)			2+0+0+0	2+0+0+0	2+0+0+0	2+0+0+0
IP-18fKVPREG	Programming theory	0	2	0	P	1	3	3,4,5	IP-18fMATAG			0+2+0+1	0+2+0+1	0+2+0+1	0+2+0+1
IP-18KVPRJG	Tools of software projects	0	2	0	CP	1	3	4	IP-18fPNYEG				0+2+0+1		0+2+0+1
IP-18fKVFPE	Compilers	2	0	0	E	1	3	4	IP-18fKVFPG (weak)				2+0+0+1		2+0+0+1
IP-18fKVFPG	Compilers	0	0	2	P	0	2	4	IP-18fOEPROGEG				0+0+2+0		0+0+2+0
IP-18fKVADA	ADA	2	0	2	XP	1	5	4,5,6	IP-18fOEPROGEG				2+0+2+1	2+0+2+1	2+0+2+1
IP-18KVPLYEG	Python	2	0	2	E	1	5	3,4,5,6				2+0+2+1	2+0+2+1	2+0+2+1	2+0+2+1
IP-18KVIADSE	Applied Data Science	2	0	0	E	0	2	3,5					2+0+0+0		2+0+0+0
IP-24fKVSZGE	Computer graphics	2	0	0	1	E	3	2,4	IP-24fKVSZGG (weak)		2+0+0+1		2+0+0+1		
IP-24fKVSZGG	Computer graphics	0	0	2	1	P	3	2,4	IP-18fMATAG, IP-18fIMPROGEG		0+0+2+1		0+0+2+1		
IP-24fKVKHSZGG	Intermediate Computer Graphics	0	0	2	1	P	3	3,5	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	6	IP-18fWPEG						2+0+2+2
	Erasmus credits						20							20	
	Compulsory electives						23					10	5	8	0

	Compulsories + compulsory electives						150			29	24	26	31	30	0
	Electives						10				6	4			0
IP-24fSZD	Diploma work consultations						20								20
	Summa credit in semester									29	30	30	31	30	30
	Summa credit						180								

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