

## 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
IP-18fSZGREG	<a href="#">Computer systems</a>	2	0	2	XCP	1	5	1		2+0+2+1					
IP-18fPROGEG	<a href="#">Programming</a>	2	0	3	XCP	1	6	1		2+0+3+1					
IP-18fIMPROGEG	<a href="#">Imperative programming</a>	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	<a href="#">Basic Mathematics</a>	0	4	0	CP	0	4	1		0+4+0+0					
IP-18fTMKG	<a href="#">Learning Methodology</a>	0	1	0	P	0	1	1		0+1+0+0					
IP-18fIVMEG	<a href="#">Business fundamentals</a>	1	2	0	XP	0	3	1		1+2+0+0					
IP-18fPNYEG	<a href="#">Programming languages</a>	2	0	2	XCP	2	6	2	IP-18fIMPROGEG		2+0+2+2				
IP-18fOEPROGEG	<a href="#">Object-oriented programming</a>	2	0	3	XCP	1	6	3	IP-18fPROGEG			2+0+3+1			
IP-18fWF1EG	<a href="#">Web development</a>	1	0	2	XCP	0	3	2	IP-18fSZGREG (weak)		1+0+2+0				

IP-18fAA1E	<a href="#">Algorithms and data structures I</a>	2	0	0	E	0	2	2	IP-18fAA1G (weak)		2+0+0+0				
IP-18fAA1G	<a href="#">Algorithms and data structures I</a>	0	2	0	P	1	3	2	IP-18fMATAG, IP-18fPROGEG		0+2+0+1				
IP-18fDM1E	<a href="#">Discrete mathematics I</a>	2	0	0	E	0	2	2	IP-18fDM1G (weak)		2+0+0+0				
IP-18fDM1G	<a href="#">Discrete mathematics I</a>	0	2	0	CP	1	3	2	IP-18fMATAG		0+2+0+1				
IP-18fAN1E	<a href="#">Analysis I</a>	2	0	0	E	0	2	2	IP-18fAN1G (weak)		2+0+0+0				
IP-18fAN1G	<a href="#">Analysis I</a>	0	2	0	P	1	3	2	IP-18fMATAG		0+2+0+1				
IP-18fAA2E	<a href="#">Algorithms and data structures II</a>	2	0	0	E	0	2	3	IP-18fAA2G (weak)			2+0+0+0			
IP-18fAA2G	<a href="#">Algorithms and data structures II</a>	0	2	0	P	1	3	3	IP-18fAA1E			0+2+0+1			
IP-18fWPEG	<a href="#">Web programming</a>	1	0	2	XCP	1	4	4	IP-18fWF1EG				1+0+2+1		
IP-18fPROGTEG	<a href="#">Programming technology</a>	2	0	2	XCP	1	5	4	IP-18fOEPROGEG				2+0+2+1		
IP-18fAN2E	<a href="#">Analysis II</a>	2	0	0	E	0	2	3	IP-18fAN2G (weak)			2+0+0+0			
IP-18fAN2G	<a href="#">Analysis II</a>	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	<a href="#">Operating systems</a>	1	0	1	XP	1	3	5	IP-18fSZGREG					1++0+1+1	
IP-18fAB1E	<a href="#">Databases I</a>	2	0	0	E	0	2	5	IP-18fAB1G (weak)					2+0+0+0	
IP-18fAB1G	<a href="#">Databases I</a>	0	0	2	P	0	2	5	IP-18fAA1E					0+0+2+0	
IP-18fSZTEG	<a href="#">Software technology</a>	2	0	2	CA	1	5	5	IP-18fPROGTEG					2+0+2+1	

IP-18fSZTG	<a href="#">Software technology ***</a>	0	0	2	1	P	3	4	IP-18fPROGTEG					0+0+2+1	
IP-18fSZTEG	<a href="#">Software technology</a>	2	0	2	1	XCP	5	4	IP-18fPROGTEG					2+0+2+1	
IP-18fSZA1E	<a href="#">Fundamentals of theory of computation I</a>	2	0	0	E	0	2	5	IP-18fSZA1G (weak)					2+0+0+0	
IP-18fSZA1G	<a href="#">Fundamentals of theory of computation I</a>	0	2	0	P	1	3	5	IP-18fDM1E					0+2+0+1	
IP-18fNM1E	<a href="#">Numerical methods</a>	2	0	0	E	0	2	5	IP-18fNM1G (weak)					2+0+0+0	
IP-18fNM1G	<a href="#">Numerical methods</a>	0	2	0	P	1	3	5	IP-18fAN2E					0+2+0+1	
IP-18fKPROGEG	<a href="#">Concurrent programming</a>	1	0	1	XCP	1	3	4	IP-18fPNYEG				1+0+1+1		
IP-18fTKHE	<a href="#">Telecommunication networks</a>	2	0	0	E	0	2	4	IP-18fTKHG (weak)				2+0+0+0		
IP-18fTKHG	<a href="#">Telecommunication networks</a>		0	2	P	1	3	4	IP-18fOEPROGEG				0+0+2+1		
IP-18fMIAE	<a href="#">Artificial intelligence</a>	2	0	0	E	1	3	4	IP-18fAA2E (weak)				2+0+0+1		
IP-18fAB2E	<a href="#">Databases II</a>	2	0	0	E	0	2	6	IP-18fAB2G					2+0+0+0	
IP-18fAB2G	<a href="#">Databases II</a>	0	0	2	P	1	3	6	IP-18fAB1E					0+0+2+1	
IP-18fSZA2E	<a href="#">Fundamentals of theory of computation II</a>	2	0	0	E	0	2	6	IP-18fSZA2G (weak)					2+0+0+0	
IP-18fSZA2G	<a href="#">Fundamentals of theory of computation II</a>	0	2	0	P	1	3	6	IP-18fSZA1E					0+2+0+1	
IP-18fVSZG	<a href="#">Probability and statistics</a>	0	0	2	P	1	3	4	IP-18fAN2E				0+0+2+1		
	<b>Compulsories</b>						<b>127</b>			<b>29</b>	<b>24</b>	<b>16</b>	<b>26</b>	<b>22</b>	<b>10</b>
	<b>Compulsory Electives:</b>														
IP-18fKVKRBE	<a href="#">Cryptography and security</a>	2	0	0	E	0	2	3,5	IP-18fKVKRBG (weak)			2+0+0+0		2+0+0+0	

IP-18fKVKRBG	<a href="#">Cryptography and security</a>	0	0	2	P	1	3	3,5	IP-18fDMAG			0+0+2+1		0+0+2+1	
IP-18fKVBGTE	<a href="#">Introduction to machine learning</a>	2	0	0	E	1	3	4	IP-18fMATAG				2+0+0+1		2+0+0+1
IP-18fKVPREE	<a href="#">Programming theory</a>	2	0	0	E	0	2	3,4,5	IP-18fKVFPG (weak)			2+0+0+0	2+0+0+0	2+0+0+0	2+0+0+0
IP-18fKVPREG	<a href="#">Programming theory</a>	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	<a href="#">Tools of software projects</a>	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-18KVPEYEG	<a href="#">Python</a>	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	<a href="#">Applied Data Science</a>	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	<b>XE</b>	5	4,5,6	IP-18fKVPEYEG				2+0+2+1	2+0+2+1	2+0+2+1
IP-24fKVHWPEG	Advanced web programming	2	0	2	1	<b>XPG</b>	5	6	IP-18fWPEG						2+0+2+2
	<b>Erasmus credits</b>						20								20
	<b>Compulsory electives</b>						23					10	5	8	0
	<b>Compulsories + compulsory electives</b>						150			29	24	26	31	30	0
	<b>Electives</b>						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**