Computer Science BSc 2022 (in English, for Foreign students) starting in Autumn with Erasmus Mobility

Completing Erasmus mobility is suggested for the 4th semester, so please find the suggested curriculum in case you plan an Erasmus trip. It is important to submit the Thesis Registration Form, approved by the thesis supervisor, already at the end of the 4th semester, til 1st of June, to have enough time during the next 2 semesters to complete your thesis. Thesis consultation course is suggested to be registered and completed in the 6th semester.

Code	Course	Előfeltétel 1	Lecture (L)	Exam €	Practice (Pr	Labor	Practice Grade (PG)	Consultation	Credit	Semester	1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester
IP-18fSZGREG	Computer systems		2	X	0	2	CA	1	5	1	2+0+2+1					
IP-18fPROGEG	Programming		2	X	0	3	CA	1	6	1	2+0+3+1					
IP-18fIMPROGEG	Imperative programming		2	X	0	3	CA	0	5	1	2+0+3+0					
IP-18fFUNPEG	Functional programming		2	E	0	2		1	5	1	2+0+2+1					
IP-18fMATAG	Basic Mathematics		0		4	0	PG	0	4	1	0+4+0+0					
IP-18fTMKG	Learning Methodology		0		1	0	PG	0	1	1	0+1+0+0					
IP-18fIVMEG	Business fundamentals		1	X	2	0	PG	0	3	1	1+2+0+0					
IP-18fPNYEG	Programming languages	IP-18fIMPROGEG	2	X	0	2	CA	2	6	2		2+0+2+2				
IP-18fOEPROGEG	Object-oriented programming	IP-18fPROGEG	2	X	0	3	CA	1	6	2		2+0+3+1				

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

IP-18fMIAE	Artificial intelligence		2	E	0	0		1	3	3			2+0+0+1			
IP-18fSZEA1E	Fundamentals of theory of computation I	IP-18fSZEA1G (weak)	2	E	0	0		0	2	4				2+0+0+0 online		
IP-18fSZEA1G	Fundamentals of theory of computation I	IP-18fDM1E	0		2	0	PG	1	3	4				0+2+0+1 online		
IP-18fKPROGEG	Concurrent programming	IP-18fPNYEG	1		0	1	CA	1	3	5					1+0+1+1	
IP-18fTKHE	Telecommunication networks	IP-18fTKHG (weak)	2	E	0	0		0	2	5					2+0+0+0	
IP-18fTKHG	Telecommunication networks	IP-18fOEPROGEG			0	2	PG	1	3	5					0+0+2+1	
IP-18fAB2E	Databases II	IP-18fAB2G	2	E	0	0		0	2	5					2+0+0+0	
IP-18fAB2G	Databases II	IP-18fAB1E	0		0	2	PG	1	3	5					0+0+2+1	
IP-18fSZEA2E	Fundamentals of theory of computation II	IP-18fSZEA2G (weak)	2	E	0	0		0	2	5					2+0+0+0	
IP-18fSZEA2G	Fundamentals of theory of computation II	IP-18fSZEA1E	0		2	0	PG	1	3	5					0+2+0+1	
IP-18fVSZG	Probability and statistics	IP-18fAN2E	0		0	2	PG	1	3	5					0+0+2+1	
IP-18fNM1E	Numerical methods	IP-18fNM1G (weak)	2	E	0	0		0	2	6						2+0+0+0
IP-18fNM1G	Numerical methods	IP-18fAN2E	0		2	0	PG	1	3	6						0+2+0+1
IP-18fOPREG	Operating systems	IP-18fSZGREG	1	X	0	1	PG	1	3	6						1++0+1+1
IP-18fSZTEG	Sotfware technology	IP-18fPROGTEG	2		0	2	CA	1	5	6						2+0+2+1
	Obligatory in semester								**127**		**29**	**34**	**25**	**5**	**21**	**13**
	Electives:															
IP-18fERASMUS	Erasmus block									4				max. 20		

IP-18fKVGPUEG	GPU programming****	IP-18fMATAG	1	X	0	2	PG	0	3	3,4,5			1+0+2+0	1+0+2+0	1+0+2+0	
IP-18fKVKRBE	Cryptography and security	IP-18fKVKRBG (weak)	2	E	0	0		0	2	4,5				2+0+0+0		2+0+0+0
IP-18fKVKRBG	Cryptography and security	IP-18fDMAG	0		0	2	PG	1	3	4,5				0+0+2+1		0+0+2+1
IP-18fKVBGTE	Introduction to machine learning	IP-18fMATAG	2	E	0	0		1	3	3			2+0+0+1			
IP-18fKVPREE	Programming theory	IP-18fKVFPG (weak)	2	E	0	0		0	2	3,5			2+0+0+0		2+0+0+0	
IP-18fKVPREG	Programming theory	IP-18fMATAG	0		2	0	PG	1	3	3,5			0+2+0+1		0+2+0+1	
IP-18KVPRJG	Tools of software projects	IP-18fPNYEG	0		2	0	CA	1	3	5					0+2+0+1	
IP-18fKVFPE	Compilers	IP-18fKVFPG (weak)	2	E	0	0		1	3	5					2+0+0+1	
IP-18fKVFPG	Compilers	IP-18fOEPROGEG	0		0	2	PG	0	2	5					0+0+2+0	
IP-18fKVADA	ADA	IP-18fOEPROGEG	2	X	0	2	PG	1	5	5,6					2+0+2+1	2+0+2+1
IP-18KVPYEG	Python		2	E	0	2		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	E	0	0		0	2	3,5			2+0+0+0		2+0+0+0	
IP-24fKVNFIAEG	Native cloud computing applications	IP-18fKVPYEG	2	E	0	2	XE	1	5	4,5,6				2+0+2+1	2+02+1	2+0+2+1
IP-24fKVHWPEG	Advanced web programming	IP-18fWPEG	2		0	2	XPG	1	5	4,6				2+0+2+1		2+0+2+2
	Electives in semester								**23**				**3**	**0**	**0**	**0**
	Obligatorys+Electives in semester								**150**		**29**	**30**	**28**	**20**	**21**	**13**
	Optional course								**10**					10		
IP-18FSZD	**Diploma work consultations**								**20**							20
	Summa credit in semester										**29**	**34**	**28**	**35**	**21**	**33**
	Summa credit								**180**							

***** Discontinued subject**

CA: Practice with continuous assessment