

Computer Science MSc (Fintech specialization, 2024)

Core Courses

Code	Courses	Lecture (L)	Practice (Pr)	Labor	Consultation	Requirement	Credit	Semester	Subject requirement	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-22fRMEG	Research methodology L+Pr.*	1	2	0	1	PG	5	1		1+2+0+1			
IPM-22fASTE	Advanced Software Technology L.*	2	0	0	2	E	4	2			2+0+0+2		
IPM-22fDAAE	Design and analysis of algorithms L.*	2	0	0	2	E	4	2			2+0+0+2		
IPM-22fPRG	Internship						0	2-4					240 hours
	Core course credits						13			5	8		

Compulsory Courses of the Specialization

Code	Courses	Lecture (L)	Practice (Pr)	Labor	Consultation	Requirement	Credit	Semester	Subject requirement	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-22fIDSEG	Introduction to Data Science*	2	0	2	2	XE	6	1		2+0+2+2			
IPM-22fpiIFE	Introduction to Finance*	2	0	0	0	E	2	1	IPM-22fpiIFG (weak)	2+0+0+0			
IPM-22fpiIFG	Introduction to Finance*	0	0	2	1	PG	3	1		0+0+2+1			
IPM-24fpiMFCE	Mathematical foundation of cryptocurrencies	2	0	0	2	E	4	1		2+0+0+2			
IPM-22fpiCISE	Complex information systems*	2	0	0	1	E	3	2	IPM-22fpiCISG (weak)		2+0+0+1		
IPM-22fpiCISG	Complex information systems*	0	0	2	1	PG	3	2			0+0+2+1		

IPM-22fpiSESCE	Service Science*	2	0	0	1	E	3	2	IPM-22fpiSESCG (weak)		2+0+0+1		
IPM-22fpiSESCG	Service Science*	0	0	2	1	PG	3	2			0+0+2+1		
IPM-22fpiBIE	Business Intelligence and Data Visualization*	2	0	0	1	E	3	3	IPM-22fpiBIG (weak)			2+0+0+1	
IPM-22fpiBIG	Business Intelligence and Data Visualization*	0	0	2	1	PG	3	3				0+0+2+1	
IPM-22fpiDFISE	Development of Financial IT Systems*	2	0	0	1	E	3	3	IPM-22fpiDFISG (weak)			2+0+0+1	
IPM-22fpiDFISG	Development of Financial IT Systems*	0	0	2	1	PG	3	3				0+0+2+1	
IPM-22fpiFTLAB1	Fintech Lab I*	0	0	2	2	PG	4	3				0+0+2+2	
IPM-22fpiFTLAB2	Fintech Lab II.	0	0	4	2	PG	6	3				0+0+4+2	
	Compulsory course credits						45				11	12	22
	Compulsory elective courses credits						26				14	5	7
IPM-22fERASMUS	Erasmus mobility						max 24 credits	3					max 24 credits
	Optional course						6	2,3			5+0+0	1+0+0	
IPM-22fTHCONS	Thesis consultation				10	PG	30	4					signature
	Summa credit in semester										30	30	30
	Summa credit						120						

Compulsory elective courses

Code	Courses	Lecture (L)	Practice (Pr)	Labor	Consultation	Requirement	Credit	Semester	Subject requirement	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-22fpiDNDEG	Deep Network Development	2	0	2	0	XE	6	1		2+0+2+2			
IPM-22fpiPAIEG	Principles of artificial intelligence	2	0	2	2	XE	6	1		2+0+2+2			

IPM-22fpiPCMSG	Preparation course for master studies and developing learning skills*	0	3	0	0	PG	2	1		0+3+0+0			
IPM-24fpiPETEG	Privacy enhancing technologies	1	1	0	2	XE	4	1		1+1+0+2			
IPM-22fpiDMDBE	Data models and databases	2	0	0	1	E	2	2	IPM-22fpiDMDBG (weak)		2+0+0+1		
IPM-22fpiDMDBG	Data models and databases	0	0	2	1	PG	2	2			0+0+2+1		
IPM-22fpiDRLEG	Deep Reinforcement Learning	2	0	2	2	XE	6	1			2+0+2+2		
IPM-22fpiISPEG	Information Security and Privacy	2	0	2	2	XE	6	2			2+0+2+2		
IPM-22fpiMLEG	Machine Learning	2	0	2	2	XE	6	2	IPM-22fpiDSEG		2+0+2+2		
IPM-24fpiVASG	Vulnerability analysis seminar	0	2	0	2	PG	4	2			0+2+0+2		
IPM-22fpiADNDEG	Advanced Deep Network Development	2	0	2	2	XE	6	3	IPM-22fpiDNDEG			2+0+2+2	
IPM-22fmiACEG	Affective computing	2	0	2	2	XE	6	3				2+0+2+2	
IPM-22fpiCOSCEG	Cognitive Science	2	2	0	2	XE	6	3				2+2+0+2	
IPM-22fpiCOLLIEG	Collective Intelligence	2	0	2	2	PG	6	3				2+0+2+2	
IPM-22fpiCIEG	Computational Intelligence	2	0	2	2	XE	6	3				2+0+2+2	
IPM-22fatNSEG	Network Science	2	2	0	2	XE	6	3				2+2+0+2	
IPM-22fpiPME	Project Management	2	0	0	0	E	2	1,3		2+0+0+0		2+0+0+0	

I&E modul													
Code	Courses	Lecture (L)	Practice (Pr)	Labor	Consultation	Requirement	Credit	Semester	Subject requirement	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-22fi&EBEG	I&E Basics	2	2	0	2	XPG	6	1		2+2+0+2			
IPM-22fi&EBDL1G	Business Development Lab I.	0	2	0	2	PG	4	1		0+2+0+2			
IPM-22fi&EBDL2G	Business Development Lab II.	0	2	0	2	PG	4	2			0+2+0+2		
IPM-22fi&EIAOEEG	Innosocial aspects of the entrepreneurship	2	2	0	2	XPG	6	2			2+2+0+2		

IPM-22fi&ETSSG	Thematic Summer Schools with I&E project	1	1	0	2	XPG	4	2			1+1+0+2			
IPM-22fi&ESTEG	I&E Study	2	2	0	2	XPG	6	3				2+2+0+2		
	Summa credit in semester										30	30	30	30
	Summa credit						120							

PG: Practice Grade E: Exam Grade XPG: Lecture+Practice with Practical Grade XE: Lecture+Practice with Exam

- Az EIT-es hallgatók számára I&E modul mellett a *-gal megjelölt tárgyak elvégzése kötelező.
- A hallgatók a Fintech Lab I. és II. teljesítésével kiváltják a szakmai gyakorlatot.
- Az EIT-s hallgatók az utolsó félévükben végzik a szakmai gyakorlatot a diplomamunka készítésével párhuzamosan

- EIT students are required to complete the Innovation&Entrepreneurship (I&E) module and required to complete all subjects indicated by asterisk (*) in the sample curriculum of the specialization.
- Computer Science Master course students with Fintech specialization are entitled to fulfill the requirements of the internship by the completion of Fintech Lab I. and Lab II. courses
- EIT students fulfill the requirements of the internship and complete their thesis work (parallelly), in the last semester of their academic studies.