

Computer Science MSc (Cybersecurity specialization 2020)

Core Courses

Code	Courses	Subject requirement	Lecture (L)	Exam (E)	Labor	Practice (Pr)	Practice Grade (PG)	Consultation	Credit	Semester	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-20fIDSEG	Intorduction to Data Science		2	X	2	0		1	5	1	2+2+0+1			
IPM-20fSTEG	Software Technology		2	X	0	2	CA	1	5	1	2+0+2+1			
IPM-20fWATEG	Web engineering*		2	X	2	0	CA	1	5	2		2+2+0+1		
IPM-20fPRG	Internship								0	2-4				240 hours
	Core course credits								15		10	5		

Obligatory courses

Code	Courses	Subject requirement	Lecture (L)	Exam (E)	Labor	Practice (Pr)	Practice Grade (PG)	Consultation	Credit	Semester	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-18fkbCGE	Cryptography		2	E	0	0		0	2	1	2+0+0+0			
IPM-18fkbCGG	Cryptography		0		0	2	PG	1	3	1	0+0+2+1			
IPM-18fkbICSE	Introduction to Computer Security		2	E	0	0		0	2	1	2+0+0+0			
IPM-18fkbICSG	Introduction to Computer Security		0		2	0	PG	1	3	1	0+2+0+1			
IPM-18fkbMCE	Models of Computation*		2	E	0	0		0	2	1	2+0+0+0			

IPM-18fkbMCG	Models of Computation*		0		0	2	PG	1	3	1	0+0+2+1			
IPM-18fkbISME	Information Security Management		2	E	0	0		0	2	2		2+0+0+0		
IPM-20fkbISMG	Information Security Management		0		2	0	PG	0	2	2		0+2+0+0		
IPM-18fkbNSSE	Network and System Security		2	E	0	0		0	2	2		2+0+0+0		
IPM-18fkbNSSG	Network and System Security		0		2	0	PG	2	4	2		0+2+0+2		
IPM-18fkbPYE	Privacy		2	E	0	0		0	2	2		2+0+0+0		
IPM-18fkbPYG	Privacy		0		2	0	PG	2	4	2		0+2+0+2		
IPM-18fkbSQTE	Software quality and testing*		2	E	0	0		0	2	2		2+0+0+0		
IPM-18fkbSQTG	Software quality and testing*		0		2	0	PG	1	3	2		0+2+0+1		
IPM-18fkbACRE	Advanced cryptography		2	E	0	0		0	2	3			2+0+0+0	
IPM-18fkbACRG	Advanced cryptography		0		0	2	PG	2	4	3			0+0+2+2	
IPM-18fkbACRPSE	Applied cryptography project seminar		2	E	0	0		0	2	3			2+0+0+0	
IPM-18fkbACRPSG	Applied cryptography project seminar		0		0	2	PG	2	4	3			0+0+2+2	
IPM-18fkbCRAE	Cryptography and its applications****		2	E	0	0		0	2	3			2+0+0+0	
IPM-18fkbCRAG	Cryptography and its applications ****		0		0	2	PG	0	2	3			0+0+2+0	
IPM-21fkbCRAE	Provably secure modular design of cryptographic protocols		2	E	0	0		0	2	3			2+0+0+0	
IPM-21fkbCRAG	Provably secure modular design of cryptographic protocols		0		0	2	PG	0	2	3			0+0+2+0	
IPM-18fkbCRPE	Cryptography protocols		2	E	0	0		0	2	3			2+0+0+0	
IPM-18fkbCRPG	Cryptography protocols		0		0	2	PG	0	2	3			0+0+2+0	
IPM-20fkbSCLAB1	Cyber Security Lab I.		0		3	0	PG	1	4	3			0+3+0+1	
IPM-20fkbSCLAB2	Cyber Security Lab II.*		0		5	0	PG	1	6	3			0+5+0+1	
	Obligatory course credits								66					
	Optional course*								9	1,2	5+0+0*	4+0+0*		
IPM-20fTHCONS	Thesis consultation					5	PG	10	30	4				signature
	Summa credit in semester										30	30	30	30
	Summa credit							120						
	I&E modul													
IPM-18fI&EBEG	I&E Basics		2	X	0	2	PG	1	5	1	2+0+2+1			
IPM-18fI&EBDL1E	Business Development Lab I.		2	E	0	0		0	2	1	2+0+0+0			
IPM-18fI&EBDL1G	Business Development Lab I.		0		0	2	PG	1	3	1	0+0+2+1			
IPM-18fI&EBDL2E	Business Development Lab II.		2	E	0	0		0	2	2		2+0+0+0		
IPM-18fI&EBDL2G	Business Development Lab II.		0		0	2	PG	1	3	2		0+0+2+1		
IPM-18fI&MSTEEG	I&E Management skills for tech entrepreneurs		2	X	0	2	PG	1	5	2		2+0+2+1		

IPM-18fi&ETSSG	Thematic Summer Schools with I&E project		0		0	4	PG	0	4	2		0+0+4+0			
IPM-18fi&ESTEG	I&E Study		2	X	0	2	PG	2	6	3			2+0+2+2		
	Summa credit in semester											30	30	30	30
	Summa credit								120						

- Az EIT-es hallgatók a képzés első évében az I&E modult végzik. A szakirányra jelentkező hallgatók külön engedélyek vehetik fel az I&E modult a *-gal megjeölt tárgyak kiváltása mellett.
- A hallgatók a Cyber Security Lab I.és II. teljesítésével kiváltják a szakmai gyakorlatot.
- Az EIT-s hallgatók az utolsó félévükben végzik a szakmai gyakorlatot a diplomamunka készítésével párhuzamosan

- The EIT students are doing the Innovation&Entrepreneurshop (I&E) module in their first year of studies. Students applying to this major may be allowed to take the I&E module in exchange of *-marked courses
- Computer Science Master course students with Artificial Intelligence specialization are entitled to fulfill the requirements of the internship by the completion of Cyber Security Lab I. and Lab II. courses
- EIT students fulfill the requirements of the internship and complete their thesis work (parallely), in the last semester of their academic studies.

CA: Practice with continuous assessment

***** Discontinued subject**