Computer Science MSc (Software Architecture Specialization 2022)

Compulsory subjects

Code	Subject	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	2	XPG	5	1		1+2+0+2			
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
IPM-22feszTPE	Theory of programming	2	0	0	1	E	3	1	IPM-22feszTPG (weak)	2+0+0+1			
IPM-22feszTPG	Theory of programming	0	2	0	1	PG	3	1		0+2+0+1			
IPM-22feszPCMSG	Preparation course for master studies and developing learning skills	0	3	0	0	PG	2	1		0+3+0+0			

IPM-22fpiPME	Project Management	2	0	0	0	E	2	1,3		2+0+0+0		2+0+0+0	
IPM-22feszFSE	Formal semantics	2	0	0	1	E	3	2	IPM-22feszFSG (weak)		2+0+0+1		
IPM-22feszFSG	Formal semantics	0	2	0	1	PG	3	2			0+2+0+1		
IPM-22feszDAAG	Design and analysis of algorithms	0	2	0	1	PG	3	2			0+2+0+1		
IPM-22feszSQTE	Software quality and testing	2	0	0	1	E	3	2	IPM-22feszSQTG (weak)		2+0+0+1		
IPM-22feszSQTG	Software quality and testing	0	0	2	1	PG	3	2			0+0+2+1		
IPM-22feszSALAB1	Software Technology Lab I.	0	0	4	1	PG	5	2			0+0+4+1		
IPM-22feszDDSE	Design of Distributed Systems	2	0	0	1	E	3	3	IPM-22feszDDSG (weak)			2+0+0+1	
IPM-22feszDDSG	Design of Distributed Systems	0	0	2	1	PG	3	3				0+0+2+1	
IPM-22feszSALAB2	Software Technology Lab II.	0	0	4	1	PG	5	3				0+0+4+1	
	Compulsory subjects credits						**54**			**15**	**28**	**11**	
	Compulsory elective credits						***30***			***15***	***2***	***13***	
IPM-22fERASMUS	**Erasmus mobility**						**max 24 credits**	**3**				**max 24 credits**	
	Elective credits						***6***	***3***				***6+0+0***	
IPM-24fTHCONS	**Thesis consultation**		**5**		**10**	**PG**	**30**	**4**					**signature**
	Summa credit in semester									**30**	**30**	**30**	**30**
	Summa credit						**120**						

Compulsory elective subjects

Code	Subject	Lecture (L)	Practice (Pr)	Labor	Consultation	Requirement	Credit	Semester	Subject requirement	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-22feszAJPE	Advanced Java programming	2	0	0	1	E	3	1	IPM-22feszAJPG (weak)	2+0+0+1			
IPM-22feszAJPG	Advanced Java programming	0	0	2	1	PG	3	1		0+0+2+1			
IPM-22feszIDSEG	Introduction to Data Science	2	0	2	2	XE	6	1		2+0+2+2			
IPM-22feszMCE	Models of Computation	2	0	0	0	E	2	1	IPM-22feszMCG (weak)	2+0+0+0			
IPM-22feszMCG	Models of Computation	0	2	0	1	PG	3	1		0+2+0+1			
IPM-22feszPAIEG	Principles of artificial intelligence	2	0	2	2	XE	6	1		2+0+2+2			
IPM-22feszAAE	Advanced Algorithms	2	0	0	1	E	3	1,3	IPM-22feszAAG (week)	2+0+0+1		2+0+0+1	
IPM-22feszAAG	Advanced Algorithms	0	2	0	1	PG	3	1,3		0+2+0+1		0+2+0+1	
IPM-22feszCISE	Complex information systems	2	0	0	1	E	3	2	IPM-22feszCISG (weak)		2+0+0+1		
IPM-22feszCISG	Complex information systems	0	0	2	1	PG	3	2			0+0+2+1		
IPM-22feszFUNLEG	Functional Languages	2	0	2	2	XE	6	2			2+0+2+2		

IPM-22feszMLEG	Machine Learning	2	0	2	2	XE	6	2	IPM-22feszIDSEG		2+0+2+2		
IPM-22feszSESCE	Service Science	2	0	0	1	E	3	2	IPM-22feszSESCG (weak)		2+0+0+1		
IPM-22feszSESCG	Service Science	0	0	2	1	PG	3	2			0+0+2+1		
IPM-22feszADSEG	Analysis of distributed systems	2	2	0	2	XPG	6	3				2+2+0+2	
IPM-22feszICSE	Introduction to Computer Security	2	0	0	1	E	3	3	IPM-22feszICSG (weak)			2+0+0+1	
IPM-22feszICSG	Introduction to Computer Security	0	0	2	1	PG	3	3				0+0+2+1	
IPM-22feszMTAIEG	Methods and tools for AI applications	2	0	2	2	XE	6	3				2+0+2+2	
IPM-22feszSEAPE	Scalable enterprise applications	2	0	0	1	E	3	3	IPM-22feszSEAPG (weak)			2+0+0+1	
IPM-22feszSEAPG	Scalable enterprise applications	0	0	2	1	PG	3	3				0+0+2+1	

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