

Computer Science MSc (Artificial Intelligence 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-22fmiDNDEG	Deep Network Developments	2	0	2	2	XE	6	1		2+0+2+2			
IPM-22fmiMTAAEG	Methods and tools for AI applications	2	0	2	2	XE	6	1		2+0+2+2			
IPM-22fmiPAIEG	Principles of artificial intelligence	2	0	2	2	XE	6	1		2+0+2+2			
IPM-22fmiDRLEG	Deep Reinforcement Learning	2	0	2	2	XCA	6	2	IPM-22fmiDNDEG		2+0+2+2		
	Compulsory credits						37			23	14		
	Compulsory elective credits						47			7	11	29	
IPM-22fERASMUS	Erasmus mobility						max 24 credits	3				max 24 credits	
	Elective subjects						6	2,3			5+0+0	1+0+0	
IPM-24fTHCONS	Thesis consultation				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-22fmiCVEG	3D Computer Vision	2	0	2	2	XE	6	1		2+0+2+2			

IPM-22fmiIDSEG	Introduction to Data Science	2	0	2	2	XE	6	1		2+0+2+2			
IPM-22fmiPREPG	Preparation course for master studies and developing learning skills	0	3	0	0	PG	2	1		0+3+0+0			
IPM-22fmiTAMEG	Topics in Applied Mathematics	2	2	0	1	PG	5	1		2+2+0+1			
IPM-24fmiLEAE	Legal and ethical aspects of DS and AI	2	0	0	2	E	4	1		2+0+0+2			
IPM-22fmiGTEG	Game theory	2	2	0	2	XCA	6	2			2+2+0+2		
IPM-22fmiMLEG	Machine Learning	2	0	2	2	XE	6	2	IPM-22fmiIDSEG		2+0+2+2		
IPM-22fmiMASEG	Multi-agent systems	2	0	2	2	XE	6	2			2+0+2+2		
IPM-22fmiLPE	Logic programming.	2	0	0	1	XE	3	2	IPM-22fmiLPG (weak)		2+0+0+1		
IPM-22fmiLPG	Logic programming.	0	0	2	1	PG	3	2			0+0+2+1		
IPM-22fmiCOSCEG	Cognitive Science	2	2	0	2	XE	6	3			2+2+0+2		
IPM-22fmiAMLEG	Advanced Deep Network Development	2	2	0	2	XE	6	3	IPM-22fmiDNDEG			2+2+0+2	
IPM-22fmiACEG	Affective computing	2	0	2	2	XE	6	3	IPM-22fmiDNDEG			2+0+2+2	
IPM-22fmiAIPLAB1	AI Project Lab I.	0	0	2	2	PG	4	3				0+0+2+2	
IPM-22fmiAIPLAB2	AI Project Lab II.	0	0	4	2	PG	6	3				0+0+4+2	
IPM-22fmiROBEG	AI Robotics	2	0	2	2	XE	6	3	IPM-22fmiDNDEG			2+0+2+2	
IPM-22fmiCOLLIEG	Collective Intelligence	2	0	2	2	PG	6	3				2+0+2+2	
IPM-22fmiCIEG	Computational Intelligence	2	0	2	2	XE	6	3				2+0+2+2	
IPM-22fmiEIEG	Embodied Intelligence	2	0	2	2	XE	6	3				2+0+2+2	
IPM-23fmiSJEG	Statistics for signal processing	2	1	0	1	XPG	4	3				2+1+0+1	
IPM-23fmi3DCPAEG	3D point cloud processing and analysis	2	2	0	2	XE	6	3				2+2+0+2	
IPM-22fmiNLPEG	<i>Natural Language Processing (Discontinued subject)</i>	2	0	2	2	XE	6	3	IPM-22fmiDNDEG			2+0+2+2	
IPM-23fmiNLPFMEG	Natural Language Processing and Language-based Foundation Models	4	0	4	4	XE	12	1-4	IPM-22fmiDNDEG	4+0+4+4	4+0+4+4	4+0+4+4	4+0+4+4
IPM-24fmiGNNEG	Graph Neural Networks	2	2	0	2	XE	6	1-4		2+2+0+2	2+2+0+2	2+2+0+2	2+2+0+2

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