

Adattudomány MSc 2024 (Data Science MSc 2024)

Compulsory courses

Code	Courses	Lecture (L)	Practice (Pr)	Labor	Consultation	Requirement	Credit	Semester	Subject requirement	1st Semester	2nd Semester	3rd Semester	4th Semester
IPM-24ATDNDEG	Deep Network Development	2	0	2	2	XE	6	1		2+0+2+2			
IPM-24ATIDSEG	Introduction to Data Science	2	0	2	2	XE	6	1		2+0+2+2			
IPM-24ATLEAE	Legal and ethical aspects of DS and AI	2	0	0	2	E	4	1		2+0+0+2			
IPM-24ATRMEG	Research methodology	1	2	0	2	XPG	5	1		1+2+0+2			
IPM-24ATTAMEG	Topics in Applied Mathematics	2	2	0	1	XPG	5	1		2+2+0+1			
IPM-24ATDSLAB1	Data Science Lab I.	0	2	0	2	PG	4	2	IPM-24ATIDSEG		0+2+0+2		
IPM-24ATIDSE	Introduction to Data Security	2	0	0	2	E	4	2			2+0+0+2		
IPM-24ATNMEG	Numerical Methods for Optimization	2	0	2	2	XE	6	2	IPM-24ATTAMEG		2+0+2+2		
IPM-24ATMLEG	Machine Learning	2	0	2	2	XE	6	2	IPM-24ATIDSEG		2+0+2+2		
IPM-24ATAAE	Audio Analyysi	2	0	0	1	E	3	3				2+0+0+1	
IPM-24ATDSLAB2	Data Science Lab II.	0	2	0	4	PG	6	3				0+2+0+4	
IPM-24ATIAE	Image Analyysi	2	0	0	1	E	3	3				2+0+0+1	
IPM-24ATOSTEG	Open-source Technologies for Data Science	2	0	2	2	XE	6	3				2+0+2+2	
IPM-24ATSMEG	Stream Mining	2	2	0	2	XE	6	3				2+2+0+2	
IPM-24ATTME	Text Mining	2	0	0	1	E	3	3				2+0+0+1	
	Core course credits						73			26	20	27	

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-24ATPREPG	Preparation course for master studies and developing learning skills	0	3	0	0	PG	2	1		0+3+0+0			
IPM-24ATiSJEG	Statistics for signal processing	2	0	1	1	XPG	4	1		2+0+1+1			
IPM-24ATICNAEG	Introduction to Cloud Native Architectures	2	0	2	2	XPG	6	1,3		2+0+2+2		2+0+2+2	
IPM-24ATCTDSEG	Commercial Technologies for Data Science	1	0	2	1	XE	4	2			1+0+2+1		
IPM-24ATDMDBE	Data models and database	2	0	0	1	E	3	2	IPM-24ATDMDBG (weak)		2+0+0+1		
IPM-24ATDMDBG	Data models and database	0	0	2	1	PG	3	2			0+0+2+1		
IPM-24ATDAAE	Design and analysis of algorithms	2	0	0	2	E	4	2			2+0+0+2		
IPM-24ATRSEG	Recommender Systems	2	2	0	2	XPG	6	2			2+2+0+2		
IPM-24ATADNDEG	Advanced Deep Network Development	2	2	0	2	XE	6	3	IPM-24ATDNDEG			2+2+0+2	
IPM-24ATNSEG	Network Science	2	2	0	2	XE	6	3				2+2+0+2	
	Compulsory courses credits						73			26	20	27	
	Compulsory elective courses credits						11			2	6	3	
IPM-24ATERASMUS	Erasmus mobility						max 24 credits	3				max 24 credits	
	Optional course						6	1,2		2+0+0	4+0+0		
IPM-24ATTHCONS	Thesis consultation				14	PG	30	4					PG
	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