Master Programme in Artificial Intelligence (from 2026 September)

Clarifications regarding the curriculum

Courses marked with an asterisk (*) in the curriculum are also offered in the Computer Science BSc programme under different subject codes. The following rules apply to such courses:
• If you completed a subject during the Computer Science BSc programme and had it counted into your degree requirements (i.e. included in the 180 credits required for graduation), we will accept its completion. However, you may not register for the same course again in the MSc programme, nor may it be recognised through a credit transfer procedure.
• If such a subject is a compulsory subject in the MSc programme, it will automatically be regarded as completed for the purposes of graduation. In this case, you must take another subject from the compulsory elective subjects offered within your specialisation, in the same number of credits.
• If you completed the course during your BSc studies but did **not** have it counted in the 180 credits required for graduation (i.e. it was not listed in your graduation application either as a compulsory elective subject or as a free elective subject, and it was not one of your compulsory subjects), you may transfer it to the MSc programme through a **credit transfer procedure**. If the subject is classified as a compulsory or compulsory elective subject within the programme, it will be counted towards the corresponding category of the degree programme.

Preliminary Credit Assessment at Admission

Students who, during the preliminary credit assessment at the time of admission or as part of the institutional admission procedure, were required by an official decision to complete additional credits must complete the missing supplementary knowledge **in parallel with their Master's studies, within two semesters of admission.**

The courses required to fulfil these additional credit requirements are determined by the **programme director, Dr. László Gulyás.**

Please note that these courses **do not count towards the 120 credits required for completing the Master's programme.** Students must complete these additional courses **in addition to the 120 credits** required for their degree.

Information Regarding Internship

In accordance with Annex 3 of Decree No. 15/2006 (IV. 3.) of the Ministry of Education, students enrolled in the Artificial Intelligence MSc programme are required to complete a six-week internship.
The internship does not carry any credits; however, its successful completion is a mandatory graduation requirement and a prerequisite for obtaining the absolutory (pre-degree certificate).

https://www.inf.elte.hu/en/internship-bsc-msc
https://www.inf.elte.hu/en/spec-info-computer-science-msc

If a student has completed two laboratory courses with a total value of 10 credits (AI Project Lab I & II.), they may apply for recognition of the internship requirement by submitting the following request in Neptun: IK - Accepting Laboratory Courses as Internship. If the request is approved, the completed laboratory courses may be recognised as an accomplished mandatory internship requirement.
More details in the Essential Guide (applies also this training programme): **Accomplishing the internship with laboratory subjects in MSc in Computer Science**

Also by completing **Innovation Laboratory**, mandatory internship required may be recognised.

**Thesis consultation

https://www.inf.elte.hu/en/guidelines-thesis-final-examination-msc

Compulsory subjects

Code	Subject	Lecture (L)	Practice (Pr)	Labor	Consultation	Requirement	Credit	Semester	Subject requirement	1st Semester	2nd Semester	3rd Semester	4th Semester
ELTE-OI-AI	Start wAItless - Introduction to the use of Artificial Intelligence in Higher Education						0	1		online course			
IPM-26MIRMEG	Research methodology L+Pr.	1	2	0	2	XPG	5	1		1+2+0+2			
IPM-26MIiDNDEG	Deep Network Developments	2	0	2	2	XE	6	1		2+0+2+2			
IPM-26MIiPAIEG	Principles of artificial intelligence	2	0	2	2	XE	6	1		2+0+2+2			
IPM-26MITAMEG	Topics in Applied Mathematics	2	2	0	1	XPG	5	1		2+2+0+1			
IPM-26MICIEG	Computational Intelligence	2	0	2	2	XPG	6	2			2+0+2+2		
IPM-26MIAMLEG	Advanced Deep Network Development	2	0	2	2	XE	6	2	IPM-26MIiDNDEG		2+0+2+2		
IPM-26MIiDRLEG	Deep Reinforcement Learning	2	0	2	2	XCA	6	3	IPM-26MIiDNDEG			2+0+2+2	
IPM-26MIPRG	Internship						0	4					240 hours
	Compulsory credits						**40**			**22**	**12**	**6**	
	Compulsory elective credits						***44***			***8***	***18***	***24***	
IPM-26MIERASMUS	**Erasmus mobility**						**max 24 credits**	**3**				**max 24 credits**	
	Elective subjects						***6***	***2,3***			***5+0+0***	***1+0+0***	
IPM-26MITCONS**	**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-26MIIDSEG	Introduction to Data Science	2	0	2	2	XE	6	1		2+0+2+2			
IPM-26MIPREPG	Preparation course for master studies and developing learning skills	0	3	0	0	PG	2	1		0+3+0+0			
IPM-26MIMTAAEG	Methods and tools for AI applications	2	0	2	2	XE	6	1		2+0+2+2			
IPM-26MISLKME	Statistical learning theory and kernel methods	2	0	0	0	E	2	1		2+0+0+0			
IPM-26MINMOEG	Numerical Methods for Optimization	2	2	0	2	XPG	6	1		2+2+0+2			
IPM-26MICVEG	3D Computer Vision	2	0	2	2	XE	6	1,3		2+0+2+2		2+0+2+2	
IPM-26MILEAE	Legal and ethical aspects of DS and AI	2	0	0	2	E	4	1,3		2+0+0+2		2+0+0+2	
IPM-26MIGTEG	Game theory	2	2	0	2	XCA	6	2			2+2+0+2		
IPM-26MIMLEG	Machine Learning	2	0	2	2	XE	6	2	IPM-26MIIDSEG		2+0+2+2		
IPM-26MIMASEG	Multi-agent systems	2	0	2	2	XE	6	2			2+0+2+2		
IPM-26MILPEG	Logic programming.	2	0	2	2	XPG	6	2			2+0+2+2		
IPM-26MICOSCEG	Cognitive Science	2	2	0	2	XE	6	2			2+2+0+2		
IPM-26MIfASTE	Advanced Software Technology	2	0	0	2	PG	4	2			2+0+0+2		
IPM-26MIACEG	Affective computing	2	0	2	2	XE	6	2	IPM-26MIiDNDEG		2+0+2+2		
IPM-26MIEIEG	Embodied Intelligence	2	0	2	2	XPG	6	2,3			2+0+2+2	2+0+2+2	
IPM-26MINMLSG	New results in machine learning seminar	0	2	0	0	PG	2	2,3			0+2+0+0	0+2+0+0	
IPM-26MI3DCPAEG	3D point cloud processing and analysis	2	2	0	2	XE	6	2,3			2+2+0+2	2+2+0+2	
IPM-26MIAIPLAB1	AI Project Lab I.	0	0	2	2	PG	4	3				0+0+2+2	
IPM-26MIAIPLAB2	AI Project Lab II.	0	0	4	2	PG	6	3				0+0+4+2	
IPM-26MIROBEG	AI Robotics	2	0	2	2	XE	6	3	IPM-26MIiDNDEG			2+0+2+2	
IPM-26MICOLLIEG	Collective Intelligence	2	0	2	2	PG	6	3				2+0+2+2	
IPM-26MINLPFMEG	Natural Language Processing and Language-based Foundation Models	4	0	4	4	XE	12	1,2,3	IPM-26MIiDNDEG	4+0+4+4	4+0+4+4	4+0+4+4	

IPM-26MIGNNEG	Graph Neural Networks	2	0	2	2	XPG	6	1,2,3		2+0+2+2	2+0+2+2	2+0+2+2	
IPM-26MIiLPENG	I Learn with Prompt Engineering**	0	2	0	0	XPG	2	1,2,3		0+2+0+0	0+2+0+0	0+2+0+0	
IPM-26MICLEG	Computational linguistics	2	0	2	2	XE	6	1,2,3		2+0+2+2	2+0+2+2	2+0+2+2	

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