

Specialization "Intelligent Technology" 2021-2022

MSc curriculum in general:

year 1	EC	year 2	EC	
Compulsory courses	21	Free electives	15	* core choice: chose 3 out of 6 specialization courses
Specialization courses	18	Internship MKI83	15	* specialization electives: chose 18 ec of the published list
Specialization electives	18	Research project MKI92	30	or: Extended research project MKI94 45
Free electives	3			

Compulsory: 21 EC (both specialisations) + 18 EC (specialization courses) = 39 EC

period 1	EC	period 2	EC	period 3	EC	period 4	EC				
Advanced A&PS MKI66	Ahmadi	3	Advanced A&PS MKI66	Ahmadi	3	Ethics for AI MKI67	Haselager	3	Ethics for AI MKI67	Haselager	3
						Applied Machine Learning MKI75	Kachmann	3	Applied Machine Learning MKI75	Kachmann	3
						AI in the professional Workfield MKI76	Ahmadi	3			

Specialization core Neurotechnology and Healthcare (select 18 EC)

Neuroimaging I DGCN02	Kohn	3	Neuroimaging I DGCN02	Kohn	3	AI for Neurotechnology MKI73	Güglütürk	3	AI for Neurotechnology MKI73	Güglütürk	3
AI for Healthcare MKI72	Colizoli	3	AI for Healthcare MKI72	Colizoli	3	Intel.syst.med.Imag. IMC037	Ciampi	3	Intel.syst.med.Imag. IMC037	Ciampi	3
						Adv. Brain-Computer Interfacing MKI74	Tangermann	3	Adv. Brain-Computer Interfacing MKI74	Tangermann	3

Specialisation core Interactive Agents (selection of 18 EC):

Human-Robot Interact. MKI70	Lanillos	3	Human-Robot Interact. MKI70	Lanillos	3	Com.Graph.&Com.Vis. MKI95	Güglü	3	Com.Graph.&Com.Vis. MKI95	Güglü	3
Text&Multimedia Mining LCEX-06	Larson	3	Text&Multimedia Mining LCEX-06	Larson	3	New media lab MKI52	Bosse	3	New media lab MKI52	Bosse	3
						Sensorimotor Neuroscience & Technology MKI79	Miller	6			

Specialization core Societal Impact (selection of 18 EC):

AI for Healthcare MKI72	TBA	3	AI for Healthcare MKI72	TBA	3	AI for Neurotechnology MKI73	Güglütürk	3	AI for Neurotechnology MKI73	Güglütürk	3
Human-Robot Interact. MKI70	Lanillos	3	Human-Robot Interact. MKI70	Lanillos	3	Adv. Brain-Computer Interfacing MKI74	Tangermann	3	Adv. Brain-Computer Interfacing MKI74	Tangermann	3
Text&Multimedia Mining LCEX-06	Larson	3	Text&Multimedia Mining LCEX-06	Larson	3	Com.Graph.&Com.Vis. MKI95	Güglü	3	Com.Graph.&Com.Vis. MKI95	Güglü	3
						New media lab MKI52	Bosse	3	New media lab MKI52	Bosse	3

Specialization electives Neurotechnology and Interactive Agents: 18 EC (3 courses)

period 1	EC	period 2	EC	period 3	EC	period 4	EC				
Inform. Retrieval NWI-I00041	Vries	3	Inform. Retrieval NWI-I00041	Vries	3	Social Neurocognition DGCN26	Toni	3	Social Neurocognition DGCN26	Toni	3
Neuromorphic Comp. MKI96	Kwisthout	3	Neuromorphic Comp. MKI96	Kwisthout	3	Autom.speech recogn.LCEX10	Ten Bosch	3	Autom.speech recogn.LCEX10	Ten Bosch	3
NeurIPS MKI49	Gerven	3	NeurIPS MKI49	Gerven	3	Cognition & Complexity MKI40	Rooij	3	Cognition & Complexity MKI40	Rooij	3
Design of Emb. Sys. NWI-I00155	Hooman	3	Design of Emb. Sys. NWI-I00155	Hooman	3	Neurophilosophy DGCN03	Haselager	3	Neurophilosophy DGCN03	Haselager	3
Intro Lang.Speech Tech REMA-LCEX19	Halteren	3	Intro Lang.Speech Tech REMA-LCEX19	Halteren	3	TFCA MKI56	Guest	3	TFCA MKI56	Guest	3
Law in Cyberspace NWI-IMC006	Zuiderveen	3	Law in Cyberspace IMC006	Zuiderveen	3	Probabilistic Deep Learning MKI69	Ambrogioni	3	Probabilistic Deep Learning MKI69	Ambrogioni	3
Cognitive Robotics MKI68	Thill	3	Cognitive Robotics MKI68	Thill	3	Upgrading the human NWI-FFIL215	Lemmens	3	AI Research Colloquium MKI71	Kietzmann	3
			The Auditory System NWI-NM102	Opstal	3	Natural computing NWI-IMC042	Machiori	3	Natural computing NWI-IMC042	Machiori	3
						Bias in AI MKI77	Vacancy	3			

Specialization electives Societal Impact: 18 EC (3 courses) (not final)

Law in Cyberspace NWI-IMC006	Zuiderveen	3	Law in Cyberspace NWI-IMC006	Zuiderveen	3	Upgrading the human NWI-FFIL215	Lemmens	3	Bias in AI MKI77	Vacancy	3
Innovation management NWI-FMT003E	Barzola	6	Philosophy & Ethics for CS NWI-IMI003	Consoli	3	Gender/Conflict & Int.Inst.MAN-MGEM001	Joachim	6			
Comparative Societal Questions SOW-SCS101	Tonnaer	3									
Mobilising Change SOW-ADSM100	Koster	6									
Radicalisation SOW-SCS119	Spierings	6									
Diversity in Organisations SCS210	Brink	6									

Free electives: 18 EC

Graduation project: Either Internship (15 EC) plus research project (30 EC) or Extended research project (45 EC)