

Specialization "Cognitive Computing" 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			period 2			period 3			period 4		
EC			EC			EC			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
						Probabilistic Deep Learning MKI69	Ambrogioni	3	Probabilistic Deep Learning MKI69	Ambrogioni	3
									AI Research Colloquium MKI71	Kietzmann	3

Neuromorphic Comp. MKI96	Kwisthout	3	Neuromorphic Comp. MKI96	Kwisthout	3	TFCA MKI56	Guest	3	TFCA MKI56	Guest	3
NeurIPS MKI49	Gerven	3	NeurIPS MKI49	Gerven	3	Cognition & Complexity MKI40	Rooij	3	Cognition & Complexity MKI40	Rooij	3
Cognitive Robotics MKI68	Thill	3	Cognitive Robotics MKI68	Thill	3	Neurophilosophy DGCN03	Haselager	3	Neurophilosophy DGCN03	Haselager	3

Cognitive Computing Specialization electives: 18 EC (3 courses)

period 1			period 2			period 3			period 4		
EC			EC			EC			EC		
Neuroimaging I DGCN02	Kohn	3	Neuroimaging I DGCN02	Kohn	3	AI for Neurotechnology MKI73	Güçlütürk	3	AI for Neurotechnology MKI73	Güçlütürk	3
Bayesian Networks IMC012	Textor	3	Bayesian Networks IMC012	Textor	3	Com. Graph.&Com.Vis. MKI95	Guclu	3	Com. Graph.&Com.Vis. MKI95	Guclu	3
Adv. Neurosci Tech. NM099b	Norris	3	Adv. Neurosci Tech. NM099b	Norris	3	New media lab MKI52	Bosse	3	New media lab MKI52	Bosse	3
Text&Multimedia Mining LCEX-06	Larson	3	Text&Multimedia Mining LCEX-06	Larson	3	Adv.Comput.Neurosc.NM085C	Tiesinga	3	Adv.Comput.Neurosc.NM085C	Tiesinga	3
Evolution&the Mind FFIL202A	Lemmens	3	Comput. Neurosc. NM047D	Tiesinga	3	Adv.Machine Learning NM048B	Kappen	3	Adv.Machine Learning NM048B	Kappen	3
Motor Control DGCN23	Medendorp	3	Motor Control DGCN23	Medendorp	3	Natural computing IMC042	Machiori	3	Natural computing IMC042	Machiori	3
Human-Robot Interact.MKI70	Lanillos	3	Human-Robot Interact.MKI70	Lanillos	3	Quantitative Brain NWs NM080b	Tiesinga	3	Quantitative Brain NWs NM080b	Tiesinga	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
Neuromorphic Engineering MKI78	Grootjen	3	Perception DGCN44	Koning	3	Adv. Brain-Computer Interfacing MKI74	Tangerman	3	Adv. Brain-Computer Interfacing MKI74	Tangerman	3
						Applied Machine Learning MKI75	Kachman	3	Applied Machine Learning MKI75	Kachman	3
						Perception DGCN44	Koning	3	AI in the professional Workfield MKI79	Ahmadi	3
						Sensorimotor Neuroscience & Technology MKI79	Miller	6			

Free electives: 18 EC

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