Appendix to the announcement „Human-Centred Artificial Intelligence Master's at BME VIK”

Subject type		*Subject title*	*Neptun code*	*ECTS credit*	*IS minor*		*DM minor*	
HCAIM	*BME*				*Req*	*Elec*	*Req*	*Elec*
I Core	Common	Applied Algebra and Mathematical Logic	TE90MX57	4	4		4	
	Minor	Probabilistic Inference and Decision Support Systems	VIMIMA06	4	4			4
		Machine Learning	VIMIMA05	4	4			4
	Elective	Deep Learning in Practice with Python and LUA	VITMAV45	4		4		4
		Privacy-Preserving Technologies	VIHIAV35	2		2		2
		Security in Machine Learning	VIHIAV45	2		2		2
		Ethics for Engineers	GT41M004	2		2		2
		Ethics of Artificial Intelligence	GT41V105	2		2		2
		Artificial Intelligence and Law	GT55V106	2		2		2
	Common	Project laboratory 2		5	5		5	
		Thesis work		15	15		15	
	A. HCAIM core, TOTAL			**46**	**32**	**14**	**24**	**22**
II Optional	Common	Project laboratory 1		5	5		5	
	Minor	Complex AI Applications	VIMIMB01	4	4			
		Cooperation and Machine Learning Laboratory	VIMIMB02	4	4			
		Data Analytics Platforms	VITMMA05	4			4	
		Text and Web Mining	VITMMA06	4			4	
		Multimedia Content Technologies	VITMMB01	4			4	
		Data and Multimedia Mining Laboratory	VITMMB02	4			4	
	B. HCAIM optional, TOTAL				**13**		**21**	
HCAIM core + possible optional, TOTAL					**32+14+13=59**		**24+22+21=67**	
III Optional	Elective	Neural Networks	VIMIJV07	4				
		Software and Systems Verification	VIMIMA01	4				
		Deep Learning in Visual Computing	VIIIAV20	4				
		Security and Privacy: an Economic Approach	VIHIAV34	2				
		Complex Federated Models in Machine Learning	VIMIAV25	2				
		Media and Text Mining	VITMM275	5				
		Artificial General Intelligence	VIMIAV22	2				
		Software Ergonomics	GT528802	2				
		Intelligent Text Analysis in Real-Life Applications	VIMIAV18	2				

Abbreviations. Req = Required, Elec = Elective, IS minor = Intelligent Systems minor, DM minor = Data and Media Informatics minor

In blocks I and II, columns *IS minor* and *DM minor* show the amount of ECTS credits students of the given minor can gain to fulfil the HCAIM requirements.

Block I shows how students of IS and DM minors can obtain a total of 46 credits for the HCAIM requirements by completing the HCAIM core subjects currently available at BME VIK (see total A). Some of them are required common or minor subjects, others elective in the given minor. 14 and 22 in cells *Elec,* row *A. TOTAL* indicate that in addition to the 12 credits assigned to electives, students in the given minor must obtain 2 and 10 additional credits, respectively, to meet the HCAIM requirements.

Block II shows that, in addition to the 46 credits obtainable in block I, by completing their required courses

- students of IS minor can get further 13, in total 59 credits, i.e. they need only one more credit to fulfil the 60 credit requirement of HCAI Master’s which can be satisfied by an optional course from block III (cf. total B);
- students of DM minor can get further 21 credits, which is more than enough to fulfil the 60 credit requirement (cf. total B).

At the request of the student, based on individual assessment

- completion of other electives with significantly overlapping content is acceptable instead of some of the electives in block I;
- in case of schedule conflicts preventing the admission of certain HCAIM subjects, requirements of these subjects may be fulfilled by individual schedule.