## BSc Artificial Intelligence: Study Progression (part-time study)

Module		SWS (semester hours)				Total	Distribution of workload per semester in ECTS credits											Type and scope of the exam-		
no.	Module name	L	т	Р	s	ECTS credits	1. WS	2. SS	3. WS	4. SS	5. WS	6. SS	7. WS	8. SS	9. WS	10. SS	11. WS	12. SS	ination	GOP
Core mo	dules in computer science							•												
B1	Algorithms, programming, and data representation	4	2	2		10	10												EA: WE120 + CA: TA	•
B2	Data engineering	2	2			5		5											EA: WE90	•
В3	Applied programming	2	2			5		5											EA: O20 or LA (5 pages) <sup>1)</sup> and CA: TA	•
B4	1 1 ,		2			7.5					7.5								EA: WE90	
B5	Introduction to software engi- neering	2	2			5							5						EA: WE90	
Core mo	dules in mathematics	_								-				_						
B6	Mathematics for data science 1	4	4			10			10										EA: WE120 + CA: TA	•
B7	Mathematics for data science 2	4	4			10				10									EA: WE120 + CA: TA	•
B8	Probability and stochastic pro- cesses	2	2			5								5					EA: WE60	
Core mo	dules in artificial intelligence																			
B9	Artificial intelligence perspec- tives	2	2			5	5												EA: W90 or O30 <sup>2)</sup>	•
B10	Artificial intelligence fundamen- tals 1	2	2			5			5										EA: WE90	
B11	Logic and symbolic artificial in- telligence	4	2			7.5					7.5								EA: WE60	
B12	Artificial intelligence fundamen- tals 2	4	4			10						10							EA: WE90	
B13	Ethics and philosophy of Al (advanced seminar)				2	5						5							EA: WE90	
B14	Application domain fundamentals ScAI Section 5 <sup>3)</sup>	s pursi	uant to	o FPO	В-	20		5					5	5	5				EA: see FPOBScAI Section 5 (3)	
B15	B15 Artificial intelligence electives pursuant to FPOBScAl Section 6 <sup>3)</sup>					30							5	5	10	10			EA: see FPOBScAI Section 6 (3)	
B16	Artificial intelligence seminar (advanced seminar) pursuant to FPOBScAI Section 7 <sup>3)</sup>				2	5											5		EA: see FPOBScAl Section 7 (3)	

B17	Artificial intelligence project pursuant to FPOBScAI Section 8 <sup>3) 4)</sup>					10											10		EA: see FPOBScAI Section 8 (3)	
B18 Free Choice pursuant to FPOBScAI Section 9 <sup>5)</sup>					10				5						5			CA: see FPOBScAl Section 9 (3)		
B19	Bachelor's the- sis	Thesis Advanced seminar				2	15												12 3	EA: written thesis and presentation with discussion (approx. 30+15 min) (80 % + 20%)
Total SWS and ECTS credits 119–13			-136		180	15	15	15	15	15	15	15	15	15	15	15	15			

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- <sup>1)</sup> Depending on student's choice.
- <sup>2)</sup> The type and scope of the examination are published each semester in the relevant module handbook.
- <sup>3)</sup> Notwithstanding Section 32 (2)(3) **ABMPO/TF**, failed attempts will not be counted when changing to alternative modules and it is still possible for students to change modules even after failing three attempts at the previous module. In addition, in the event of a failure to pass, there is no obligation to repeat the failed examination within the legally stipulated period pursuant to Section 32 (1)(6) **ABMPO/TF**.
- <sup>4)</sup> The relationship between attendance time/SWS and own study time varies depending on the specific project.
- <sup>5)</sup> Free choice of modules offered at FAU with the exception of language courses in English up to and including B1+. The type and scope of teaching units and examinations depend on the specific manner in which the respective module is taught and are regulated by the applicable (degree program and) examination regulations and/or the module handbook.

## Abbreviations:

GOP:	Grundlagen- und Orientierungsprüfung pursuant to FPOBScAI Section 4. Modules available for choosing are marked.
WE60/WE90/WE12	20: written examination lasting 60, 90 or 120 minutes.
O20/O30 min:	oral examination lasting 20 or 30 minutes.
EA:	graded examination achievement (see Section 7 (3)(7) ABMPO/TF).
LA:	laboratory achievement (see Section 7 (3) sentences 3 and 5 AMBPO/TF and module handbook).
CA:	ungraded course achievement (see Section 7 (3) sentence 8) ABMPO/TF.
SWS:	semester hours
TA:	tutorial achievement (see Section 7 (5) ABMPO/TF)
L:	Lecture
T:	Tutorial
P:	Practical
S:	Seminar