BSc Artificial Intelligence: Study Progression (full-time study)

Module no.	Madulanan	SWS (semester				Total ECTS credits	Distri	bution o		ad per se edits	mester in	T	COD	
	Module name		hours)				1. WS	2. SS	3. WS	4. SS	5. WS.	6. SS	Type and scope of the examination	GOP
Core module	es 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) and CA: TA	•
B4	Computational complexity	4	2			7.5			7.5				EA: WE90	
B5	Introduction to software engineering	2	2			5			5				EA: WE90	
Core module	es in mathematics													
В6	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 processes	2	2			5				5			EA: WE60	
Core module	es in artificial intelligence													
В9	Artificial intelligence perspectives	2	2			5	5						EA: W90 or O30 ²⁾	•
B10	Artificial intelligence fundamentals 1	2	2			5			5				EA: WE90	
B11	Logic and symbolic artificial intelligence	4	2			7.5			7.5				EA: WE60	
B12	Artificial intelligence fundamentals 2	4	4			10				10			EA: WE90	
B13	Ethics and philosophy of AI (advanced seminar)				2	5				5			EA: WE90	
B14	Application domain fundamentals pursual Section 5 3)	20	5	5	5	5			EA: see FPOBScAl Section 5 (3)					

B15	Artificial intelligence electives pursuant to FPOBScAl Section 6 3)						30					15	15	EA: see FPOBScAl Section 6 (3)
B16	Artificial intelligence seminar (advanced seminar) pursuant to FPOB-ScAl Section 7 3)					2	5					5		EA: see FPOBScAl Section 7 (3)
B17	B17 Artificial intelligence project pursuant to FPOBScAl Section 8 ^{3) 4)}						10					10		EA: see FPOBScAl Section 8 (3)
B18 Free Choice pursuant to FPOBScAl Section 9 5)					10		5		5			CA: see FPOBScAl Section 9 (3)		
D40	Dankala da da aia	Thesis					45	45					12	EA: Written assignment and
B19	Bachelor's thesis	Advanced semi- nar			2	15						3	presentation with discussion (approx. 30+15 Min.) (80% + 20%)	
Total SWS and ECTS credits:			119–136			180	30	30	30	30	30	30		

Key:

Depending on student's choice.

The type and scope of the examination are published each semester in the relevant module handbook.

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**.

The relationship between attendance time/SWS and own study time varies depending on the specific project.

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 FPOBScAl Section 4. Modules available for choosing are marked.

WE60/WE90/WE120: 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