

5.1.b. Course schedule by semesters and study years – **Master of Artificial Intelligence**

No	Title	Semester	Active teaching				other	ECTS	Mandatory/ Elective M/E	
			L	P	OFT	SRW/ PRW				
1.	Mathematic – selected chapters	1	2	2	0	0		6	Mandatory	
2.	Machine learning	1	2	1	1	0		6	Mandatory	
3–5. Elective group of courses out which a student chooses 4 courses	Bioengineering and bioinformatics	1	2	1	1	0		6	Elective	
	Biologically inspired computing	1	2	1	1	0		6	Elective	
	Artificial intelligence in medicine	1	2	1	1	0		6	Elective	
	Introduction to data science	1	2	1	1	0		6	Elective	
	Neural networks	1	2	1	1	0		6	Elective	
	Theoretical Foundations of Artificial Intelligence	1	2	1	1	0		6	Elective	
6.	Computer vision	2	2	1	1	0		6	Mandatory	
7.	Software engineering	2	2	1	1	0		6	Mandatory	
8–10 Elective group of courses out which a student chooses 4 courses	Decision support systems	2	2	1	1	0		6	Elective	
	Virtual reality systems	2	2	1	1	0		6	Elective	
	Deep learning	2	2	1	1	0		6	Elective	
	Business management	2	2	2	0	0		6	Elective	
	Ethics in artificial intelligence	2	2	2	0	0		6	Elective	
	Artificial intelligence and Low	2	2	2	0	0		6	Elective	
	Artificial intelligence and robotics	2	2	1	1	0		6	Elective	
No of classes in total (lectures + practice, OFT, other classes) and ECTS for study year						300+(165-210)	90-135	0	60	
No. of active teaching hours for study year:						600				
SECOND YEAR (FINAL YEAR)										
11.	Advanced machine learning	3	3	2	1	0		9	Mandatory	
12.	Advanced databases	3	3	2	1	0		9	Mandatory	
13–14 Elective group of courses out which a student chooses 2 courses	Computer graphics	3	2	1	1	0		6	Elective	
	Image processing	3	2	1	1	0		6	Elective	
	Dataflow computers and their application	3	2	1	1	0		6	Elective	
	Big data analysis	3	2	1	1	0		6	Elective	
	Data protection	3	2	1	1	0		6	Elective	
	Software engineering 2	3	2	1	1	0		6	Elective	
16.	Study research	4	0	0	0	20	0	10	Mandatory	
17.	Internship	4	0	0	0	0	6	5	Mandatory	
18.	Master thesis	4	0	0	0	0	4	15	Mandatory	

No of classes in total (lectures + practice, OFT, SRW/PRW, other classes) and ECTS for study year	150+90	60	300	150	60
No. of active teaching hours for study year:	600				
No. of active teaching hours, other classes and ECTS for all study years:	1200			150	120