

5.2.a Course schedule by semesters and study years – **Master of Information Technologies**

No	Title	Semester	Active teaching				other	ECTS	Mandatory/ Elective M/E
			L	P	OFT	SRW/ PRW			
FIRST YEAR									
1.	IT Innovations and Entrepreneurship	1	2	2				6	Mandatory
2-5.	Selected chapters of statistics	1	2	2				6	Elective
	Introduction to Data Science	1	2	1	2			6	Elective
	Artificial intelligence	1	2	1	2			6	Elective
	Machine learning	1	2	1	2			6	Elective
	Natural Language Processing	1	2	2				6	Elective
	Bioinformatics	1	2	2				6	Elective
	Electronic commerce	1	2	2				6	Elective
	Managing IT projects	1	2	1	1			6	Elective
	Internet of things	1	2	2				6	Elective
	Web mining	1	2	2				6	Elective
	Processing large amounts of data	1	2	1	1			6	Elective
	3D computer graphics	1	2	2				6	Elective
	Programming mobile applications	1	2	2				6	Elective
DATAFLOW computers and their application	2	2	2				6	Elective	
6.	English language in information technologies	2	2	2				6	Mandatory
7-11.	Deep learning	2	2	1	1			6	Elective
	Biologically inspired computing	2	2	2				6	Elective
	Decision support systems	2	2	2				6	Elective
	Intelligent information systems	2	2	0	2			6	Elective
	Image processing	2	2	2				6	Elective
	Software engineering	2	2	1	2			6	Elective
	Multimedia data analysis	2	2	2				6	Elective
	Quality management software	2	2	2				6	Elective
	Cloud computing	2	2	1	2			6	Elective
	Computer systems protection	2	2	2				6	Elective
	Human-Computer interaction	2	2	2				6	Elective
	Virtual reality systems	2	2	2				6	Elective
User experience design	2	2	2				6	Elective	
No of classes in total (lectures + practice, OFT, other classes) and ECTS for study year			40 - 55		0 - 15	-	-	60	
No. of active teaching hours for study year:			40 -55				-	60	
SECOND YEAR (FINAL YEAR)									

	SRW (PRW)	3				10		10	
	Internship	3					10	5	
	Final work	3					10	15	
No of classes in total (lectures + practice, OFT, SRW/PRW, other classes) and ECTS for study year						10	10	30	
No. of active teaching hours for study year:			20				10	30	
No. of active teaching hours, other classes and ECTS for all study years			60 - 75				10	90	