CURRICULUM – 1st YEAR 2024-2025

UNIVERSITY	George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș	PROGRAMME OF STUDY	Artificial Intelligence
FACULTY	Faculty of Engineering and Information Technologies	TITLE AWARDED	Master degree
FIELD OF STUDY	Informatics	OFFICIAL LENGHT OF THE PROGRAMME OF STUDY	2 years
LEVEL OF QUALIFICATION	7	NUMBER OF ECTS/SECT CREDITS	120 + 10 Preparation of the Disertation Paper

		2.1.1	1st semester							2nd semester							Total academic year					
No.	Educational activities	Code/	1st module (7 weeks)				2nd module(7 weeks)				3rd module (7 weeks)				4th module (7 weeks)				1 '			
No.	Courses	Type Of courses	Cours	SLP	ECTS	Verif. form	Cours	SLP	ECTS	Verif. form	Cours	SLP	ECTS	Verif. form	Cours	SLP	ECTS	Verif. form	Cours	SLP	Indiv. stud.	ECTS
1.	Automatic learning	MINA101/DA	4	2L	7	Е													28	14	133	7
2.	Probabilities and statistics in medical systems	MINA102/DS	4	4L	8	Е													28	28	144	8
3.	Semantics and pragmatics of natural language	MINA103/DA					4	4L	8	E									28	28	144	8
4.	Research Methodology	MINA104/DS					2	4 _s	7	Е									14	28	133	7
5.	Data science using Python	MINA105/DA									4	4 _L	7	Е					28	28	119	7
6.	Artificial intelligence tools in the Cloud	MINA106/DA									4	2L	6	Е					28	14	108	6
7.	Ethics and academic integrity	MINA107/DS									2	0	3	E					14	0	61	3
8.	Advanced methods for data analysis	MINA108/DA													4	4L	7	Е	28	28	119	7
9.	Methods of biological inspiration in artificial intelligence	MINA109/DS													4	2L	7	Е	28	14	133	7
	GENERAL TOTAL	9 Compulsory	8	6	15	2E	6	8	15	2E	10	6	16	3E	8	6	14	2E	224	182	1094	60
	TOTAL HOURS/ECTS			14 hours/week ; 30 ECTS								15 hc	urs/w	reek ; 3	0 ECTS		l	406				

Forn	native categories	Activities
DF	Foundamental Cours	c Courses
DD	Technical Course	s Seminars
DS	Specialized Course	Ip Practical exercises
DC	Complementary Cour	p Project

CURRICULUM – 2nd YEAR 2024-2025

UNIVERSITY	George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș	PROGRAMME OF STUDY	Artificial Intelligence
FACULTY	Faculty of Engineering and Information Technologies	TITLE AWARDED	Master degree
FIELD OF STUDY	Informatics	OFFICIAL LENGHT OF THE PROGRAMME OF STUDY	2 years
LEVEL OF QUALIFICATION	7	NUMBER OF ECTS/SECT CREDITS	120 + 10 Preparation of the Disertation Paper

			1st semester								2nd semester							Total academic year				
No.	Educational activities	Code/	1st module (7 weeks)				2nd module(7 weeks)				3rd module (7 weeks)				Modul IV(7 weeks)							
No.	Courses	Type Of courses	Cours	SLP	ECTS	Verif. form	Cours	SLP	ECTS	Verif. form	Cours	SLP	ECTS	Verif. form	Cours	SLP	ECTS	Verif. form	Cours	SLP	Indiv. stud.	ECTS
1.	Intelligent systems	MINA201/DS	4	2 _L ,	7	Е													28	14	133	7
2.	Artificial intelligence in image processing	MINA202/DA	4	41 _P	8	Е													28	28	144	8
3.	Neural computation	MINA203/DA					4	21	7	Е									28	14	133	7
4.	Advanced Scientific Research leading to the Dissertation	MINA204/DA									4	2 _s	5	С					28	14	83	5
5.	Preparation of the Disertation Paper	MINA205/DA										51				51	10	С	-	70	180	10
6.	On site Training	MINA206/DA										5р				5р	10	С	-	70	180	10
7.	Artificial intelligence in IT security systems	MINA207/DS					4	41	8	Е									28	28	144	8
8.	IT entrepreneurship	MINA208/DS									4	21	5	С					28	14	83	5
	GENERAL TOTAL	6 Compulsory; 2 optional.	8	6	15	2E	8	6	15	2E	8	9+5	10	2C		5+5	20	2C	168	252	1080	60
	TOTAL HOURS/ECTS	/ECTS 14 hours/week ; 30 ECTS					11+5 hours/week; 30 ECTS								728							

Form	native categories	Activities
DF	Foundamental Cours	c Courses
DD	Technical Course	s Seminars
DS	Specialized Course	Ip Practical exercises
DC	Complementary Cour	p Project