

CURRICULUM – 1st YEAR 2023-2024

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

No.	Educational activities Courses	Code/ Type Of courses	1st semester								2nd semester								Total academic year			
			1st module (7 weeks)				2nd module(7 weeks)				3rd module (7 weeks)				4th module (7 weeks)							
			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	E													28	14	133	7
2.	Probabilities and statistics in medical systems	MINA102/DS	4	4L	8	E													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	4s	7	E									14	28	133	7
5.	Data science using Python	MINA105/DA									4	4L	7	E					28	28	119	7
6.	Artificial intelligence tools in the Cloud	MINA106/DA									4	2L	6	E					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	E	28	28	119	7
9.	Methods of biological inspiration in artificial intelligence	MINA109/DS													4	2L	7	E	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 hours/week ; 30 ECTS								406			

Formative categories		Activities			
DF	Foundamental Courses	c Courses			
DD	Technical Course	s Seminars			
DS	Specialized Course	lp Practical exercises			
DC	Complementary Course	p Project			

CURRICULUM – 2nd YEAR 2023-2024

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

No.	Educational activities Courses	Code/ Type Of courses	1st semester								2nd semester								Total academic year			
			1st module (7 weeks)				2nd module(7 weeks)				3rd module (7 weeks)				Modul IV(7 weeks)							
			Cours	SLP	ECTS	Verif. form	Cou rs	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	E													28	14	133	7
2.	Artificial intelligence in image processing	MINA202/DA	4	4 _{lp}	8	E													28	28	144	8
3.	Neural computation	MINA203/DA					4	2 _l	7	E									28	14	133	7
4.	Advanced Scientific Research leading to the Dissertation	MINA204/DA									4	2 _s	5	C					28	14	83	5
5.	Preparation of the Disertation Paper	MINA205/DA										5 _l				5 _l	10	C	-	70	180	10
6.	On site Training	MINA206/DA										5 _p				5 _p	10	C	-	70	180	10
7.	Artificial intelligence in IT security systems	MINA207/DS					4	4 _l	8	E									28	28	144	8
8.	IT entrepreneurship	MINA208/DS									4	2 _l	5	C					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			14 hours/week ; 30 ECTS								11+5 hours/week; 30 ECTS								728			

Formative categories		Activities			
DF	Foundamental Courses	c Courses			
DD	Technical Course	s Seminars			
DS	Specialized Course	lp Practical exercises			
DC	Complementary Cour	p Project			