CURRICULUM - 1st YEAR

2024-2025

UNIVERSITY	George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș	PROGRAMME OF STUDY	INFORMATICS
FACULTY	Faculty of Engineering and Information Technologies	TITLE AWARDED	INFORMATICS/BACHELOR IN COMPUTER SCIENCES
FIELD OF STUDY	INFORMATICS	OFFICIAL LENGHT OF THE PROGRAMME OF STUDY	3 years
LEVEL OF QUALIFICATION	6	NUMBER OF ECTS/SECT CREDITS	180

	Educational activities			1st semester										2nd	semeste	er			Total academic			ear
No.		Code/	1st	mod	ule (7	weeks)	2nd module(7 weeks)			3rd module (7 weeks)				4t	h modu	ıle (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.	Programming fundamentals	INFLR101/ DF	6	6L	8	E													42	42	116	8
2.	Fundamental algorithms	INFLR102/ DF	4	4L	6	Е													28	28	94	6
3.	Physical education 1	INFLR103/DC	-	2L	1	A/R													-	14	11	1
4.	English Language 1	INFLR104/ DC					-	45	3	С									-	28	47	3
5.	Mathematical analysis	INFLR105/DC					6	4S	7	E									42	28	105	7
6.	Computer architecture	INFLR106/ DF					4	4L	6	E									28	28	94	6
7.	Databases	INFLR107/ DS									4	4L	6	E					28	28	94	6
8.	Advanced programming methods	INFLR108/ DS									6	6L	8	E					42	42	116	8
9.	English Language 2	INFLR108/ DS									-	4S	3	С					-	28	47	3
10.	Structuri de date	INFLR110/ DF													4	4L	6	E	28	28	94	6
11.	Linear algebra, analytical and differential geometry	INFLR111/ DC													6	4S	7	Е	42	28	105	7
12.	Physical education 2	INFLR112/ DC													-	2L	1	A/R		14	11	1
	GENERAL TOTAL 12 compulsory		10	12	15	2E,A/R	10	12	16	2E,C	10	14	17	2E,C	10	10	14	2E,A/R	280	336	934	-
	TOTAL HOURS/ECTS			22hours/week; 31 ECTS							22hours/week; 31 ECTS							61	616		62	

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

CURRICULUM -2nd YEAR

2024-2025

George Emil Palade University of Medicine, Pharmacy,	PROGRAMME OF STUDY	INFORMATICS
Science, and Technology of Tärgu Mureș		
Faculty of Engineering and Information Technologies	TITLE AWARDED	INFORMATICS/BACHELOR IN COMPUTER SCIENCES
INFORMATICS	OFFICIAL LENGHT OF THE	3 years
	PROGRAMME OF STUDY	·
6	NUMBER OF ECTS/SECT CREDITS	180
	Science, and Technology of Târgu Mureș Faculty of Engineering and Information Technologies	Science, and Technology of Târgu Mureș Faculty of Engineering and Information Technologies INFORMATICS OFFICIAL LENGHT OF THE PROGRAMME OF STUDY

	Educational activities			1st semester										2nd	semest	er			Total academic yea			ear
N.		Code/	1st module (7 weeks)				2n	2nd module(7 weeks)				3rd module (7 weeks)				h modu	le (7 v	veeks)			· · · · · · ·	
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.	Object oriented programming	INFLR201/ DF	6	6L	7	Е													42	42	91	7
2.	Graph algorithm	INFLR202/ DF	4	4L	5	Е													28	28	69	5
3.	English Language 3	INFLR203/DC	-	2 S	1	С														14	11	1
4.	Operating systems	INFLR204/ DF					6	4L	6	E									42	28	80	6
5.	Advanced programming techniques	INFLR205/ DS					4	4L	6	E									28	28	94	6
6.	Programming environments and instruments *	INFLR206/DS					4	4L	5	E									28	28	69	5
7.	Numerical calculus	INFLR207/DS									4	4L	5	Ε					28	28	69	5
8.	Mathematical and computational logic	INFLR208/ DF									4	2S	4	Е					28	14	58	4
9.	Development of mobile applications *	INFLR209/DS									4	6LP	5	Е					28	42	55	5
10.	English Language 4	INFLR210/ DC														2S	1	С		14	11	1
11.	Differential equations and with partial derivatives	INFLR211/ DC													4	4S	5	Е	28	28	69	5
12.	Computer networks	INFLR212/ DF													4	4L	5	Е	28	28	69	5
13.	Physical education 3	INFLR213/DC													-	2L	1	A/R	-	14	11	1
14.	On-site Training	INFLR214/DS														4x30P	5	С		120	5	5
		12 compulsory+ 2 optional	10	12	13	2E,C	14	12	17	3E	12	12	14	3E	8	12	17	2E,2C, A/R	308	456	761	61
	TOTAL HOURS/ECTS		23 hours/week; 30 ECTS 22hours/week; 31 ECTS				76	54	<u> </u>													

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

CURRICULUM 3rd YEAR 2024-2025

UNIVERSITY	George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș	PROGRAMME OF STUDY	INFORMATICS
FACULTY	Faculty of Engineering and Information Technologies	TITLE AWARDED	INFORMATICS/BACHELOR IN COMPUTER SCIENCES
FIELD OF STUDY	INFORMATICS	OFFICIAL LENGHT OF THE PROGRAMME OF STUDY	3 years
LEVEL OF QUALIFICATION	6	NUMBER OF ECTS/SECT CREDITS	180

		C-d-/		1st semester								2nd sen	nester		Total academic year			
No.	Educational activities	Code/	1st ı	module	(7 we	eks)	2nd	2nd module(7 weeks)			3rd module (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
1.	Artificial intelligence	INFLR301/DF	6	6LP	8	E									42	42	116	8
2.	Probability and Statistics	INFLR302/ DF	4	6LS	6	E									28	42	80	6
3.	Computer graphics	INFLR303/DS					4	4S/4L	5	E					28	28	69	5
4.	Criptography	INFLR304/DS					4	4L	5	E					28	28	69	5
5.	Development of WEB applications	INFLR305/DS					4	4L	6	E					28	28	94	6
6.	Databases management systems	INFLR306/DS									2	2L	5	Е	20	20	85	5
7.	Formal Languages and Compilers	INFLR307/DF									3	2L	6	E	30	20	100	6
8.	Software Engineering	INFLR308/DF									2	2L/2S	5	E	20	20	85	5
9.	Information systems security	INFLR309/DF									3	3L	7	С	30	30	115	7
10.	Scientific and professional writing and communication	INFLR310/DF									2	1	3	С	20	10	45	3
11.	Preparation of the graduation paper	INFLR311/DS										4x25	4	С		100		4
		6compulsory+ 5 optional	10	12	14	2E	12	12	16	3E	12	10	30	3E,3C	274	368	858	60
	TOTAL HOURS/ECTS			23 hours/week; 30 ECTS				22 l	nours/we	ek;30 EC	TS	6	42					

Form	native categories	e categories	
DF	Foundamental Cours	ndamental Cours c Courses	
DD	Technical Course	hnical Course s Seminars	
DS	Specialized Course	cialized Course Ip Practical exercis	ses
DC	Complementary Cour	nplementary Cour p Project	



Disciplină opțională - Pachet 2 INF INFLR209/ DS Dezvoltarea aplicațiilor mobile

AN III

Disciplină opțională - Pachet 3 INF INFLR301/DF Inteligență artificială Disciplină opțională - Pachet 4 INF INFLR303/ DS Grafică pe calculator Disciplină opțională - Pachet 5 INF INFLR308/ DS Inginerie software

Disciplină opțională - Pachet 6 INF INFLR309/DF Securitatea sistemelor informatice

Disciplină opțională - Pachet 7 INF INFLR310/DC Redactare și comunicare științifică și profesională