CURRICULUM – 1th YEAR 2024-2025

UNIVERSITY	George Emil Palade University of Medicine, Pharmacy,	PROGRAMME OF STUDY	Industrial processes automation control systems								
	Science, and Technology of Târgu Mureș		,								
FACULTY	Faculty of Engineering and Information	TITLE AWARDED	Master degree								
	Technologies		-								
FIELD OF STUDY	Systems Engineering	OFFICIAL LENGTH OF THE	2 years								
		PROGRAMME OF STUDY									
LEVEL OF QUALIFICATION	7	NUMBER OF ECTS/SECT CREDITS	120 + 10 Preparation of the Disertation Paper								
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		Code/	1st semester								2nd semester									Total academic year			
No.	Educational activities	Туре	1st module (7 weeks)				2n	d mod	ule(7 w	reeks)	3rd module (7 weeks)				4th	modu	le (7 w	eeks)	, com assaudinio , cai				
	Courses	Of courses	Curs	SLP	ECTS	Verif. form	Curs	SLP	ECTS	Verif. form	Curs	SLP	ECTS	Verif. form	Curs	SLP	ECTS	Verif. form	Curs	SLP	Indiv. stud.	ECTS	
1.	Designing systems for monitoring processes	SAC101/DS	2	4 _L	4	E													14	28	58	4	
2.	FPGA Structures	SAC102/DS	4	4 _L	6	E													28	28	94	6	
3.	Industrial Advanced Processes Control	SAC103/DA					4	4 _L	6	Е									28	28	94	6	
4.	Image Processing in industrial systems	SAC104/DS					2	4 _L	4	Е									14	28	58	4	
5.	Professional practice I	SAC105/DS	-	12	-	-	0	12	10	С									0	168	82	10	
6.	Robust control systems	SAC106/DA									4	4_{LP}	5	Е					28	28	69	5	
7.	Instrumentation for control systems	SAC107/DA									4	2_{L}	4	E					28	14	58	4	
8.	Ethics and academic integrity	SAC108/DS									2	-	3	E					14	0	61	3	
9.	Intelligent and adaptive process control	SAC109/DA													4	4 _L	5	Е	28	28	69	5	
10.	Critical Infrastructures in Automation Systems	SAC110/DS													4	2 _L	3	С	28	14	33	3	
11.	Professional practice II	SAC111/DS									-	10	-	-	-	12	10	С	0	154	96	10	
GENERAL TOTAL		11 Compulsory;	6	8+12	10	2 E	6	8+12	20	2E;1C	10	6+10	12	3E	8	6+12	18	1E; 2C	210	518	772	60	
	TOTAL HOURS/ECTS		AI 14 + AP 12 hours/week; 30 ECTS									AI 15	+ AP	72	28								

CURRICULUM – 2th YEAR 2024-2025

UNIVERSITY	George Emil Palade University of Medicine, Pharmacy,	PROGRAMME OF STUDY	Industrial processes automation control systems								
	Science, and Technology of Târgu Mureș		,								
FACULTY	Faculty of Engineering and Information	TITLE AWARDED	Master degree								
	Technologies		-								
FIELD OF STUDY	Systems Engineering	OFFICIAL LENGTH OF THE	2 years								
		PROGRAMME OF STUDY									
LEVEL OF QUALIFICATION	7	NUMBER OF ECTS/SECT CREDITS	120 + 10 Preparation of the Disertation Paper								

	Educational activities Courses	Code/ Type Of courses	1st semester								2nd semester									Total academic year			
No.			1st module(7 weeks)				2n	2nd module (7 weeks)				3rd module(7 weeks)				mod	ule (7	weeks)	,				
NO.			Curs	SLP	ECTS	Verif. form	Curs	SLP	ECTS	Verif. form	Curs	SLP	ECTS	Verif. form	Curs	SLP	ECTS	Verif. form	Curs	SLP	Indiv. stud.	ECTS	
1.	Processes Control information systems	SAC201/DA	4	2 _L	4	Е													28	14	58	4	
2.	Embedded systems	SAC202/DS	4	4 _L	6	Е													28	28	94	6	
3.	Automation of cogeneration systems	SAC203/DS					4	4 _L	5	E									28	28	69	5	
4.	Professional training III	SAC204/DS	-	12			-	12	10	С									0	168	82	10	
5.	Advanced Scientific Research leading to the Dissertation	SAC205/DS									4	2 _S	5	С					28	14	83	5	
6.	Practice for the Dissertation Paper	SAC206/DS									-	10	-	-	-	13	12	С	0	161	139	12	
7.	Preparation of the Disertation Paper	SAC207/DS									-	10	-	-	-	13	13	С	0	161	164	13	
8.	Systems and platforms in the Internet of Things	SAC208/DA			_		2	4 _L	5	E	_		_						14	28	83	5	
	GENERAL TOTAL		8	6+12	10	2E	6	8+12	20	2E;1C	4	2+20	5	1C	0	26	25	2C	126	602	772	60	
TOTAL HOURS/ECTS			AI 14+AP 12 hours/week; 30 ECTS								AI 3+	AP 23	hours	/wee	k; 30	ECTS		72	28				