

CURRICULUM – 1st YEAR 2024-2025

UNIVERSITY	George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș	PROGRAMME OF STUDY	Computer Aided Design/Computer Aided Manufacturing
FACULTY	Faculty of Engineering and Information Technologies	TITLE AWARDED	Master degree
FIELD OF STUDY	Industrial engineering	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

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.	Engineering and Quality Management Systems	PFC101/DA	2	2L	4	E													14	14	72	4
2.	Performance materials	PFC102/DA	4	4L	5	E													28	28	69	5
3.	Professional practice I	PFC103/DS		14				10	10	C									0	168	82	10
4.	Parametric 3D modeling	PFC104/DS					4	4s2p	6	E									28	42	80	6
5.	Linear and nonlinear finite elements analysis	PFC105/DA					4	2s	5	C									28	14	83	5
6.	Advanced Modeling	PFC106/DS									4	4sp	5	E					28	28	69	5
7.	Computer aided design/generator of components	PFC107/DS										4sp	4	E					0	28	72	4
8.	Ethics and academic integrity	PFC108/DS									2		3	E					14	0	61	3
9.	Professional practice II	PFC109/DS										12				12	7	C	0	168	7	7
10.	Curves and surfaces - computation and representation	PFC110/DA													4	4sp	6	E	28	28	94	6
11.	Adaptive and smart control of industrial processes	PFC111/DS													4	2L	5	E	28	14	83	5
GENERAL TOTAL		10 Compulsory; 1 optional	6	6+14	9	2E	8	8+10	21	1E,2C	6	8+12	12	3E	8	6+12	18	2E,1C	196	532	772	60
TOTAL HOURS/ECTS			14AI+12AP hours/week ; 30 ECTS								14AI+12AP hours/week ; 30 ECTS								728			

Formative categories		Activities			
DF	Foundamental Cours	c Courses			
DD	Technical Course	s Seminars			
DS	Specialized Course	lp 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 Mureş	PROGRAMME OF STUDY	Computer Aided Design/Computer Aided Manufacturing
FACULTY	Faculty of Engineering and Information Technologies	TITLE AWARDED	Master degree
FIELD OF STUDY	Industrial engineering	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

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.	Stamps and Moulds Design	PFC201/DA	4	2 _L ,4 _P	6	E													28	42	80	6
2.	Hybrid Design	PFC202/DS	4	2 _P	5	E													28	14	83	5
3.	Professional training III	PFC203/DS		10				14	10	C									0	168	82	10
4.	Computer Aided Manufacturing	PFC204/DS					4	4 _{LP}	5	E									28	28	69	5
5.	Advanced Scientific Research leading to the Dissertation	PFC205/DS									4	2 _s	5	C					28	14	83	5
6.	Practice for the Dissertation Paper	PFC206/DS										10	5			13	7	C	0	161	139	12
7.	Preparation of the Disertation Paper	PFC207/DS										10	5			13	8	C (A/R)	0	161	164	13
8.	Ergonomic organization of work	PFC208/DS					2	2 _S	4	E									14	14	72	4
GENERAL TOTAL		7 Compulsory; 1 optional.	8	8+10	11	2E	6	6+14	19	2E, 1C	4	12+ 10	15	1C		13+ 13	15	2C	126	602	772	60
TOTAL HOURS/ECTS			14AI+12AP hours/week ; 30 ECTS								3AI+23AP hours/week; 30 ECTS								728			

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