

CURRICULUM

YEAR 1

Academic Year 2024/2025

No.	Course name	Course code	Course category	1st Semester							2nd Semester									
				Assisted activities*					Non-assisted activities (SI)**	Eval.	K	Assisted activities*					Non-assisted activities (SI)**	Eval.	K	
				No. of hours / week								No. of hours / week								
				C	S	L	P	PA				C	S	L	P	PA				
DI	1	Simularea producției/ Manufacturing Simulation Software	FAI-IA-101	DA	1		2			78	E	5								
	2	Cercetare experimentală asistată/ Computer Aided Experimental Research	FAI-IA-102	DS	1		3			64	E	5								
	3	Aplicații tehnologice ale fizicii/ Technological Applications of Physics	FAI-IA-103	DA	1		1			92	E	5								
	4	Etică și integritate academică/ Ethics and Academic Integrity	FAI-IA-104	DC	1	1				68	E	4								
	5	Laborator de proiectare-cercetare 1/ Design&Research Laboratory 1	FAI-IA-105	DS					12	0	VP	7								
	6	Sisteme de control și instrumentație virtuală/ Control Systems and Virtual Instrumentation	FAI-IA-106	DS									1		2			54	E	4
	7	Proiectare tehnologică avansată/ Advanced Computer Aided Technological Design	FAI-IA-107	DA									1		1			68	E	4
	8	Teoria avansată a sudurii / Advanced Welding Theory	FAI-IA-108	DS									2		1			54	E	4
	9	Procese neconvenționale de fabricație/ Non-Traditional Manufacturing Processes	FAI-IA-109	DA									2		1			54	VP	4
	10	Dezvoltarea durabilă a produselor/ Sustainable Product Development	FAI-IA-110	DS									1			1		68	VP	4
	11	Sisteme hidraulice și pneumatice/ Fluid Power Systems	FAI-IA-111	DC									2		1			30	C	3
	12	Laborator de proiectare-cercetare 2/ Design&Research Laboratory 2	FAI-IA-112	DS												10		28	VP	7
DO	13	Prelucrarea statistică a datelor/ Statistical Data Processing	FAI-IA-113	DA	2			1		54	E	4								
		Managementul riscului in fabricație/ Risk Management in Manufacturing	FAI-IA-114	DA																
DL	14	Abilități antreprenoriale*/ Entrepreneurial Skills*	FAI-IA-115	DC	1		1			44	C	3								
	15	Abilități profesionale de comunicare*/ Professional Communication Skills*	FAI-IA-116	DC									1			1		44	C	3
Number of hours per week for assisted activities, number and type of assessment activities and credit points per semester, and total hours of non-assisted activities				6	1	6	1	12	356	4E 1VP	30	9	0	6	1	10	356	3E 1C 3VP	30	
				14				12				16				10				
				26								26								

YEAR 2

Academic Year 2025/2026

No.	Course name	Course code	Course category	1st Semester								2nd Semester										
				Assisted activities*					Non-assisted activities (SI)**	Eval.	K	Assisted activities*					Non-assisted activities (SI)**	Eval.	K			
				No. of hours / week								No. of hours / week										
				C	S	L	P	PA				C	S	L	P	PA						
DI	1	Procese avansate de automatizare a producției/ Advanced Manufacturing Automation Processes	FAI-IA-201	DS	2		1			83	VP	5										
	2	Tehnologii avansate de fabricație a materialelor compozite/ Advanced Manufacturing Technologies of Composite Materials	FAI-IA-202	DA	2		1	1		69	E	5										
	3	Tehnologii avansate de sudare/ Advanced Welding Technologies	FAI-IA-203	DS	1		1			97	E	5										
	4	Inteligența artificială în producția industrială/ Artificial Intelligence in Manufacturing	FAI-IA-204	DS	1		2			83	E	5										
	5	Laborator de proiectare-cercetare 3/ Design&Research Laboratory 3	FAI-IA-205	DS					12	0	VP	7										
	6	Practică profesională/ Professional Training	FAI-IA-206	DS												10	110	VP	10			
	7	Elaborarea disertației/ Preparing of Master's Thesis	FAI-IA-207	DS												8	138	VP	10			
	8	Practică pentru disertație/ Master's Thesis Training	FAI-IA-208	DS												8	138	VP	10			
DO	9	Planificarea resurselor întreprinderii/ Enterprise Resource Planning	FAI-IA-209	DA	1			1		47	E	3										
		Dezvoltare durabilă prin inovare tehnologică/ Sustainable Development by Technological Innovation	FAI-IA-210	DA																		
Number of hours per week for assisted activities, number and type of assessment activities and credit points per semester, and total hours of non-assisted activities					7	0	5	2	12	379	3E 2VP	30	0	0	0	0	26	386	3VP	30		
					14				12				0				26					
					26				26													
Dissertation Exam					FAI-ED																E	10

* Assisted activities are fully assisted (C,S,L,P) and partly assisted (PA) and are conducted over 14 weeks.

** Non-assisted activities (SI) are calculated as total hours per academic year, by the credit points of the subjects; the exam sessions are also included.

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