

Tipul programului: **Master Profesional**

Titlul absolventului: Master în inginerie industrială

Durata studiilor: 2 ani, 120 credite de studiu

Forma de învățământ: cu frecvență

CURRICULUM

YEAR 1

Academic Year 2023/2024

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												
	14 Managementul riscului în fabricație/ Risk Management in Manufacturing	FAI-IA-114	DA																				
DL	15 Abilități antreprenoriale* / Entrepreneurial Skills*	FAI-IA-115	DC	1	1				44	C	3												
	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				9	0	6	1	10							
				14					12	356	4E	1VP	30	16					10	356	3E	1C	30
				26									26										

YEAR 2

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 Procese avansate de automatizare a producției/ Advanced Manufacturing Automation Processes	FAI-IA-201	DS	2	1				78	VP	5											
	2 Tehnologii avansate de fabricație a materialelor compozite/ Advanced Manufacturing Technologies of Composite Materials	FAI-IA-202	DA	2	1	1			64	E	5											
	3 Tehnologii avansate de sudare/ Advanced Welding Technologies	FAI-IA-203	DS	1	1				92	E	5											
	4 Inteligența artificială în producția industrială/ Artificial Intelligence in Manufacturing	FAI-IA-204	DS	1	2				78	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	100	VP	10					
	7 Elaborarea disertației/ Preparing of Master's Thesis	FAI-IA-207	DS											8	128	VP	10					
	8 Practică pentru disertație/ Master's Thesis Training	FAI-IA-208	DS											8	128	VP	10					
DO	9 Planificarea resurselor întreprinderii/ Enterprise Resource Planning	FAI-IA-209	DA	1				1	44	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				0	0	0	0	26						
				14					12	356	3E	2VP	30	0					26	356	3VP	30
				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 (24 hours per credit point); the exam sessions are also included.