

„GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IASI
FACULTY OF MACHINE MANUFACTURING AND INDUSTRIAL MANAGEMENT

Field of study: **Industrial Engineering**

Programme of Study: **ADVANCED MANUFACTURING TECHNOLOGIES**

Conferred title: Master degree

Study duration: 4 semesters

Form of education: *full-time*

CURRICULUM

YEAR 1

2019/2020

TYPE	No.	Course name	Course code	Prerequisites	Semester 1						Semester 2											
					No of hours / week / course						Eval.	K	No of hours / week / course						Eval.	K		
					C	S	L	P	PA	SI*			C	S	L	P	PA	SI*				
MC	1	Technical Project Management	AI,MTP,TAF-IA-101		2	0	0	1		78	E	5										
MC	2	Electrophysical Manufacturing Technologies	TAF-IA-102		1	0	1	1		54	E	4										
MC	3	Advanced Machining and Assembling Technologies	TAF-IA-103		2	0	0	1		78	E	5										
MC	4	Advanced Welding Technologies	TAF-IA-104		1	0	1	0		68	E	4										
MC	5	Dynamic Systems in Mechanical Engineering	TAF-IA-105		2	0	1	0		78	C	5										
MC	6	Design-Research Laboratory 1	TAF-PA-106						12	0	VP	7										
MC	7	Computer Aided Manufacturing Technologies	MTP,TAF-IA-107										2	0	2	0		88	E	6		
MC	8	Sustainable Product and Process Development	TAF-IA-108										2	0	1	1		64	E	5		
MC	9	Technological Innovation	AI, MTP,TAF- IA-109										2	0	0	1		78	E	5		
MC	10	Fundamentals of Scientific Research	MTP, TAF-IA-110										1	1	0	1		78	E	5		
MC	11	Ethics and Integrity	CMMI-IA-111										1	1	0	0		20	C	2		
MC	12	Design-Research Laboratory 2	TAF-PA-112														10	28	VP	7		
FC	13	Manufacturing Technologies for Plastic Products	TAF-IA-113		2	0	0	2		88	E	6										
FC	14	Industrial Design	TAF-IA-114										2	0	0	1		78	E	5		
		Total hours per week, total evaluations and credits per semester				8	0	3	3	12			3E		8	3	2	3	10		4E	
						14			12	356	1C	30	16			10	356	1C	30			
						26					1VP		26				1VP					

Abbreviation: MC - Mandatory Course; OC - Optional Course; FC - Free Course; SI - Individual (Non Assisted) Study;

PA - Partially Assisted; C – Course; S – Seminary; L – Laboratory; P - Project

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CURRICULUM

YEAR 2

2020/2021

TYPE	No.	Course name	Course code	Prerequisites	Semester 1						Semester 2											
					No of hours / week / course						Eval.	K	No of hours / week / course						Eval.	K		
					C	S	L	P	PA	SI*			C	S	L	P	PA	SI*				
MC	1	Production Management in SMEs	TAF-IA-201		2	0	0	1		78	E	5										
MC	2	Industrial Ecology	AI,TAF-IA-202		1	0	0	1		68	C	4										
MC	3	Strategic Management of Manufacturing	AI,MTP,TAF- IA-203		2	0	0	1		54	E	4										
MC	4	Design-Research Laboratory 3	TAF-PA-204						12	0	VP	7										
MC	5	Professional/Design Practical Training	TAF-PA-205													12	72	VP	10			
MC	6	Master's Thesis Elaboration	TAF.PA.206												14	284	VP	20				
OC	7	Advanced Cold Forming Technologies and Equipment	TAF-IA-207		2	0	1	0		78	E	5										
		Additive Manufacturing Technologies	TAF-IA-208																			
OC	8	Advanced Parametric Design	TAF-IA-209		1	0	2	0		78	E	5										
		Virtual Testing and Validation in Engineering	TAF-IA-210																			
FC	9	Occupational Safety and Health	TAF-IA-211		1.5	2	0	0		78	E	5										
FC	10	Enterprise Resources Planning	TAF-IA-212		1.5	0	0	2		78	E	5										
		Total hours per week, total evaluations and credits per semester				8	0	3	3	12		4E		0	0	0	0	26				
						14			12	356		1C	30		0			26	356	2VP	30	
						26						1VP			26							
MC	11	Master's Thesis Exam	TAF-ED																E	10		

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