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

Field of study: **Industrial Engineering**
Programme of Study: **COMPUTER-AIDED DESIGN AND MANUFACTURING**
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 No of hours / week / course C	S	L	P	PA	SI*	Eval.	K	Semester 2 No of hours / week / course C	S	L	P	PA	SI*	Eval.	K
MC	1	Mathematical Basis of Finite Element Method	CFAC, MFA, SMM-IA-101		2	1	0	0		78	C	5								
MC	2	Elements of Technological Physics	CFAC, MFA, MTP, SMM-IA-102		2	0	1	0		78	E	5								
MC	3	Computer Integrated Manufacturing Systems	CFAC,SMM-IA-103		2	0	1	1		112	E	7								
MC	4	Computer-Aided Modelling and Simulation in Manufacturing Systems	CFAC,SMM-IA-104		2	0	1	1		88	E	6								
MC	5	Design-Research Laboratory 1	CFAC-PA-105						12	0	VP	7								
MC	6	Finite Element Analysis in Mechanical Engineering	CFAC, MFA, SMM-IA-106										2	0	2	0		88	E	6
MC	7	Quality Engineering and Management in Manufacturing Systems	CFAC-IA-107										2	0	1.5	0		54	E	4
MC	8	Computer-Aided Product Development	CFAC-IA-108										2	0	1	0		78	C	5
MC	9	Ethics and Integrity	CMMI-IA-111										1	1	0	0		20	C	2
MC	10	Design-Research Laboratory 2	CFAC-PA-112														10	28	VP	7
OC	11	Computer-Aided Experimental Research / Dynamic Stability of Manufacturing Systems	CFAC-IA-113 / CFAC-IA-114										2		2			88	E	6
FC	12	Industrial Design	CFAC-IA-115		1	0	1	0		44	C	3								
FC	13	Concurrent Engineering	CFAC-IA-116										2		1.5			78	E	5

Total hours per week, total evaluations and credits per semester

Semester 1: C 8, S 1, L 3, P 2, PA 12 — 14 — 26; SI 356; Eval. 3E 1C 1VP; K 12, 30

Semester 2: C 9, S 1, L 6.5, P 0, PA 10 — 16 — 26; SI 356; Eval. 3E 2C 1VP; K 10, 30

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; **K** - no of credits

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CURRICULUM

YEAR 2   **2020/2021**

TYPE	No.	Course name	Course code	Prerequisites	Semester 1 No of hours / week / course						Eval.	K	Semester 2 No of hours / week / course						Eval.	K
					C	S	L	P	PA	SI*			C	S	L	P	PA	SI*		
MC	1	Resource Planning in Manufacturing Systems	CFAC-IA-201		1.5	0	1.5	0		78	E	5								
MC	2	Computer-Aided Maintenance in Manufacturing Systems	CFAC-IA-202		1.5	0	1.5	0		78	C	5								
MC	3	Special Tools and Modular Fixtures	CFAC-IA-203		2	0	1	1		112	E	7								
MC	4	Design-Research Laboratory 3	CFAC-PA-204						12	0	VP	7								
MC	5	Practical Training in Engineering Research	CFAC-PA-205														12	72	VP	10
MC	6	Master's Thesis Elaboration	CFAC-PA-206														14	284	VP	20
OC	7	Intelligent Manufacturing Systems	CFAC-IA-207		2	0	1	1		88	E	6								
OC	7	Computer-Aided Optimal Design and Manufacturing	CFAC-IA-208		2	0	1	1		88	E	6								
FC	8	Innovation and Creativity Techniques	CFAC-IA-209		1	1	0	0		20	C	2								
		Total hours per week, total evaluations and credits per semester			7	0	5	2	12	356	3E 1C 1VP	30	0	0	0	0	26	356	2VP	30
					14				12				0				26			
					26								26							
MC	9	***Master's Thesis Exam***	CFAC-ED																E	10

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