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

Field of study: Mechanical Engineering

Programme of Study: Applied Fluid Mechanics

Conferred title: Master Degree Study duration: 4 semesters Form of education: full-time

CURRICULUM

YEAR 1 2019/2020

TYPE		. Course name		Se					mest					er 2						
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	No.		Course code	Ξ			C	ours	e						CC	urse				
							١.	_	'	OI#	Eval.	K			١.			SI*	Eval.	K
				Prerequ	С	S	L	Р	PA	SI*			С	S	┞┖	P	PA	SI"		
DI	1	Mathematical Basis of Finite Element Method	CFAC,MFA-SMM-IA-101	-	2	1	0	0	0	78	Е	5								
DI	2	Elements of Technological Physics	CFAC,MFA-SMM-IA-102	-	2	0	1	0	0	78	E	5								
DI	3	Computer-Aided Fluid Engineering 1	MFA-IA-103	-	2	0	2	0	0	112	Е	7								
DI	4	Design-Research Laboratory 1	MFA-PA-104	-	0	0	0	0	12	0	VP	7								
DI	5	Boundary Layer and Turbulence	MFA-IA-105	-									2	1	0	0	0	78	Е	5
DI	6	Finite Element Analysis in Mechanical Engineering	CFAC,MFA,SMM-IA-106	-									2	0	2	0	0	88	Е	6
DI	7	Hydrodynamic Processes in Control Devices	MFA-IA-107	-									2	0	0	1,5	0	71	Е	5
DI	8	Design-Research Laboratory 2	MFA-PA-108	-									0	0	0	0	10	28	VP	7
DI	9	Ethics and Integrity	CMMI-IA-111	-									1	1	0	0	0	20	C	2
DO	10	Real-Time Measuring and Monitoring of Fluid Parameters	MFA-IA-112	-	2	0	1	1	0	88	E	6								
DO		Pneumatic Systems and Equipment	MFA-IA-113	-	2	0	1	1	0	88	E	6								
DO	11	Computer-Aided Fluid Engineering 2	MFA-IA-114	-									1,5	0	2	0	0	71	Е	5
DO		Advanced Turbomachinery Hydrodynamics	MFA-IA-115	-									1,5	0	2	0	0	71	E	5
DL	12	Complements of Fluid Mechanics	MFA-IA-116	-	2	1	1	0	0	88	E	6								
DL	13	Basics of Turbomachinery Hydrodynamics	MFA-IA-117	-									2	1	1	0	0	71	Е	5
		Total hours per week, total evalua			12		6	2	12		6E		9	3	7	0	10		6E	
		and credits per semester				22 12			532	0C	42					498	1C	40		
		and	and credits per semester				24				1VP		29					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 2019/2020

TYPE		c. Course name		Se					mest	-			Semester 2											
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	No.		Course code	l ii	course] !		course					1	ا ا					
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				Pre	С	S	L	Р	PA	SI*			С	S	┞┖	P	PA	SI*						
MC	1	Dynamics of Polyphase Fluids	MFA-IA-201	-	1,5	0	0	1,5	0	78	Е	5												
MC	2	Modelling of Dluid Power Systems	MFA-IA-202		2	0	1	1	0	88	E	6												
MC	3	Systems and Equipment for Water and Air Depollution	MFA-IA-203	-	2	0	0	1,5	0	95	E	6												
MC	4	Design-Research Laboratory 3	MFA-IA-204	-	0	0	0	0	12	0	VP	7												
MC	5	Practical Training in Engineering Research	MFA-PA-205										0	0	0	0	12	72	VP	10				
MC	6	Master's Thesis Elaboration	MFA-PA-206										0	0	0	0	14	284	VP	20				
ос	7	Wind Turbine Design	MFA-IA-208		2	0	0	1,5	0	95	E	6												
	,	Aerodynamics of Aircraft Propulsion Systems	MFA-IA-209		2	0	0	1,5	0	95	E	6												
FC	8	Generalized Models in Fluid Mechanics	MFA-IA-210		2	2	0	0	0	88	E	6												
MC	9	Master's Thesis Exam	CFAC-ED							-	-								Е	10				
		Total hours per week, total evaluations			10	2	1	1	12		4E		9	2	2	3.5	10		4E					
		· '				1	4		12	539	1C	42	16				10	356	2C	40				
		and credits per semester					26				1VP		26						1VP					

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