

“GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IAȘI

FACULTY OF ELECTRICAL ENGINEERING

Domain: Electrical Engineering

Specialization: Advanced Electrical Systems

Graduate title: Master in Electrical Engineering

Length of studies: 2 years

Form of education: with frequency

EDUCATIONAL PROGRAMME

YEAR I

Nr. crt.	Course title	Course code UTI.EH.IM	Con- ditio- nings	1st Semester						2nd Semester							
				Hours No. /week./ course					V	K	Hours No. /week./ course					V	K
				C	S	L	P	SI			C	S	L	P	SI		
DA*	101	Machines with static commutation	SEA.101.DA.DI		2	1	1	8	E	9							
	102	Electromagnetic and thermal modeling of electrical systems	SEA.102.DA.DI		2	1	1	7	E	8							
	103	Specialized software for electromechanical systems	SEA.103.DA.DI		1	2		5	C	6							
	104	Modern switching, control and protection systems of the electrical apparatus	SEA.104.DA.DI		2			1	6	E	7						
	105	Dynamic regimes of the electrical machines	SEA.105.DA.DI	C1								2	1	6	E	7	
DS**	106	Protection of low voltage electrical installations	SEA.106.DS.DI									2	2	7	E	8	
	107	Electric systems for traction and automobiles	SEA.107.DS.DI									2	1	1	7	E	8
	108	Microelectromechanical systems	SEA.108.1.DS.DO									2		1	6	E	7
DL	109	Nonconventional electrical machines	SEA.108.2.DS.DO														
Total hours per week, total tests number per semester and total credits per semester, for DA and DS					7	1	4	2	26	3E 1C	30	8	4	2	26	4E	30
					14			26				14			26		

*DA – focusing courses; **DS – synthesis courses

Conditionings	Previous compulsory discipline	
	Naming	Code
C1	Specialized software for electromechanical systems	SEA.103.DA.DI
C2		
C3		

DEAN,

Prof.univ.dr.ing. Marinela Temneanu

RECTOR,

Prof.univ.dr.ing. Dan Cascaval

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EDUCATIONAL PROGRAMME

YEAR II

	Nr. crt.	Course title	Course code UTI.EH.IM	Con- ditio- nings	1st Semester						2nd Semester							
					Hours No. /week./ course					V	Hours No. /week./ course							
					C	S	L	P	SI		C	S	L	P	SI			
DA*	201	Modern command and control systems of the AC electrical machines	SEA.201.DA.DI		2		1	1	2	E	5							
	202	Optimization of the electrical machines	SEA.202.DA.DI		2		1	1	3	E	5							
DS**	203	Sustainable development and ecodesign of electrotechnical products	SEA.203.DS.DI		2			1	2	E	4							
	204	Intelligent electrical apparatus	SEA.204.1.DS.DO															
		Modeling and simulation of electrical apparatus	SEA.204.2.DS.DO		2		1		3	E	4							
	206	Scientific research ***	SEA.205.DS.DI					4	12	C	12							
	207	Research practice. Development of the dissertation project ****	SEA.206.DS.DI										14h/week x14weeks	26	C	30		
Total hours per week, total tests number per semester and total credits per semester, for DA and DS					8		3	7	22	4E	30			1 C	30	9		5
					18			22				14		26				

*DA – focusing courses; **DS – synthesis courses

*** One performs to the dissertation thesis advisor, who will do the evaluation.

**** One performs to the dissertation thesis advisor, who will do the evaluation. The condition for admission to the final dissertation examination is the fulfilling of all the 120 credits during schooling. Successfully defense of the dissertation thesis will bring another 10 credits.

Conditionings	Previous compulsory discipline	
	Naming	Code
C1		
C2		

DEAN,

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