Domain of study	Level (BA/MA)	Study programme	Year of study (I, II)	Semester (1, 2, 3, 4)	Course title	Cred
		1	(1, 11)	(1, 2, 3, 1)		unit
					Integrated systems of electromechanical conversion	4
					Energy management and energy efficiency	5
					Renewable Energy Sources	4
					Practice and / or scientific research activity - 1	9
					Optional 1.1	4
					Optional 1.2	4
					Optional 1.1 - 1.2 – 1 semester (choose one discipline	e from each
			1 package 1 Package 1. Rational use of energy in shipping 2. Rational distribution of electrical energy 3. Rational use of energy in the steel indu	1	package)	
					Package A	
				1. Rational use of energy in shipping		
					2. Rational distribution of electrical energy	
	МА	Energy efficiency			3. Rational use of energy in the steel industry	
					Package B	
					1. Customer relationship management	
			I		2. Environmental management	
Electrical				E	Eco-design of energy conversion systems	5
engineering		and renewable sources (UEERS)			Practice and / or scientific research activity - 2	9
		sources (UEEKS)			Optional 2.1	4
					Optional 2.2	4
					Optional 2.3	4
					Optional 2.4	4
					Optional 2.1 – 2.4 - 2 semester (choose one discipline	e from each
					package)	
				2	Package A	
					1. Electrical installations and marine drives	
					2. Modeling and simulation of power stations	
					3. Installations in the steel industry	
					Package B	
					1. Marine Electrical Automation	
					2. Protection and automation in electrical networks	
					3. Drives and automation in steel	
					Package C	

Domain of study	Level	Study programma	Year of study	Semester	Course title	Credit
Domain of study	(BA/MA)	Study programme	(I, II)	(1, 2, 3, 4)	Course title	units

					1. Energy audit	
					2. Sources of pollution and combat pollution	
					Package D	
					1. Electrical equipment standardization and legalization	
					2. Power quality and EMC	4
					Energy Conversion Systems	4
					Project Management	4
					Ethics and academic integrity	4
					Design and implementation control structures for converter-	4
					machine systems	
					Practice and / or scientific research activity - 3	6
					Optional 3.1	4
	MA				Optional 3.2	4
				2	Optional 3.1 – 3.2 - 2 semester (choose one discipline from	n each
			Π	3	package)	
		Energy efficiency and renewable sources (UEERS)			Package A	
Electrical					1. Wind turbines and minihidro	
engineering					2. Hydrogen and fuel cells	
88					3. Intelligent power supply systems of buildings	
					Package B	
					1. Cogeneration and trigeneration systems	
					2. Solar and photovoltaic systems	
					3. Energy efficiency of buildings	
				4	Scientific research activity	15
					Elaboration of dissertation thesis (master thesis)	15
			I	1	Advanced control techniques	6
	МА				Renewable Energy Sources	5
Electrical engineering		Power electronics			Integrated systems of electromechanical conversion	5
		and advanced conversion systems (PEACS)			Energy management and energy efficiency	6
					Practice and / or scientific research activity - 1	8
					Modeling and simulation of power electronic systems	5
				2	Signal processors and microcontrollers	

Domain of study	Level (BA/MA)	Study programme	Year of study (I, II)	Semester (1, 2, 3, 4)	Course title	Credi units
		1				
					Real-time models for the electromechanical conversion	5
					Design principles of electrical and electronic power equipment	4
					Numerical control of static converters	4
					Practice and / or scientific research activity - 2	8
					Advanced power electronics applications	4
			Π		Design and implementation control structures for converter- machine systems	4
					Energy Conversion Systems	4
					Project Management	4
				3	Ethics and academic integrity	4
Electrical		Power electronics and advanced			Practice and / or scientific research activity - 3	6
engineering	MA	conversion			Optional 3.1	4
		systems (PEACS)			Optional 3.1 - 3 semester (choose one discipline of	3)
					1. Principles regarding structure of converter-machine systems	
					2. Design and implementation control structures for converter-r systems	ıetwork
					3. Visual control of systems	
					Scientific research activity	15
					Elaboration of dissertation thesis (master thesis)	15
	MA	Advanced automatic control informatics systems (AACIS)	I -	1	Data monitoring and diagnostics	5
					Adaptive systems	5
					Intelligent automatic control informatics systems	5
					Ethics and academic integrity	5
					Design research in advanced automatic control	4
Systems					Research and design practice 1	6
engineering				2	Advanced optimization informatics systems	5
					Advanced automatic control informatics systems for robots	5
					Robust techniques advanced automatic control	5
					Designing user interfaces in advanced automatic control	5
					Design research in advanced automatic control	4
					Research and design practice 2	6

Domain of study	Level (BA/MA)	Study programme	Year of study (I, II)	Semester (1, 2, 3, 4)	Course title	Credit units
Systems engineering	MA	Advanced automatic control informatics systems (AACIS)	II	3	Advanced programming in distributed automatic control systems Computer techniques in the automatic control of hybrid systems Structures, architectures and programming of real-time advanced automatic control Advanced automatic control Advanced automatic control systems in biotechnological processes Design research in advanced automatic control Research and design practice 3	5 5 5 5 5 4 6
				1	Research and design practice 4	15
				'	Development dissertation	15