STUDY PLAN MASTER M1 (EPA) 2021-2023

POWER ELECTRONICS AND INTELLIGENT DRIVE SYSTEMS

1st year – Compulsory subjects

			1 st	sem	este	r - 14 we	eeks		2^{nd}	Evaluation				
	Subject	C S	L	Р	Indiv. Prep.	ECTS	С	S	L	Р	Indiv. Prep.	ECTS	(E/C)	
EPA+SEA	Advanced Mathematics	1	2	-	-	3	4							E1
EPA+SEA	Special Topics in Electrical Engineering	2	2	-	-	3	5							E1
EPA	Modelling of Electromechanical Converters	2	-	2	-	3	5							E1
EPA	Spectral Analysis and Numerical Filtering	2	2	-	-	4	6							E1
EPA	Research/Practice 1	-	-	-	-	12	10							C1
EPA	Parameter Estimation in Electric Drives							2	-	1	-	2	4	E2
EPA	Modelling and Control of Power Converters							2	-	1	1	3	5	E2
EPA	DSP Controllers for Electric Drives							2	-	-	2	2	4	E2
EPA	Thermal Stability of Electric and Electronic Systems							2	-	1	-	2	4	E2
EPA	Electric Automobile							2	-	1	-	2	3	C2
EPA	Research/Practice 2							-	-	-	-	12	10	C2
	Total	7	6	2	0	25		10	0	4	3	23		
	Total			ch 15		25 ek (of ching	30				teac	23 k (of ching	30	

1st year – Freely chosen subjects (facultative)

			1 st	sem	ester	: - 14 we	eks		2 nd	Evaluation				
	Subject	С	S	L	Р	Indiv. Prep.	ECTS	С	S	L	Р	Indiv. Prep.	ECTS	
EPA+IEIA+ IPSE+ISEIA+ SEA+SIIM	Design and Management of Educational Programs	2	1	-	-	2	5							E1
EPA+IEIA+ IPSE+ISEIA+ SEA+SIIM	Psycho-pedagogy of Adolescents, Young People and Adults							2	1	_	-	2	5	E2
EPA+IEIA+ IPSE+ISEIA+ SEA+SIIM	Counseling and guidance							1	2	-	-	2	5	E2
	Total	2	1	0	0	2	5	3	3	0	0	4	10	
	Total	2		1		2	5	3		3		4	10	

	2 nd year – Compulsory subjects													
	Subject		1 st	sei	nes	ter - 14	weeks		2 ⁿ	Evaluation (E/C)				
	Subject	С	S	L	Р	Indiv. Prep.	ECTS	С	s	L	Р	Indiv. Prep.	ECTS	
EPA	Techniques and Equipments for Power Quality	2	-	2	-	3	5							E3
EPA	Motion Digital Control	2	I	2	I	2	4							E3
EPA	Control, Monitoring and Diagnosis of Electric Drives	2	-	2	-	3	5							E3
EPA	Virtual Instrumentation in Power Static Converters	1	-	1	-	2	3							C3
EPA+SEA	Legislation and Standards in Electrical Engineering	1	1	-	-	2	3							C3
EPA	Research/Practice 3	-	-	1	-	12	10							C3
EPA	Research/Practice for Dissertation Thesis Elaboration							-	-	-	-	27	28	C4
EPA+IEIA+ IPSE+SEA+ SIIM	Ethics and Academic Integrity							1	-	-	-	-	2	C4
	Total	8	1	7	0	24		1	0	0	0	27		
				8		24	30	1		0		27	30	
	Total			ch 1	ours/week (of h 16 teaching hours)			28 hours/v which 1 t			aching			

2nd year – Freely chosen subjects (facultative)

			1 st	sem	ester	r - 14 we	eeks		2 nd	Evaluation				
	Subject	С	S	L	Р	Indiv. Prep.	ECTS	С	S	L	Р	Indiv. Prep.	ECTS	(E/C)
EPA+IEIA+ IPSE+ISEIA+ SEA+SIIM	Didactics of the domain and developments in the didactics of the specialization (in High School and Secondary and Tertiary Settings)	2	1	-	-	2	5							E3
EPA+IEIA+ IPSE+ISEIA+ SEA+SIIM	Intercultural Education	1	2	-	-	2	5							E3
EPA+IEIA+ IPSE+ISEIA+ SEA+SIIM	Teaching Practice (in High School and Secondary and Tertiary Settings)							-	-	3	-	2	5	C4
EPA+IEIA+ IPSE+ISEIA+ SEA+SIIM	Graduation exam, Level II							-	-	-	-	6	5	E4
	Total	3	3	0	0	4	10	0	0	3	0	8	10	
	Total	3		3		4	10	0		3		8	10	

RECTOR,

DEAN,

Mihnea COSTOIU

Assoc. Prof. PhD. Eng. Dragoș NICULAE