

STUDY PLAN MASTER M3 (SEA) 2021-2023
ADVANCED ELECTRICAL SYSTEMS

1st year – Compulsory subjects

	Subject	1 st semester - 14 weeks						2 nd semester - 14 weeks						Evaluation (E/C)
		C	S	L	P	Indiv. Prep.	ECTS	C	S	L	P	Indiv. Prep.	ECTS	
SEA+EPA	Advanced Mathematics	1	2	-	-	3	4							E1
SEA+EPA	Special Topics in Electrical Engineering	2	2	-	-	3	5							E1
SEA	Renewable Energy Sources	2	-	2	-	3	5							E1
SEA	Smart Power Grid Technology	2	-	2	-	4	6							E1
SEA	Research/Practice 1	-	-	-	-	12	10							C1
SEA+IPSE	Optimal Design Electrical Machines							2	-	-	2	3	5	E2
SEA	Integrated Design of Electrical Installations							1	-	-	2	2	4	E2
SEA	Advanced Power Electronics Systems							2	-	1	-	2	4	E2
SEA	Switching Equipments in Electrical Systems							2	-	1	-	2	3	E2
SEA	Maintenance and Monitoring of Industrial Electrical Equipments							2	-	2	-	2	4	E2
SEA	Research/Practice 2							-	-	-	-	12	10	C2
	Total	7	4	4	0	25		9	0	4	4	23		
	Total	7	8			25	30	9	8			23	30	
		40 hours/week (of which 15 teaching hours)				40 hours/week (of which 17 teaching hours)								

1st year – Freely chosen subjects (facultative)

	Subject	1 st semester - 14 weeks						2 nd semester - 14 weeks						Evaluation (E/C)
		C	S	L	P	Indiv. Prep.	ECTS	C	S	L	P	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	

2nd year – Compulsory subjects

	Subject	1 st semester - 14 weeks						2 nd semester - 14 weeks						Evaluation (E/C)
		C	S	L	P	Indiv. Prep.	ECTS	C	S	L	P	Indiv. Prep.	ECTS	
SEA	Advanced Electric Drives	2	-	1	-	3	4							E3
SEA	Autonomous Electrical Systems	2	-	1	-	2	4							E3
SEA	Biomedical Electrical Equipments	1	-	1	-	1	2							C3
SEA	High Voltage Technology	1	-	1	-	1	2							C3
SEA	Assessment of Electric Systems Impact on the Environment	2	-	2	-	3	5							E3
SEA+EPA	Legislation and Standards in Electrical Engineering	1	1	-	-	2	3							C3
SEA	Research/Practice 3	-	-	-	-	12	10							C3
SEA	Research/Practice for Dissertation Thesis Elaboration											27	28	C4
SEA+EPA+ IEIA+IPSE+ SIIM	Ethics and Academic Integrity							1					2	C4
	Total	9	1	6	0	24		1	0	0	0	27		
	Total	9	7			24	30	1	0			27	30	
		40 hours/week (of which 16 teaching hours)				28 hours/week (of which 1 teaching hour)								

2nd year – Freely chosen subjects (facultative)

	Subject	1 st semester - 14 weeks						2 nd semester - 14 weeks						Evaluation (E/C)
		C	S	L	P	Indiv. Prep.	ECTS	C	S	L	P	Indiv. Prep.	ECTS	
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,

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