

STUDY PLAN MASTER M6 (ISEIA) 2021-2023
INTEGRATED ELECTRICAL SYSTEMS ENGINEERING IN VEHICLES

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	
ISEIA	Development and Management of Object Oriented Software Projects	2	-	2	-	3	4							E1
ISEIA	Power Electronics Structures and Controls	2	-	2	-	2	4							E1
ISEIA	Systems Engineering Management	2	-	1	-	2	4							E1
ISEIA	Electromagnetic Compatibility in Distributed Systems	2	-	1	-	2	4							C1
ISEIA	Vehicle Dynamics and Mechanics	2	-	1	-	2	4							E1
ISEIA	Research/Practice 1	-	-	-	-	12	10							C1
ISEIA	Interconnecting Devices and Interfaces							2	-	2	-	3	5	E2
ISEIA	Sensors and Transducers for Vehicles							2	-	2	-	4	5	E2
ISEIA	Electric Propulsion Systems for Vehicles							2	-	2	-	3	5	E2
ISEIA	Vehicle Architecture							1	-	2	-	3	5	E2
ISEIA	Research/Practice 2							-	-	-	-	12	10	C2
	Total	10	0	7	0	23		7	0	8	0	25		
	Total	10	7			23	30	7	8			25	30	
		40 hours/week (of which 17 teaching hours)						40 hours/week (of which 15 teaching hours)						

1st year – Freely chosen subjects (facultative) - taught only in Romanian language

	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	
ISEIA	Security and Functional Safety of Vehicle Electrical Systems	1	-	1	-	2	4							C3
ISEIA	Numerical Simulation of Embedded Systems	2	-	2	-	3	4							E3
ISEIA	Modeling, Simulation, Programming and Testing of Integrated Electromechanical Systems	2	-	2	-	3	4							E3
ISEIA	Materials, Specific Technologies and Vehicles Environment Impact	2	-	1	-	2	4							E3
ISEIA	Integrated Data Acquisition Systems	1	-	2	-	2	4							C3
ISEIA	Research/Practice 3	-	-	-	-	12	10							C3
ISEIA	Research/Practice for the Dissertation							-	-	-	-	27	28	C4
ISEIA	Ethics and academic integrity							1	-	-	-	-	2	C4
	Total	8	0	8	0	24		1	0	0	0	27		
	Total	8	8			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) - taught only in Romanian language

	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,

Mihnea COSTOIU

DEAN,

Assoc. Prof. PhD. Eng. Dragoş NICULAE