

Transilvania University of Braşov, Romania

Study program: Advanced Electrical System (in English)

Curriculum for ERASMUS + students

Faculty: Electrical Engineering and Computer Science

Study period: 2 years (master)

Academic year structure: 2 semesters (14 weeks per semester)

Examination sessions (two): winter session (January/February)

summer session (June/July)

Courses per years (C= course; S = seminar; L = laboratory; P = project)

1st Year

No. crt.	Course	Code	language of instruction	1 st Semester					2 nd Semester					
				C	S	L	P	Cred	C	S	L	P	Cred	
01	Analysis and signal processing	SEA101	EN	2		2		5						
02	Environmental policy and electromagnetic compatibility	SEA102	EN	2		1		5						
03	Utility-scale energy storage systems	SEA103	EN	2		1	1	5						
04	Control of power electronic converters	SEA104	EN	2		1	1	5						
05	Ethics and academic integrity	SEA105	EN	1				2						
06	Research practice SEA-1	SEA106	EN				10	8						
07	Digital electrical systems	SEA207	EN						1		2			5
08	Electric propulsion systems	SEA208	EN						2		1	1		5
09	Integrated design of electrical installations	SEA209	EN						1		1	1		5
10	Smart electrical microgrids	SEA210	EN						2		2			5
11	Research practice SEA-2	SEA211	EN									12		10

2nd Year

No. crt.	Course	Code	language of instruction	3 rd Semester					4 th Semester				
				C	S	L	P	Cre d	C	S	L	P	Cre d
Optional disciplines													
Optional package 1 (2 disciplines will be selected)													
01	Hydro power energy conversion systems	SEA301	EN	2		1	1	5					
02	Photovoltaic power plants	SEA302	EN	2		1	1	5					
03	Embedded sensors for electrical engineering applications	SEA303	EN	2		1	1	5					
04	Testing to electromagnetic disturbances	SEA304	EN	2		1	1	5					
Optional package 2 (2 disciplines will be selected)													
05	Digital Monitoring Systems for Power Quality	SEA305	EN	2		1		5					
06	Human Machine Interface Design	SEA306		2		1		5					
07	Wind power plants	SEA307	EN	2		1		5					
08	Web applications in electrical engineering	SEA308	EN	2		1		5					
Compulsory disciplines													
09	Research practice SEA-3	SEA309	EN				12	10					
10	Research practice SEA-4	SEA410	EN								12	10	
11	Practice for dissertation thesis preparation	SEA411	EN								12	10	
12	Dissertation thesis elaboration	SEA412	EN								2	10	