Transilvania University of Braşov, Romania Study program: Automation and Applied Informatics Curriculum for ERASMUS + students

Faculty:	Electrical Engineering and Computer Science
Study period:	4 years (bachelor)
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)

1 st Year															
No.	Course	Language of				eme	ster		2 nd Semester						
crt.	Course	Code	instruction	С	S	L	Ρ	Cred	С	S	L	Ρ	Crec		
01	Mathematical Analysis	Al0101	Romanian	З	2			6							
02	Linear Algebra, Analytical and	Al0102	Romanian	З	2			6							
03	Computer Programming and Programming Languages I	AI0103	Romanian	3		3		6							
04	Discrete Mathematics	Al0104	Romanian	2	1			4							
05	Web Technologies	Al0105	Romanian	1		2		4							
06	Computer Programming and Programming Languages II	A10206	Romanian						2		2		5		
07	Special Mathematics	Al0207	Romanian						3	2			6		
08	Electrotechnics	Al0208	Romanian						3	2			6		
09	Data Processing	Al0209	Romanian						2		2		4		
10	Physics	Al0210	Romanian						З		1		4		
11	Computer-Aided Graphics	Al0211	Romanian						1		2		3		
12	Communication Skills	Al0112	Romanian	1	1			2							
13	English	LE01/LE02	Romanian	1	1			2	1	1			2		
14	Physical Training	EF01/EF02	Romanian		1			1		1			1		

2 nd Year															
No.	Course	Language of			3 rd S	ieme	ester		4 th Semester						
crt.	Course	Code	instruction	С	S	L	Ρ	Cred	С	S	L	Ρ	Crea		
01	Systems Theory I	Al0301	Romanian	2	1	1		5							
02	Robotics	AI0302	Romanian	2		2		5							
03	Linear Electronic Circuits	AI0303	Romanian	3		1	1	5							
04	Numerical Methods	Al0304	Romanian	2		2		5							
05	Algorithms	AI0305	Romanian	2		1	1	4							
06	Measurements and Transducers	AI0306	Romanian	2		2		4							
07	Systems Theory II	AI0407	Romanian						2	1	1		4		
08	Discrete Systems	AI0408	Romanian						2	1	1		5		
09	Digital Circuits I	AI0409	Romanian						2	1	1	1	5		
10	Computer Programming and	AI0/.10	Domanian						2		2		/.		
	Programming Languages III	A104 TU	Romanian						Z		2		4		

11	Digital Electronics	Al0411	Romanian					2		1		3
12	Signal Processing	Al0412	Romanian					2		1		3
13	English	LE03/LE04	Romanian	1	1		2	1	1			2
14	Physical Training	EF03/EF04	Romanian		1		1		1			1
15			Domonion						3 we	eks /	/	1.
15	Domain Practice Activity	AIU415	Rumanian						90 h	ours		4

3rdYear

No.	Course	Codo	Language of	of 5 th Semester						6 th Semester								
crt.	Course	Code	instruction	С	S	L	Ρ	Cred	С	S	L	Р	Crec					
01	Digital Circuits II	Al0501	Romanian	2	1	1	1	6										
02	Computers Architecture	Al0502	Romanian	3		2		6										
03	System Identification	AI0503	Romanian	2	1	1		5										
04	Control Engineering	Al0504	Romanian	3	1	2		5										
05	Control Engineering - Project	AI0605	Romanian									2	2					
06	Electrical Machines and Drives	AI0606	Romanian						2		2		4					
07	Microprocessor Systems	AI0607	Romanian						2		2		4					
08	Databases	AI0608	Romanian						2		2		4					
09	Programmable Logic Controllers	AI0609	Romanian						2		2		4					
10	Computer Networks	Al0610	Romanian						2		2		4					
11	Operating Systems	Al0511	Romanian	2		2		4										
12	Artificial Intelligence Techniques	Al0512	Romanian	2		2		4										
13	Programmable Logic Circuits	Al0613	Romanian						2		1	1	4					
14	Specialized Practice Activity	AI0614	Romanian							4								

4thYear

No.	Course	Codo	Language of		7 th S	Seme	este	r	8 th Semester						
crt.	Course	Code	instruction	С	S	L	Ρ	Cred	С	S	L	Ρ	Crec		
01	Microprocessor Systems - Project	Al0701	Romanian				2	2							
02	Robust and Adaptive Systems	AI0702	Romanian	2		2		5							
03	Optimization	AI0703	Romanian	2		1		4							
04	Machine Vision Systems	AI0704	Romanian	2		2		4							
05	Fuzzy Control Systems	AI0705	Romanian	2		1	1	4							
06	Discrete-Events Dynamic Systems	AI0506	Romanian	2		2		5							
07	Software Engineering	AI0807	Romanian						2		1	1	4		
08	Control Systems for Technological Processes	A10808	Romanian						2		1		3		
09	Parallel and Distributed Processing	A10809	Romanian						2		2		4		
10	Industrial Communication Networks	Al0810	Romanian						2		2		4		
11	Electrical Drives Control	AI0711	Domanian	2		1		2							
	Electrical Servo Systems	AIU7TT	RUMAIIIAN	2		I		5							
12	Data Security	Al0712	Romanian	2		1		3							
13	Reliability and Diagnosis	Al0813	Romanian						2		1		3		
14	Electrohydraulic Servo Systems	Al0814	Romanian						2		2		4		
15	Elaboration of the Diploma Project	Al0815	Romanian						56 hours			4			
16	Practice Activity for Bachelor Degree Project	AI0816	Romanian							/	4				