Transilvania University of Braşov, Romania

Study program: Electrical Engineering and Computers (in English)

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)

1st Year

No.	Course		1 st	Sem		2 nd Semester					
crt.	Course	С	S	L	Р	Cred	С	S	L	Р	Cred
01	Math.Analisys	3	2			6					
02	Linear Algebra and Analytic Geometry	2	2			5					
03	Applied computer science	2	1			3					
04	Professional communication	2	1			3					
05	Physics	2	1	2		6					
06	Computer Programming and Programming Languages I	2		2		5					
07	German language I	1	1			2					
08	Physical Training I		1			1					
09	Web programming						2		2	1	6
10	Computer assisted graphics						2		2		4
11	Special Mathematics						3	3			7
12	Computer Programming and Programming Languages II						2		3		6
13	Computer Programming and Programming Languages III						2		2		5
14	German language II						1	1			2
15	Physical Training I							1			1

2nd Year

No.	Course	3 rd Semester 4 th Seme								ester		
crt.		С	S	L	Р	Cred	C	S	L	Р	Cred	
01	Math. Fundamentals of Computers	2	2			5						
02	Computer Programming and Programming Languages III	2		3		6						
03	Electric and electronic Measurements	2		2		4						
04	System Theory	3	2			6						
05	Electromagnetic Field Theory	3	3	1		7						
06	Modern laguages (French) III	1	1			2						
07	Physical Training III		1			1						
08	Energy sources						2	1	2		4	

09	Analog electronics			3	2	1		5
10	Computer Programming and Programming Languages IV			1		2	1	4
11	Electrical Circuits Theory			3	3			7
12	Electrotechnical Materials			2		2		4
13	Modern laguages (French) IV			1	1			2
14	Physical Training IV				1			1
15	Practice in the field							4

3rd Year

No.	Causes		5 ^t	^h Sem	ester		6 th Semester						
crt.	Course	С	S	L	Р	Cred	С	S	L	Р	Cred		
01	Switchgear equipments	3		3		6							
02	Static converters	2		2		5							
03	Electrical machines I	2		2	1	5							
04	Analog Integrated Circuits	2	1	1		5							
05	Data Bases	1		2		3							
06	Digital Signal Processing						2		2		4		
07	Data Acquisition						2		2	1	4		
08	Microcontrollers						2		2		4		
09	Electrical machines II						2		2		4		
10	Digital Electronics						2		2		4		
11	Specialized practice										4		
	A3 Optional courses												
	(2 courses ou	it of 4	are ch	nosen)								
12	Industrial automation	2 1 3	3										
13	Virtual instrumentation I	+											
13	Microsensors and actuators	2		+ 1		+ 3							
	Computer Interfaces and Peripherals			'		٠							
	B3 Opt i	onal c	ourse	25									
	(2 courses or	ut of 4	are cl	nosen)		1		1	1			
	Computer architecture												
	Virtual instrumentation II						2		1		3		
14	Electrical equipment monitoring and								+				
15	diagnosis						2		1		+ 3		
	Electrical and electronic equipment for								'		ا ر		
	automotive I												

4thYear

No.	Course	7 th Semester						8 th Semester					
crt.	Course	С	S	L	Р	Cred	С	S	L	Р	Cred		
01	Electrical Drives	2	1	2		5							
02	Computer Interfaces and Peripherals	2		2		4							
03	Electrical Installations	2		1	1	4							
04	Electromagnetic compatibility	2		3		5							
05	Computer Networks	2			2	4							
06	Management						2			2	5		

07	Industrial Control						3		3		6			
80	Data Transmission & Protocols						2		2		5			
9	Practical for diploma project elaboration										4			
10	Diploma project elaboration										6			
A4 Optional courses														
(2 courses out of 4 are chosen)														
11	Power Electronic Circuit Simulation			1	1									
	CAD for electrical engineering I	- - 1	1	2		4								
12	Operating systems				2	+ 1	+							
	Java Programming			2	'	4								
	B4 Optional courses													
	(2 courses	out of	4 are	choser	n)									
	Computer network administration													
12	Software Engineering						2		2		2			
13 14	CAD for electrical engineering II						+		+		+			
	Electrical and electronic equipment for						2		2		2			
	automotive II													