

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. crt.	Course	Code	Semester I					Semester II				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Math.Analisys	EEC101	3	2			6					
02	Linear Algebra and Analytic Geometry	EEC102	2	2			5					
03	Applied computer science	EEC103	2	1			3					
04	History of technology and professional communication	EEC104	2	1			3					
05	Physics	EEC105	2	1	2		6					
06	Computer Programming and Programming Languages I	EEC106	2		2		5					
07	Modern laguages I	LBS1	1	1			2					
08	Physical Training I	EDF1		1			1					
09	Internet	EEC209						1		2	1	5
10	Computer assisted graphic	EEC210						2		2		4
11	Math. Fundamentals of Computers	EEC211						2	2			6
12	Computer Programming and Programming Languages II	EEC212						2		3	1	7
13	Energy Sources	EEC213						2	1	2		6
14	Modern laguages II	LBS2						1	1			2
15	Physical Training I	EDF2							1			1

2nd Year

No. crt.	Course	Code	Semester III					Semester IV				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Special Mathematics	EEC301	2	2			5					
02	Computer Programming and Programming Languages III	EEC302	2		2	1	6					
03	Materials in Electrical Engineering	EEC303	2		2		5					
04	System Theory	EEC304	3	2			5					
05	Electromagnetic Field Theory	EEC305	3	3			7					
06	Modern laguages III	LBS3	1	1			2					
07	Physical Training III	EDF3		1			1					

08	Numerical Methods	EEC408						2		2		4
09	Electronic Devices & Circuits	EEC409						3	2	1		5
10	Computer Programming and Programming Languages IV	EEC410						1		2	1	5
11	Electrical Circuits Theory	EEC411						3	3			5
12	Electrical Measurements	EEC412						2		2		5
13	Modern languages IV	LBS4						1	1			2
14	Physical Training IV	EDF4							1			1
15	Domain Practical Placement	EEC415										4

3rd Year

No. crt.	Course	Code	Semester V					Semester VI				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Electrical Equipment	EEC501	3		3		6					
02	Static converters	EEC502	2		2		5					
03	Electromagnetic Converters	EEC503	2		2	1	5					
04	Analog Integrated Circuits	EEC504	2		2		5					
05	Data Bases	EEC505	1		2		3					
06	Digital Signal Processing	EEC606						2		2		4
07	Data Acquisition	EEC607						2		1	1	4
08	Microprocessors & microcontrollers	EEC608						2		2		4
09	Power Plants and Transport of Electrical Energy	EEC609						2		2		4
10	Digital Integrated Circuits	EEC610						2		2		4
11	Practical Placement II	EEC611										4
A3 (there are choosed 2courses of 3)												
12	Industrial automation	EEC512	2+2		1+1		3+3					
13	Virtual instrumentation I	EEC513										
14	Microsenzors and actuators	EEC514										
B3 (there are choosed 2courses of 3)												
15	Computer architecture	EEC615						2+2		1+1		3+3
16	Virtual instrumentation II	EEC616										
17	Electrical car equipment monitoring and diagnosis	EEC617										

4th Year

No. crt.	Course	Code	Semester VII					Semester VIII				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Electrical Drives	EEC701	2		2		4					
02	Computer Interfaces and Peripherals	EEC702	2		2		4					
03	Electrical Installations	EEC703	2		1	1	5					
04	Electromagnetic compatibility	EEC704	2		3		4					
05	Computer Networks	EEC705	2		2		3					
06	Management	EEC806						2			2	3
07	Industrial Control	EEC807						3		3		5
08	Data Transmission & Protocols	EEC808						2		2		4

09	Analysis of nonlinear systems in electrical engineering	EEC809						2	1	1		4
10	Practical Placement III	EEC810										10
A4 (there are choosed 2courses of 3)												
12	Power Electronic Circuit Simulation	EEC711	2+2		2+2	1+1	5 +	5				
13	CAD for electrical engineering I	EEC712										
14	Operating systems	EEC713										
B4 (there are choosed 2courses of 3)												
15	Computer network administration	EEC814						2+2		2+2		2
16	Software Engineering	EEC815										
17	CAD for electrical engineering II	EEC816										