

Transilvania University of Braşov, Romania

Study program: Electrical Engineering and Computers – in english

Faculty: Electrical Engineering and Computer Science

Study program (Curriculum)

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

Year I

Nr. Crt	Course	Code	Semester I					Semester II					
			C	S	L	P	Cred	C	S	L	P	Cred	
01	Math. Analisis	MAT1	3	2			5						
02	Linear Algebra, Diff. Geometry	MAT2	2	2			5						
03	Discrete mathematics	EEC103	1	1			4						
04	Technical drawing and info graphics	EEC104	2		2		4						
05	Physics	FIZ1	2		2		4						
06	Programming	EEC106	2		2		5						
07	Technical English	LBS1	1	1			2						
08	Physical Training	EDF1		1			1						
09	Internet Technics	EEC209						2		1	1		5
10	History of Technology	EEC210						2	1				3
11	Math. Fundamentals of Comp.	EEC211						3	2				6
12	Programming	EEC212						2		3	1		6
13	Energy Sources	EEC213						2	1	1	1		7
14	Technical English	LBS2							2				2
15	Physical Training	EDF2							1				1

Year II

Nr. 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	Programming	EEC302	2		2	1	6						
03	Materials in Electr. Engineering	EEC303	2		2		6						
04	System Theory	EEC304	3	2			5						
05	Electromagnetics	EEC305	3	3			6						
06	Technical English	LBS3	1	1			2						
07	Numerical Methods	EEC407						2		2			4
08	Electronic Devices & Circuits	EEC408						3	2	1			5
09	Programming	EEC409						2		1	1		5
10	Electrical Circuits Theory	EEC410						3	3				5
11	Electrical Equipment	EEC411						3		2			5
12	Technical English	LBS4							2				2
13	Practical Placement	EEC413							4 wks x 30 hrs				4

Year III

Nr. Crt	Course	Code	Semester V					Semester VI				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Electrical Measurements	EEC501	2		2		4					
02	Static converters	EEC502	2		2		5					
03	Electromechanic Converters	EEC503	2		2	1	6					
04	Analog Integrated Circuits	EEC504	2		2		5					
05	Data Bases	EEC505	1		2		4					
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 El Energy	EEC609						2		2		4
10	Digital Integrated Circuits	EEC610						2		2		4
11	Practical Placement	EEC611							4 wks x 30 hrs			4
Optional courses												
12	Computer-human interaction	EEC512	2		1		3					
13	Waveguides, Antennae and Wireless Comm	EEC513	2		1		3					
14	Programming	EEC514	2		1		3					
15	Technology of Electrical Equipments	EEC515	2		1		3					
16	Computer architecture	EEC616						2		1		3
17	Programming	EEC617						2		1		3
18	Communication Theory	EEC618						2		1		3

Year IV

Nr. Crt	Course	Code	Semester VII					Semester VIII				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Electrical Drives	EEC701	2		2		5					
02	Computer Interfaces and Peripherals	EEC702	1		1		2					
03	Electrical Installations	EEC703	2		1	1	5					
04	Control Engineering & Optim. methods	EEC704	2		1		4					
05	Economics for engineers & Project manag.	EEC705	2			1	4					
06	Computer Networks	EEC806						2		2		4
07	Industrial Process Control	EEC807						2		2		4
08	Data Transmission & Protocols	EEC808						2		2		4
09	Electromagnetic compatibility	EEC809						2		2		4
10	Practical Placement and Diploma project	EEC810							10 wks x 6 hrs			2
11	Advanced electrical systems - project	EEC811							4sapt x 30 hrs			8
Optional courses												
12	Electronic Circuit Simulation	EEC712	2		1		5					
13	CAD for electrical engineering	EEC713	2		1		5					
14	Operating systems	EEC714	2		1		5					
15	Computer network administration	EEC815						2		2		2
16	Software Engineering	EEC816						2		2		2
17	CAD for electrical engineering	EEC817						2		2		2