Transilvania University of Braşov, Romania

Study program: Technologies and Telecommunications Systems

Faculty	Faculty of 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)

1st Year

No. crt.	Course	Code	1st Semester					2nd Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Communication Skills	ETTI101	1	2	-	-	3					
02	Applied Informatics I	ETTI102	1	-	2	-	4					
03	Mathematical Analysis	ETTI103	3	2	-	-	6					
04	Linear Algebra, Analytical and Differential Geometry	ETTI104	3	2	-	-	7					
05	Computers Programming and Programming Languages	ETTI105	2	-	2	1	5					
06	Computer Assisted Graphics	ETTI106	-	-	2	-	3					
07	English Language. I	LE01	1	1	-	-	2					
	French Language I	LF01										
	German Language I	LG01										
	Spanish Language I	LS01										
08	Physical Training I	EF01	-	1	-	-	1					
09	Special Mathematics	ETTI207						2	1	-	-	4
10	The Equations of Mathematical Physics	ETTI208						3	2	-	-	6
11	Basics of Electrotechnics	ETTI209						2	1	-	-	4
12	Theory of Probabilities and Mathematical Statistics	ETTI210						2	1	-	-	4
13	Physics	ETTI211						3	1	1	-	6
14	Object Oriented Programming	ETTI212						2	-	2	-	4
15	English Language. II	LE02						1	1	-	-	2
	French Language II	LF02										
	German Language II	LG02										
	Spanish Language II	LS02										
16	Physical Training II	EF02						-	1	-	-	1

2nd Year

No. crt.	Course	Code	3rd Semester					4th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Measurements in electronics and telecommunications	ETTI301	2	-	1	-	4					
02	Signals and Systems I	ETTI302	3	2	1	-	6					

03	Electronic Devices	ETTI303	3	2	1	-	6					
04	JAVA Programming	ETTI304	2	-	2	-	5					
05	Applied Informatics II	ETTI305	2	-	-	1	4					
06	English Language III	LE03	1	1	-	-	2					
	French Language III	LF03										
	German Language III	LG03										
	Spanish Language III	LS03										
07	CAD Techniques in the Design of Electronic Modules	ETTI306	1	-	2	-	3					
08	Spice Models	ETTI307										
09	Physical Training III	EF03	-	1	-	-	1					
10	Fundamental Electronic Circuits	ETTI408						2	2	1	-	5
11	Signals and Systems II	ETTI409						3	2	1	-	6
12	Analog Integrated Circuits	ETTI410						3	2	2	-	6
13	Digital Integrated Circuits	ETTI411						3	2	2	-	7
14	English Language IV	LE04						1	1	-	-	2
	French Language IV	LF04										
	German Language IV	LG04										
	Spanish Language IV	LS04										
15	Physical Training IV	EF04						-	1	-	-	1
16	Practical Placement	ETTI412						90 hours				4

3rd Year

No. crt.	Course	Code	5th Semester					6th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Telecommunications Software	TST501	2		2		4					
02	Microcontrollers	TST502	2		2	1	5					
03	Network Architectures and Internet	TST503	2	1	2		5					
04	Antennas, Lines and Propagation	TST504	3		2		5					
05	Circuit-, Packet- and Service- Switching	TST505	2		2		5					
06	Design of Electronic Circuits	TST506				2	3					
07	Electromagnetic Compatibility	TST507	2		1		3					
08	Bases of Data Acquisition Systems	TST508										
09	Transmission of Information Theory	TST609						2	1	2		5
10	Operating Systems	TST610						2		2		4
11	Digital Signal Processing	TST611						2	1	2		4
12	Modulation and Demodulation of Signals	TST612						2		2		5
13	Telephony and Streaming Systems	TST613						2		2	1	4
14	Measurement in RF and microwaves	TST614										
15	Databases	TST615						2		2	1	4
16	Data structures and Algorithms	TST616										
17	Practical Placement	TST617						3 weeks x 30 hours				4

4th Year

No. crt.	Course	Code	7 th Semester					8th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Interfacing and Signaling	TST701	3		2		5					
02	Television	TST702	2		2		5					
03	Telecommunications Software Project	TST703				3	4					
04	Computer Networks	TST704	2		2	1	6					
05	Programming in the Internet	TST705	2		2	1	5					
06	Studio Equipment and Multimedia	TST706										
07	Integrated structures for specific applications	TST707	2		2	1	5					
08	Operating Systems for Mobile Platforms	TST708										
09	Optical Communications	TST809						2		1		3
10	Mobile Communications	TST810						3		2		5
11	Software Engineering Applied in Data Communications	TST811						2			1	3
12	Integration of Telecommunication and Computing Systems	TST812						2		1	1	4
13	Terrestrial and Space Radio-Communications	TST813						2		1		3
14	Radio-location and Radio-navigation	TST814										
15	General Economy	TST815						2	1			2
16	Accomplishment of the Diploma Project	TST816							2		4	4
17	Practical Activity for Preparation of the Diploma Project	TST817						120 hours				6