

Transilvania University of Braşov, Romania

Study program: Telecommunications Systems and Technologies

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	1 st Semester					2 nd 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					
08	Physical Training I	EF01	-	1	-	-	1					
09	Special Mathematics	ETTI209						2	1	-	-	4
10	The Equations of Mathematical Physics	ETTI210						3	2	-	-	6
11	Basics of Electrotechnics	ETTI211						2	1	-	-	4
12	Theory of Probabilities and Mathematical Statistics	ETTI212						2	1	-	-	4
13	Physics	ETTI213						3	1	1	-	6
14	Object Oriented Programming	ETTI214						2	-	2	-	4
15	English Language. II	LE02						1	1	-	-	2
16	Physical Training II	EF02						-	1	-	-	1

2nd Year

No. crt.	Course	Code	3 rd Semester					4 th 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	1	2	-	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	Spice Models	ETTI306										
07	CAD Techniques in the Design of Electronic Modules	ETTI307	1	-	2	-	3					
08	English Language III	LE03	1	1	-	-	2					

08	Physical Training III	EF03	-	1	-	-	1						
10	Fundamental Electronic Circuits	ETTI410						2	2	1	-	5	
11	Signals and Systems II	ETTI411						3	2	1	-	6	
12	Analog Integrated Circuits	ETTI412						3	2	2	-	6	
13	Digital Integrated Circuits	ETTI413						3	2	2	-	7	
14	English Language IV	LE04						1	1	-	-	2	
15	Physical Training IV	EF04						-	1	-	-	1	
16	Practical Placement	ETTI416						90 hours				4	

3rd Year

No. crt.	Course	Code	5 th Semester					6 th Semester					
			C	S	L	P	Cred	C	S	L	P	Cred	
01	Software for Telecommunications	TST501	2		2		4						
02	Microcontrollers	TST502	2		2	1	5						
03	Antennas, Lines and Propagation	TST503	3		2		5						
04	Modulation and Demodulation of Signals	TST504	2	1	2		5						
05	Circuit-, Packet- and Service- Switching	TST505	2		2		5						
06	Audio Engineering	TST506			2		3						
07	Virtual Instrumentation	TST507	2		1		3						
08	Sensor Networks	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	Network Architectures and Internet	TST612						2		2		5	
13	Telephony and Streaming Systems	TST613						2		2	1	4	
14	Measurement in RF and microwaves	TST614											
15	Artificial Intelligence	TST615						2		2	1	4	
16	Databases	TST616											
17	Practical Placement	TST617						3 weeks x 30 hours				4	

4th Year

No. crt.	Course	Code	7 th Semester					8 th Semester					
			C	S	L	P	Cred	C	S	L	P	Cred	
01	Terrestrial and Space Radio-Communications	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	Network Security	TST813						2		1		3	
14	The Basics of Cryptology	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	