

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	Ethics and Academic Integrity	ETTI101	1	2	-	-	4					
02	Applied Informatics I	ETTI102	1	-	2	-	5					
03	Mathematical Analysis	ETTI103	3	2	-	-	5					
04	Linear Algebra, Analytical and Differential Geometry	ETTI104	3	2	-	-	5					
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	1	1	-	5
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	-	5
14	Object Oriented Programming	ETTI214						2	-	2	-	5
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	2	1	2	-	5					
03	Digital Electronics I	ETTI303	2	1	-	-	4					
04	Electronic Devices	ETTI304	2	2	1	-	5					
05	JAVA Programming	ETTI305	2	-	2	-	5					
06	Spice Models	ETTI306	1	-	2	-	4					
07	CAD Techniques in the Design of Electronic Modules	ETTI307										
08	English Language III	LE03	1	1	2	-	2					
08	Physical Training III	EF03	-	1	-	-	1					

10	Fundamental Electronic Circuits	ETTI410						2	2	1	-	5
11	Signals and Systems II	ETTI411						2	2	1	-	5
12	Analog Integrated Circuits	ETTI412						2	2	1	-	5
13	Digital Electronics II	ETTI413						2	1	2	-	5
14	Virtual Instrumentation	ETTI414						2	-	1	-	3
15	English Language IV	LE04						1	1	-	-	2
16	Physical Training IV	EF04						-	1	-	-	1
17	Practical Placement	ETTI415						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	Scripting Languages	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	-	5
12	Network Architectures and Internet	TST612						2	-	2	-	4
13	Telephony and Media Streaming Systems	TST613						2	-	2	-	4
14	Measurement in RF and microwaves	TST614										
15	Artificial Intelligence	TST615						2	-	2	-	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	5					
04	Computer Networks	TST704	2	-	2	-	5					
05	Internet Applications Programming	TST705	2	-	2	-	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	-	2	-	4
10	Mobile Communications	TST810						3	-	2	-	5
11	Software Engineering Applied in Data Communications	TST811						2	-	-	2	5
12	Integration of Telecommunication and Computing Systems	TST812						2	-	2	-	5
13	Network Security	TST813						2	-	1	-	3
14	The Basics of Cryptology	TST814										

15	General Economy	TST815						2	1	-	-	2
17	Preparation for the Diploma Thesis	TST816						120 hours				6