Transilvania University of Braşov, Romania

Study program: Electronic and Communication Integrated Systems

Faculty: Electrical Engineering and Computer Science

Study period: 2 years (master)

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)

1 Year

No.	Course	Code		1 st	Seme		2 nd Semester					
crt.	Course		С	S	L	Р	Cred	С	S	L	Р	Cred
01	Software technologies for systems testing	SECI101	1	-	-	2	6					
02	Distributed and real-time systems	SECI102	2	-	-	2	6					
03	Packet processors	SECI103	2	-	-	-	6					
04	Data communications	SECI104	1	-	2	1	6					
05	Ethics and academic integrity	SECI105	1	-	-	-	4					
06	Research (practice)	SECI106	ı	-	-	-	2					
Thoroughgoing Study Direction: Digital communication networks												
07	Digital signal processors	SECI207						2	-	-	1	6
80	Industrial control and data transmission networks	SECI208						1	-	ı	2	6
09	Quality of Services and computer networks security	SECI209						1	-	-	2	6
10	Research (practice)	SECI210						_	_	_	_	2
One discipline is chosen from each package												
Optional package no. 1												
11	Communication networks modelling	SECI211										
	Protocols for interconnecting hybrid networks	SECI212						1	-	-	1	4
Optional package no. 2												
12	Physical layer of communication networks and switching techniques	SECI213						2	-	-	1	6
	Smart antennas for mobile communications systems	SECI214										
Thor	oughgoing Study Direction: Embedded systems											
13	Research (practice)	SECI215						ı	1	1	-	2
	One discipline is cho	sen from e	each _l	packa	age							
Optio	nal package no. 1											
14	Modern architectures of processors and microcontrollers	SECI216						1			2	6
14	Hardware Description Languages	SECI217						'	_	_	_	0
Ontic	nal package no. 2	JECIZ I /							<u> </u>		<u> </u>	
15	Analog interfacing and conditioning systems	SECI218										
	Network on Chip	SECI219						1	-	-	2	6
Optional package no. 3												
operation participation of												

16	Industrial control and data transmission networks	SECI220	·					1			1	5
	VLSI testing technologies and reliability	SECI221							_	_	I	כ
Optional package no. 4												
17	Interfacing standards for embedded systems	SECI222						2	-	_		
	Systems on chip security	SECI223									1	5
	Programmable logic systems	SECI224										
Optional package no. 5												
18	Microcontroller and DSP programming	SECI225						2	1	-	1	
	Neural networks	SECI226										6

2nd Year

No.	edi .			3 rd S	Seme	ster		4 th Semester					
crt.	Course	Code	С	S	L	Р	Cred	С	S	L	Р	Cred	
Thoroughgoing Study Direction: Digital communication networks													
1	Intelligent communication networks	SECI301	1	-	-	2	5						
2	Mobile communications and mobile computing	SECI302	2	-	1	1	7						
3	Research (practice)	SECI303	-	-	-	-	6						
One discipline is chosen from each package													
Optional package no. 1													
4	Distributed databases for telecommunications	SECI304	1		1	_	_						
4	Radio channel modelling	SECI305		_		1	6						
Optional package no. 2													
	Design and testing of digital communication	SECI306			1								
5	networks	SECISOO	2	-		1	6						
	Multimedia streams in IP networks	SECI307											
Thor	Thoroughgoing Study Direction: Embedded systems												
6	Research (practice)	SECI308	-	-	-	-	6						
One discipline is chosen from each package													
Optional package no. 1													
7	Systems remote control	SECI309	1	- 1	1	1	6						
/	Virtual instrumentation in embedded systems	SECI310			<u> </u>								
Optio	onal package no. 2												
	Industrial and consumer microcontroller-based	SECI311	1			2	6						
8	applications	JECIJ I I		-	-								
	ASIC design	SECI312											
Optic	onal package no. 3	1		1	1	1	1						
	Low-power intelligent sensor networks	SECI313	2	-			6						
9	Energy management of embedded electronics and	SECI314			1	1							
	communications systems	520.511			<u> </u>								
Optio	nal package no. 4	1		ı	ı	1	1			1			
	Applications in telecommunications, domotics and	SECI315	2										
10	medical electronics			_	_	2	6						
	Automotive control systems	SECI316											
	Computer-aided design in electronics EDA	SECI317											
-	rections	T		ı	I	1	1						
11	Research Projects Management	SECI401	1	-	-	1	4						
12	Research (practice)	SECI402	-	-	-	-	10						
13	Practice for master thesis preparing	SECI403	-	-	-	-	10						
14	Preparing the master thesis	SECI404	-	-	-	-	6						