

North University of Baia Mare

Faculty of Engineering

Field: Applied Sciences

Licence: Electronic Engineering and Telecommunications

Major: Applied Electronics

CURRICULUM

Crt. No.	Subject name	First year										Exam. form	
		First semester					Second semester						
		14 weeks					14 weeks						
		C	S	L	P	CR	C	S	L	P	CR		
I.	Fundamental Subjects												
1	Mathematical analysis	2	1			4	2	1			4	E1,E2	
2	Linear Algebra, Analytic and Differential Geometry	2	1			4						E1	
3	Computer assisted graphics						2		1		3	C2	
4	Programming and Computer Languages	2	1	2		5	2		2		4	E1,E2	
5	Physics	2		1		4						E1	
6	Chemistry	2		1		3						C1	
												TOTAL I	
II.	Major-specific subjects												
7	Electronic Devices						2		2		5	E2	
8	Digital Integrated Circuits						2	1	2		6	E2	
9	Electronic Materials and Passive Components	2		2		4						E2	
10	Electrotechnics Fundamentals						2	2			4	E2	
												TOTAL II	
IV.	Complementary subjects												
11	Foreign Languages 1		2			2		2			2	C1,C2	
12	Communication Skills	1	1			2							
13	Physical Education and Sport		1			2		1			2	A/R 2	
												TOTAL IV	
		13	7	6	0	30	12	7	7	0	30		
	TOTAL HOURS/week.		26					26					
	TOTAL EXAMS		4					5					
	TOTAL COLLOQUIUMS		2					3					

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Crt. No.	Subject name	Second year										Exam. form	
		3rd semester					4th semester						
		14 weeks					14 weeks						
		C	S	L	P	CR	C	S	L	P	CR		E,C,P
I.	Fundamental subjects												
1	Special mathematics	2	1			3							E3
2	Engineering numerical computing environments						2	1	2			5	E4
													TOTAL I
II.	Major-specific subjects												
3	Electrotechnics	2		1		3							E3
4	Basic Electronic Circuits	2		2	1	5							E3, P3
5	Digital Systems	2		2		5							E3
6	Analog Integrated Circuits						2		2			4	E4
7	Computer Aided Design	2		2		4							C3
8	CAD Techniques for Electronic Modules Design						2		1	1		4	E4, P4
9	Electronics Technology						2		1			4	C4
10	Microprocessors Architecture						2		2			4	E4
11	Object-Oriented Programming	2		2		4	2		2			4	E3, E4
12	Electronic Measurements	2		2		4							E3
13	Practical Training						3 weeks X 28 h/w.				3		C4
													TOTAL II
IV.	Complementary subjects												
14	Foreign Languages 1		2			2		2				2	C3, C4
													TOTAL IV
		14	3	11	1	30	12	3	10	1	30		
	TOTAL HOURS/week.	29					26						
	TOTAL EXAMS	4					3						
	TOTAL COLLOQUIUMS	1					4						

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CURRICULUM

Crt. No.	Subject name	Third year										Exam. form	
		Fifth semester					Sixth semester						
		14 weeks					14 weeks						
		C	S	L	P	CR	C	S	L	P	CR		E,C,P
II.	In the field subjects												
1	Analogue Integrated Circuits II	2		2	1	5							E5, P5
2	Microcontrollers	2		2		4							E5
3	Signals	2	1	1		4							C5
4	Analysis and Synthesis of Electric Circuits						2	1	1			4	E6
5	Communication Protocols	2		2		5							E5
6	Automated systems	2		1		4							C5
7	Fundamentals of Data Acquisition Systems	2		2		4							E5
8	Virtual Instrumentation						2		2	1		5	E6,P6
													TOTAL II
III.	Major-specific subjects												
9	Programmable logic circuits I						2		2			4	E6
10	Power Electronics	2		2		4							E5
11	Industrial Electronics/ Industrial Automations						2		2			4	E6
12	Programmable automatons						2		2			4	C6
13	Computers Networks						2		2			4	E6
14	Electrical Machines and Drives						2		1			3	C6
15	Practical Training								3 weeks X 28 h/w.			2	C6
													TOTAL III
		14	1	12	1	30	14	1	12	1	30		
	TOTAL HOURS/week.			28					28				
	TOTAL EXAMS			4					5				
	TOTAL COLLOQUIUMS			2					4				

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CURRICULUM

Crt. No.	Subject name	Fourth year										Exam form
		Seventh semester					Eight semester					
		14 weeks					14 weeks					
		C	S	L	P	CR	C	S	L	P	CR	
II. In the field subjects												
1	Assembly Programming Languages						2		2		4	E8
2	Communication Systems	2		2		5						C7
3	Digital Signal Processing	2		2		4						E7
											TOTAL II	
III. Major-specific subjects												
4	Power Supplies	2		2		5						E7
5	Digital Image Processing/Peripheral Equipments						2		2		4	C8
6	Hardware Description Languages	2		2	1	6						E7,P7
7	Embedded Systems / System on a Chip	2		2		5						E7
8	Design with Microprocessors						2		2		4	C8
9	Television Systems						2		2		4	C8
10	Microelectronics/Optoelectronics						2		2		4	C8
11	Practice time dedicated to finalizing the graduation paper										10	
											TOTAL III	
IV. Complementary subjects												
12	General Economics	2				2						C7
13	Management and marketing	2	1			3						C7
											TOTAL IV	
		14	1	10	1	30	10	0	10	0	30	
TOTAL HOURS/week.		26					20					
TOTAL EXAMS		4					1					
TOTAL COLLOQUIUMS		4					4					

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