Transilvania University of Braşov, Romania

Study program: Mathematics and Computer Science

Faculty: Mathematics and Computer Science

Study period: 3 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)

1 Year

No.	Course	Code	1 Semester					2 nd Semester					
crt.		couc	C	S	L	Р	Cred	C	S	L	Р	Cred	
1.	Linear Algebra	ALG1	2	2			5						
2.	Real Analysis	AMR1	3	3			7						
3.	Synthetic Geometry	GES1	2	2			5						
4.	Algorithmic and Programming	IAP1	2	1	2		6						
5.	Data Structures	ISD2	2		1		5						
6.	English Language (1)	LE01	1	1			2						
0.	German Language (1)	LG01	'	'									
7.	Physical Education and Sport 1	EF01		1			1						
8.	Mathematical Analysis	AMA2						3	3			7	
9.	Analytical Geometry	GEA2						2	2			5	
10.	Computer Architecture and Operating Systems	IAS4						2		2		5	
11.	Algebraic Structures	ALG2						2	2			5	
12.	Object Oriented Programming	IP03						2		2		6	
13.	English Language (2)	LE02						1	1			2	
15.	German Language (2)	LG02											
14.	Physical Education and Sport 2	EF02							1			1	

2nd Year

No.	Fource	Code		3 rd	Sem	este	r	4 th Semester				
crt.	Course	Code	С	S	L	Р	Cred	C	S	┙	Р	Cred
1.	Differential equations	AG14	2	2			6					
2.	Differential geometry	GED3	2	2			6					
3.	Complex Functions	AMC3	2	2			6					
4.	Logic and set theory	ALG3	2	2			5					
5.	Java Programming	IPJ6	2		2		5					
6.	English Language (3)	LE03	1	1			2					
0.	German Language (3)	LG03		'								

7.	Physical Education and Sport 3	EF03		1		1					
8.	Partial differential equations	ECP2					2	2			6
9.	Measure theory	AMM5					2	2			6
10.	Numerical calculation	AMN4					2	1	1		6
11.	Data Bases	IBD5					2		2		5
12.	Financial Mathematics/Actuarial	MFIN/					2	٦			5
12.	Mathematics	MACT						2			5
13.	Physical Education and Sport 4	EF04						1			1
14.	English Language (4)	LE04					1	1			2
14.	German Language (4)	LG04	ı				'				2

3stYear

No.	C	C-4-	5 th Semester						6 th	er		
crt.	Course	Code	С	S	L	Р	Cred	С	S	L	Р	Cred
1.	Probabilities	AMP6	2	1	1		6					
2.	Functional Analysis	AMF7	2	2			5					
3.	Theoretical Mechanics	EMT3	2	2			6					
4.	Operational research/	IT07/	2	1	1		5					
	Mathematics software	IMM8										
5.	Abstract algebra/ Number theory	ALG4/ ALG5	2	2			5					
6.	Practical Placement	PRAC				4	3					
8.	Special chapters on differential equations/Calculus of variations/Differential manifolds	ESD4/ECV5/ GED4						2	2			6
9.	Complements of Mathematical Analysis/Lipschitzian analysis/Astronomy	AM10/AML9/ ASTR						2	2			6
10.	Mathematical statisics	AMS8						2	1	1		5
11.	Computer Systems/Web programming/ Mathematical models for Machine Learning	ISIN/IPRW/ MMML						2		2		5
12.	Academic writing/Writing and communication	SA/RC						1		1		2
13.	Practical Coordination for Bachelor Thesis	ELLC									4	6