

# Transilvania University of Braşov, Romania

## Study program: Fundamental Mathematical Structures

Faculty; Mathematics and Computer Science  
 Study period: 2 years (master)  
 Academic year structure: 2 semesters (14/12 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<sup>st</sup> Year

No. crt.	Course	Code	1 <sup>st</sup> Semester					2 <sup>nd</sup> Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
1.	Fix Point Theory	MM11	2	1			6					
2.	Riemanian Geometry	MM12	2	1			6					
3.	Geometric Function Theory	MM13	2	2			6					
4.	Fractals Theory	MM14	2	1			6					
5.	Theory of Relativity	MM15	2	1			6					
6.	Non-Riemannian Geometry	MM21						2	1			7
7.	Variational Methods	MM22						2	2			7
8.	Stochastic Processes and Applications	MM23						2	1			7
9.	Theory of Distributions and Applications	MM24						2	2			7
10.	Research methodology. Ethics and academic integrity	MM25						1				2

### 2<sup>nd</sup> Year

No. crt.	Course	Code	3 <sup>rd</sup> Semester					4 <sup>th</sup> Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
1.	Approximation Theory	MM31	2	2			8					
2.	Reliability of Systems	MM32	2	1	1		8					
3.	Convexity and Inequalities	MM33	2	2			8					
4.	Scientific Seminar	MM34		4			6					
5.	Optimal Control	MM41						2	1			7
6.	Special Chapters of Mathematics	MM42						2	1			7
7.	Specialized Practice	MM43									2	3
8.	Elaboration of the Master Thesis	MM44									4	7
9.	Operator Theory	MM45						2	1			6
10.	Lipschitz functions	MM46						2	1			6