

Transilvania University of Braşov, Romania

Study program: Modern Technologies in Software Systems Engineering  
2023-2025

Faculty of 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

<sup>st</sup>  
1 Year

No. crt.	Course	Code	Semester I					Semester II				
			C	S	L	P	Cred	C	S	L	P	Cred
1.	Architecture of Enterprise Software Systems. .NET Platform	ASSEN	2		2		8					
2.	Introduction to Data Science	IDS	2		2		7					
3.	Distributed Programming Techniques	TEHPD	2		2		8					
4.	Mobile Devices Programming. Android Perspective	PDMPA	2		2		7					
5.	Algorithms in Combinatorial Optimization	AOCOM						2	1	1		7
6.	Modern technologies for OSX, IOS	MTOI						2		2		7
7.	Ethics and academic integrity	ETHIC						1				2
8.	ORM technologies	TEORM						2		2		7
9.	Big Data and Machine Learning	BDAML						2		2		7

<sup>nd</sup>  
2 Year

No. crt.	Course	Code	Semester III					Semester IV				
			C	S	L	P	Cred	C	S	L	P	Cred
1.	Non-sequential functional programming	PROFU	2		2		7					
2.	Advanced elements of computational graphics	EAGCO	2		2		8					
3.	Management of computer networks	ARETC	2		2		7					
4.	Cloud computing	CLCOM	2		2		8					
5.	Practice	PRACT									4	10
6.	Practical Coordination for Disertation Thesis	PRDI									4	20