

Transilvania University of Braşov, Romania

Study program: 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)

1st Year

Course title	Code	No. of credits	Number of hours per week			
			course	seminar	laboratory	project
Mathematical Analysis	AP01	6	3	2		
Basic Algebra for computer science	AG13	5	2	2		
Basic algorithms	IT11	6	2	1	2	
Basic programming	IT12	6	2		2	
Mathematical and computational logic	IT13	5	2	1		
English Language (1)	MIE1	2	1	1		
French Language (1)						
Spanish Language (1)						
German Language (1)						
Linear algebra, analytic and differential geometry	AG03	5	2	2		
Architecture of computing systems	IT21	5	2	1	1	
Object oriented programming	IT22	6	2		2	
Data structures	IT23	6	2		2	
Operating systems	IA21	6	2		2	
English Language (2)	MIE2	2		2		
French Language (2)						
Spanish Language (2)						
German Language (2)						

2nd Year

Course title	Code	No. of credits	Number of hours per week			
			course	seminar	laboratory	project
Scientific and professional communication	AG14	5	2	1	1	
Graph algorithms	IT31	6	2	1	1	
Formal languages and compilers	IT32	6	2	1	1	
Programming tools and environments	IA31	6	2		2	
Databases	IT33	5	2		2	
English Language (3)	MIE3	2	1	1		
French Language (3)						
German Language (3)						
Spanish Language (3)						
Automaton, calculability, complexity	IT41	6	2	1	1	
Distributed databases	IT42	5	2		2	
Visual programming environments	IA43	6	2		2	

Computer networks	IA44	6	2		2	
English Language (4)	MIE4	2		2		
French Language (4)						
German Language (4)						
Spanish Language (4)						
Optional (1)	IA42	5	2		2	

3rd Year

Course title	Code	No. of credits	Number of hours per week			
			course	seminar	laboratory	project
Operations Research	IT51	5	2	1	1	
Distributed programming	IT52	5	2		2	
Software Engineering	IA51	5	2		2	
Web Technologies	IA57	5	2		2	
Practical Placements	IT53	5				4
Probabilities and Statistics	AP07	5	2	1	1	
Artificial Intelligence	IA56	5	2		2	
IT Project Management	IA62	5	2		2	
Practical Placements	IT61	5				4
Optional (2)	IA02	5	2		2	
Optional (3)	IA61	5	2		2	
Optional (4)	IA04	5	2		2	