



UNIVERSITATEA „VASILE ALECSANDRI” DIN  
BACĂU

Facultatea de Științe

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Domain: **COMPUTER SCIENCE**

Study programme: **APPLIED INFORMATICS IN SCIENCE AND TECHNOLOGY**

Academic year 2024/2025

### STRUCTURE OF THE 1<sup>ST</sup> YEAR OF STUDY

No.	DISCIPLINE	SEMESTER	NUMBER OF CREDITS	TYPE OF EVALUATION
1	Neural Networks. Applications	1	7	E
2	Geometric Algorithms. 3D Applications	1	7	E
3	.NET Advanced Programming	1	7	E
4	Combinatorial Optimization	1	7	E
5	Academic Ethics and Integrity	1	2	C
6	Psychology of adolescents, youth, and adults - elective	1	5	E
7	Stochastic Modelling and Applications	2	5	E
8	Special Topics in Software Engineering	2	6	E
9	Multiplatform Programming	2	6	E
10	Software Testing and Analysis/Cloud Computing/Special Web Engineering Topics – optional 1	2	3	C
11	Communication Systems and Protocols in Distributed Systems/ <b>Embedded Systems</b> / Intelligent Information Access - Optional 2	2	4	E
12	Project – Educational Applications	2	6	C
13	English/French Language for Computer Science – optional 3	2	3	C
14	Design and Management of Educational Programs - elective	2	5	E
15	Educational Communication/Counseling and Guidance/Educational Research Methodology/Integrated Education – optional 4	2	5	E

E - Exam

C - Colloquium

Dean,  
Assoc. Prof. Gloria Cerasela CRIȘAN, PHD

Head of Department,  
Lecturer Roxana ARDELEANU, PhD



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### STRUCTURE OF THE II<sup>ND</sup> YEAR OF STUDY

No.	DISCIPLINE	SEMESTER	NUMBER OF CREDITS	TYPE OF EVALUATION
1	Artificial Intelligence Applications	3	6	E
2	Cryptography and Information Security	3	5	E
3	Efficiency and Optimization Methods	3	6	E
4	Risk Management in the IT Industry	3	6	E
5	<b>Nuanced Logic Systems</b> /Multiagent Systems/Event-based Systems/Windows Server 2022 - optional 5	3	6	C
6	Immersive Technologies	3	1	C
7	Didactics of the Domain and Development in Specialization Didactics (high-school graduate) - elective	3	5	E
8	Sociology of education/School organization management/Educational policies/Intercultural education - elective	3	5	E
9	Specialized Practical Training	4	15	C
10	Elaboration of the master's degree dissertation	4	15	C
11	Teaching Practice (high-school, graduate) - elective	4	5	C

E - Exam

C - Colloquium

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