



UNIVERSITATEA „VASILE ALECSANDRI” DIN
BACĂU

Facultatea de Științe

Str. Calea Mărășești, nr. 157, Bacău, 600115
Tel. ++40-234-542411, tel./ fax ++40-234-571012
www.ub.ro; e-mail: stiinte@ub.ro



Domain: **COMPUTER SCIENCE**

Study programme: **COMPUTER SCIENCE Partial attendance**

Academic year 2024/2025

STRUCTURE OF THE 1ST YEAR OF STUDY

No.	DISCIPLINE	SEMESTER	NUMBER OF CREDITS	TYPE OF EVALUATION
1	Mathematical Analysis	1	6	E
2	Programming Environments and Tools	1	6	E
3	Fundamentals of Programming	1	6	E
4	Databases	1	5	E
5	Human-computer Interfaces	1	5	E
6	Foreign Language IA/IB - optional 1	1	2	C
7	Physical Education I	1	1	C
8	Psychology of Education - elective	1	5	E
9	Accounting Bases - elective	1	5	E
10	Cybermarketing - elective	1	4	E
11	Computer Systems Architecture	2	4	E
12	Algebraic Foundations of Computer Science	2	5	E
13	Computational Geometry	2	4	E
14	Object-oriented Programming	2	5	E
15	Data Structures	2	5	E
16	Fundamental Algorithms	2	5	E
17	Foreign Language IIA/IIB - optional 2	2	2	C
18	Physical Education II	2	1	C
19	Pedagogy I (Fundamentals of Pedagogy +Curriculum Theory and Methodology) - elective	2	5	E
20	Marketing - elective	2	5	E
21	Mathematical Analysis II - elective	2	5	E

E - Exam

C - Colloquium

Dean,

Assoc. Prof. Gloria Cerasela CRIȘAN, PHD

Head of Department,

Lecturer, Roxana ARDELEANU, PhD



UNIVERSITATEA „VASILE ALECSANDRI” DIN
BACĂU

Facultatea de Științe

Str. Calea Mărășești, nr. 157, Bacău, 600115
Tel. ++40-234-542411, tel./ fax ++40-234-571012
www.ub.ro; e-mail: stiinte@ub.ro



Domain: **COMPUTER SCIENCE**

Study programme: **COMPUTER SCIENCE Partial attendance**

Academic year 2024/2025

STRUCTURE OF THE IIND YEAR OF STUDY

No.	DISCIPLINE	SEMESTER	NUMBER OF CREDITS	TYPE OF EVALUATION
1	Advanced Programming Methods/Web Platforms and Content Management Systems – optional 1	3	5	E
2	Web Applications Development	3	5	E
3	Probability and Mathematical Statistics	3	6	E
4	Advanced Programming Techniques	3	6	E
5	Graph Algorithms	3	5	E
6	Foreign Language III A/III B - optional 2	3	2	C
7	Physical Education III	3	1	C
8	Professional Ethics and Intellectual Property/ Scientific and Professional Writing and Communication – optional 3	3	1	C
9	Pedagogy II (Training Theory and Methodology +Assesment Theory and Methodology) - elective	3	5	E
10	General Genetics - elective	3	4	E
11	Ethics and Academic Integrity - elective	3	3	C
12	Mathematical and Computational Logic	4	5	E
13	Numerical Computing	4	5	E
14	Data Management Systems	4	5	E
15	Computer Networks	4	4	E
16	Formal and Automatic Languages	4	5	E
17	Specialized Practical Training I	4	4	C
18	Foreign Language IV A/IV B - optional 4	4	2	C
19	Specialization Didactics	4	5	E
20	Introduction to Mass-media - elective	4	6	E
21	General Economics - elective	4	3	C

E - Exam

C - Colloquium

Dean,

Assoc. Prof. Gloria Cerasela CRIȘAN, PHD

Head of Department,

Lecturer, Roxana ARDELEANU, PhD



UNIVERSITATEA „VASILE ALECSANDRI” DIN
BACĂU

Facultatea de Științe

Str. Calea Mărășești, nr. 157, Bacău, 600115
Tel. ++40-234-542411, tel./ fax ++40-234-571012
www.ub.ro; e-mail: stiinte@ub.ro



Domain: **COMPUTER SCIENCE**

Study programme: **COMPUTER SCIENCE Partial attendance**

Academic year 2024/2025

STRUCTURE OF THE IIIRD YEAR OF STUDY

No.	DISCIPLINE	SEMESTER	NUMBER OF CREDITS	TYPE OF EVALUATION
1	Operating Systems	5	4	E
2	Artificial Intelligence	5	5	E
3	Software Engineering - optional 1	5	4	E
4	Computer Systems Security - optional 2	5	4	C
5	Functional Programming - optional 3	5	4	C
6	Windows Distributed Applications Programming - optional 4	5	4	C
7	Specialized Practical Training II	5	5	C
8	Computer-assisted Learning - elective	5	2	C
9	Teaching Practice - elective	5	3	C
10	Integrated Computer Systems - elective	5	6	C
11	Strategic Entrepreneurship - elective	5	4	E
12	Operational Research	6	5	E
13	Computer Graphs	6	3	E
14	Parallel, Concurrent, and Distributed Programming	6	4	E
15	Differential Equations/Optimization and Applications - optional 5	6	5	C
16	Mathematical Software	6	4	E
17	Mobile Applications Development - optional 6	6	5	C
18	Internet of Things (IoT)	6	1	C
19	Elaboration of the Bachelor Graduation Paper (2 weeks X 22 hours/week=44 hours)	6	3	C
20	Class Management (14 weeks) - elective	6	3	E
21	Teaching Practice (12 weeks) - elective	6	2	C

E - Exam

C - Colloquium

Dean,

Assoc. Prof. Gloria Cerasela CRIȘAN, PHD

Head of Department,

Lecturer, Roxana ARDELEANU, PhD