



UNIVERSITATEA „VASILE ALECSANDRI”
DIN BACĂU

Facultatea de Științe

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Domain: **INFORMATICS**

Programme of study: **INFORMATICS**

Academic year 2021/2022

STRUCTURE FIRST YEAR OF STUDY

No	ACADEMIC SUBJECT	SEM	CRED	ASSESSMENT
1	MATHEMATICAL ANALYSIS	1	6	EX
2	PROGRAMMING ENVIRONMENTS AND TOOLS	1	6	EX
3	PROGRAMMING FUNDAMENTALS	1	6	EX
4	DATABASES	1	5	EX
5	HUMAN-COMPUTER INTERFACES	1	5	EX
6	FOREIGN LANGUAGE IA / IB - optional 1	1	2	COL
7	PHYSICAL EDUCATION I	1	1	COL
8	PSYCHOLOGY OF EDUCATION - elective	1	5	EX
9	BASIC ACCOUNTING - elective	1	5	EX
10	CYBERMARKETING - elective	1	4	EX
11	COMPUTER SYSTEMS ARCHITECTURE	2	4	EX
12	ALGEBRAIC FUNDAMENTALS OF INFORMATICS	2	5	EX
13	COMPUTATIONAL GEOMETRY	2	4	EX
14	OBJECT-ORIENTED PROGRAMMING	2	5	EX
15	DATA STRUCTURES	2	5	EX
16	FUNDAMENTAL ALGORITHMS	2	5	EX
17	FOREIGN LANGUAGE IIA / IIB - optional 2	2	2	COL
18	PHYSICAL EDUCATION II	2	1	COL
19	PEDAGOGY I - elective	2	5	EX
19	MARKETING - elective	2	5	EX
20	MATHEMATICAL ANALYSIS II - elective	2	5	EX

EX- exam

EX*- written and oral exam

COL- colloquium assessment

Dean,
Assoc. Prof., PhD
Cerasela CRIȘAN

Programme Coordinator,
Senior Lecturer, PhD
Iulian FURDU

Head of Department,
Assoc. Prof., PhD
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STRUCTURE
SECOND YEAR OF STUDY

No	ACADEMIC SUBJECT	SEM	CRED	ASSESSMENT
1	ADVANCED PROGRAMMING METHODS / WEB PLATFORMS AND CONTENT MANAGEMENT SYSTEMS – optional 1	3	5	EX
2	WEB APPLICATIONS DEVELOPMENT	3	5	EX
3	PROBABILITY AND STATISTICS	3	6	EX
4	ADVANCED PROGRAMMING TECHNIQUES	3	6	EX
5	GRAPH ALGORITHMS	3	5	EX
6	FOREIGN LANGUAGE III A / III B - optional 2	3	2	COL
7	PHYSICAL EDUCATION III	2	1	COL
8	PROFESSIONAL ETHICS AND INTELLECTUAL PROPERTY / SCIENTIFIC AND PROFESSIONAL WRITING AND COMMUNICATION – optional 3	3	1	COL
9	PEDAGOGY II - elective	3	5	EX
10	GENERAL GENETICS - elective	3	4	EX
11	TECHNICAL COMMUNICATION - elective	3	3	EX
12	MATHEMATICAL AND COMPUTATIONAL LOGIC	4	5	EX
12	NUMERICAL CALCULUS	4	5	EX
13	DATABASE MANAGEMENT SYSTEMS	4	5	EX
14	COMPUTER NETWORKS	4	4	EX
15	FORMAL LANGUAGES AND COMPILERS	4	5	EX
16	INTERNSHIP IN INFORMATICS I	4	4	COL
17	FOREIGN LANGUAGE IV A / IV B - optional 4	4	2	COL
18	SPECIAL DIDACTICS - elective	4	5	EX
20	INTRODUCTION TO MASS-MEDIA - elective	4	6	EX
21	GENERAL ECONOMICS - elective	4	3	COL

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STRUCTURE
THIRD YEAR OF STUDY

NO	ACADEMIC SUBJECT	SEM	CRED	ASSESSMENT
1	OPERATING SYSTEMS	5	4	EX
2	ARTIFICIAL INTELLIGENCE	5	3	EX
3	SOFTWARE ENGINEERING / MACHINE LEARNING - optional 1	4	4	EX
4	AUTOMATA, COMPUTABILITY AND COMPLEXITY/ COMPUTER SYSTEMS SECURITY – optional 2	5	5	COL
5	FUNCTIONAL PROGRAMMING / SEMANTICS OF PROGRAMMING LANGUAGES – optional 3	5	5	COL
6	CRYPTOGRAPHY/ DISTRIBUTED WINDOWS APPLICATIONS PROGRAMMING – optional 4	5	4	COL
7	INTERNSHIP IN INFORMATICS II	5	5	COL
8	COMPUTER ASSISTED TRAINING - elective	5	2	COL
9	PEDAGOGICAL PRACTICE - PRE-UNIVERSITY TEACHING SPECIALIZATION – elective	5	3	COL
10	DESIGN WITH MICROPROCESSORS - elective	5	6	EX
11	STRATEGIC ENTREPRENEURSHIP - elective	5	4	EX
12	OPERATIONS RESEARCH	6	5	EX
13	COMPUTER GRAPHICS	6	3	EX
14	PARALLEL, CONCURRENT AND DISTRIBUTED PROGRAMMING	6	4	EX
15	DYNAMIC SYSTEMS / OPTIMIZATION AND APPLICATIONS – optional 5	6	5	COL
16	MATHEMATICAL SOFTWARE	6	4	EX
17	MOBILE APPLICATIONS DEVELOPMENT / SOFTWARE PROJECT MANAGEMENT – optional 6	6	5	COL
18	ENTREPRENEURSHIP	6	1	COL
19	ELABORATION OF BACHELOR THESIS PRACTICE	6	3	COL
20	CLASSROOM MANAGEMENT - elective	6	3	EX
21	PEDAGOGICAL PRACTICE - PRE-UNIVERSITY TEACHING SPECIALIZATION - elective	6	2	COL

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