



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: **MATHEMATICS**

Programme of study: **MATHEMATICS**

Academic year 2021/2022

STRUCTURE FIRST YEAR OF STUDY

No	ACADEMIC SUBJECT	SEM	CRED	ASSESSMENT
1	MATHEMATICAL ANALYSIS 1	1	6	EX
2	ALGEBRA 1 (LINEAR ALGEBRA)	1	6	EX
3	MATHEMATICAL LOGIC AND SET THEORY	1	6	EX
4	GEOMETRY 1 (ANALYTIC GEOMETRY)	1	5	EX
5	ALGORITHMS AND PROGRAMMING	1	5	EX
6	FOREIGN LANGUAGE 1A / 1B - optional 1	1	2	COL
7	PHYSICAL EDUCATION 1	1	1	COL
8	PSYCHOLOGY OF EDUCATION - elective	1	5	EX
9	MATHEMATICAL ANALYSIS 2	2	6	EX
10	ALGEBRA 2 (FUNDAMENTAL ALGEBRAIC STRUCTURES)	2	6	EX
11	DATA STRUCTURES	2	5	EX
12	NUMBER THEORY	2	6	EX
13	GEOMETRY 2 (SYNTHETIC GEOMETRY)	2	5	EX
14	FOREIGN LANGUAGE 2A / 2B - optional 2	2	2	COL
15	PHYSICAL EDUCATION 2	2	1	COL
16	COMPUTATIONAL GEOMETRY - elective	2	4	COL
17	PEDAGOGY I - elective	2	5	EX

EX- exam

EX*- written and oral exam

COL- colloquium assessment

Dean,
Assoc. Prof., PhD
Cerasela CRIȘAN

Programme Coordinator,
Assoc. Prof., PhD
Marcelina MOCANU

Head of Department,
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STRUCTURE SECOND YEAR OF STUDY

No	ACADEMIC SUBJECT	SEM	CRED	ASSESSMENT
1	COMPLEMENTS OF ALGEBRA	3	5	EX
2	MATHEMATICAL ANALYSIS 3	3	5	EX
3	COMPLEX ANALYSIS	3	5	EX
4	GRAPH ALGORITHMICS	3	4	EX
5	HISTORY OF MATHEMATICS / FUNCTIONAL PROGRAMMING - optional 1	3	5	EX
6	INTERNSHIP IN MATHEMATICS 1	3	3	COL
7	PROFESSIONAL ETHICS AND INTELLECTUAL PROPERTY / SCIENTIFIC AND PROFESSIONAL WRITING AND COMMUNICATION - optional 2	3	1	COL
8	FOREIGN LANGUAGE 3A / 3 B - optional 3	3	2	COL
9	PHYSICAL EDUCATION 3	3	1	COL
10	PEDAGOGY II - elective	3	5	EX
11	REAL ANALYSIS	4	5	EX
12	NUMERICAL ANALYSIS	4	4	EX
13	ASTRONOMY / FINANCIAL MATHEMATICS - optional 4	4	4	EX
14	PROBABILITY THEORY	4	4	EX
15	DIFFERENTIAL EQUATIONS	4	4	EX
16	DIFFERENTIAL GEOMETRY 1 (CURVES AND SURFACES)	4	3	EX
17	FOREIGN LANGUAGE 4A / 4B - optional 5	4	2	COL
18	INTERNSHIP IN MATHEMATICS 2	4	4	COL
19	SPECIAL DIDACTICS - elective	4	5	EX

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STRUCTURE THIRD YEAR OF STUDY

No	ACADEMIC SUBJECT	SEM	CRED	ASSESSMENT
1	FUNCTIONAL ANALYSIS	5	5	EX
2	PARTIAL DIFFERENTIAL EQUATIONS	5	5	EX
3	MATHEMATICAL STATISTICS	5	5	EX
4	DIFFERENTIAL GEOMETRY II (Differentiable varieties)	5	5	EX
5	SPECIAL TOPICS IN ELEMENTARY MATHEMATICS / SPECIAL TOPICS IN DIFFERENTIAL GEOMETRY / SPECIAL TOPICS IN ALGEBRA - optional 1	5	5	EX
6	SPECIAL TOPICS IN DIFFERENTIAL EQUATIONS / MATHEMATICAL MODELS DESCRIBED BY DIFFERENTIAL EQUATIONS / MATHEMATICS TOPICS FOR STUDENTS ABLE TO PERFORMANCE – optional 2	5	5	COL
7	COMPUTER-ASSISTED TRAINING - elective	5	2	COL
8	PEDAGOGICAL PRACTICE - PRE-UNIVERSITY TEACHING SPECIALIZATION - elective	5	3	COL
9	DYNAMICAL SYSTEMS - elective	5	4	COL
10	STRATEGIC ENTREPRENEURSHIP - elective	5	4	EX
11	THEORETICAL MECHANICS	6	5	EX
12	COMPLEMENTS OF SCHOOL MATHEMATICS	6	6	EX
13	OPERATIONAL RESEARCH	6	5	EX
14	MATHEMATICAL SOFTWARE	6	5	EX
15	OPTIMIZATION AND APPLICATIONS / GENERAL TOPOLOGY / FUNDAMENTS OF MATHEMATICS / OPERATOR THEORY - optional 3	6	5	EX
16	ENTREPRENEURSHIP	6	1	COL
17	ELABORATION OF BACHELOR THESIS PRACTICE	6	3	COL
18	CLASS MANAGEMENT - elective	6	3	EX
19	PEDAGOGICAL PRACTICE II - PRE-UNIVERSITY TEACHING SPECIALIZATION - elective	6	2	COL
20	COMPUTER GRAPHICS	6	5	COL

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