Course descriptions

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COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAG/2-prUMAx-206/21	Algebra (2)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 12s / 4s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 4.

Educational level: N

Prerequisites:

Course requirements:
Oral exam
Passing grade: 60%
Scale of assessment (preliminary/final): Weight of the course work / exam: 0/100

Learning outcomes:
Students will become familiar with the basic notions of abstract algebra and applications of elementary group theory.

Class syllabus:
1. Elementary number theory
2. Groups and their basic properties
3. Group homomorphisms
4. Rings and their homomorphisms

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
91,67	8,33

Lecturers: Mgr. Tomáš Rusin, PhD.

Last change: 20.06.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-101/21	Combinatorics

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 20s / 8s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 1.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 51

ABS	NEABS
100,0	0,0

Lecturers: PaedDr. Peter Vankúš, PhD.

Last change: 06.12.2022

Approved by:

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2-prUMAx-913/21	**Course title:** Didactics of Mathematics
Number of credits: 0	
Educational level: N	
State exam syllabus:	
Last change: 05.09.2023	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-212/21	Didactics of Mathematics (1)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 6s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 3.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
100,0	0,0

Lecturers: doc. PaedDr. Mária Slavíčková, PhD., Mgr. Michaela Vargová, PhD., Mgr. Magdaléna Janeček Kubešová, PhD.

Last change: 13.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2-prUMAx-213/21	**Course title:** Didactics of Mathematics (2)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 6s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 4.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
100,0	0,0

Lecturers: Mgr. Michaela Vargová, PhD., Mgr. Monika Porkertová, PhD.

Last change: 07.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-901/21	Diploma Thesis Project

Educational activities:
Type of activities: lecture
Number of hours:
per week: **per level/semester:** 4s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 5.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
100,0	0,0

Lecturers: RNDr. Monika Dillingerová, PhD.

Last change: 12.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-102/21	Geometry (1)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 20s / 8s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 1.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 47

ABS	NEABS
89,36	10,64

Lecturers: RNDr. Monika Dillingerová, PhD.

Last change: 14.09.2021

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAG/2-prUMAx-103/21	Geometry (2)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 20s / 8s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 2.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 26

ABS	NEABS
96,15	3,85

Lecturers: RNDr. Kristína Rostás, PhD.

Last change: 17.10.2023

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KAG/2-prUMAx-202/21	**Course title:** Geometry (3)
Educational activities: **Type of activities:** lecture / independent work **Number of hours:** **per week:** **per level/semester:** 16s / 6s **Form of the course:** on-site learning	
Number of credits: 0	
Recommended semester: 3.	
Educational level: N	
Prerequisites:	
Course requirements:	
Learning outcomes:	
Class syllabus:	
Recommended literature:	
Languages necessary to complete the course:	
Notes:	

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
100,0	0,0

Lecturers: RNDr. Kristína Rostás, PhD., RNDr. Barbora Pokorná, PhD.
Last change:
Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-112/21	Introduction to Didactics of Mathematics

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 6s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 2.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 27

ABS	NEABS
92,59	7,41

Lecturers: doc. PaedDr. Mária Slavíčková, PhD.

Last change: 07.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-106/21	Linear Algebra

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 20s / 8s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 2.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 26

ABS	NEABS
96,15	3,85

Lecturers: Mgr. Emília Miťková, PhD.

Last change: 14.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2-prUMAx-104/21	**Course title:** Mathematical Analysis (1)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 20s / 8s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 1.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 40

ABS	NEABS
85,0	15,0

Lecturers: doc. PaedDr. Mária Slavíčková, PhD., Mgr. Michaela Vargová, PhD.

Last change: 30.05.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-105/21	Mathematical Analysis (2)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 20s / 8s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 2.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 25

ABS	NEABS
100,0	0,0

Lecturers: Mgr. Michaela Vargová, PhD.

Last change: 15.02.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-204/21	Mathematical Analysis (3)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 6s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 3.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 25

ABS	NEABS
100,0	0,0

Lecturers: Mgr. Michaela Vargová, PhD.

Last change: 09.12.2022

Approved by:

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2-prUMAx-912/21	**Course title:** Mathematics
Number of credits: 0	
Educational level: N	
State exam syllabus:	
Last change: 12.09.2023	
Approved by:	

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2-prUMAx-311/21	**Course title:** Methods for Solving Mathematical Tasks

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 6s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 5.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
100,0	0,0

Lecturers: Mgr. Emília Miťková, PhD.

Last change: 14.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-301/21	Probability Measure and Mathematical Statistics

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 6s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 5.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
95,83	4,17

Lecturers: doc. Mgr. Lenka Filová, PhD.

Last change: 06.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-prUMAx-111/21	Revision of Advanced Secondary-school Mathematics (1)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 6s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 1.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 37

ABS	NEABS
97,3	2,7

Lecturers: doc. RNDr. Zbyněk Kubáček, CSc.

Last change:

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-211/21	Revision of Advanced Secondary-school Mathematics (2)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 12s / 4s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 4.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
100,0	0,0

Lecturers: PaedDr. Peter Vankúš, PhD.

Last change: 06.12.2022

Approved by:

COURSE DESCRIPTION

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<tr><td>Course ID:
FMFI.KMANM/2-prUMAx-214/21</td><td>Course title:
Seminar in History of Mathematics (1)</td></tr>
<tr><td colspan="2">Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: per level/semester: 16s / 6s
Form of the course: on-site learning</td></tr>
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<tr><td colspan="2">Recommended semester: 4.</td></tr>
<tr><td colspan="2">Educational level: N</td></tr>
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<tr><td>ABS</td><td>NEABS</td></tr>
<tr><td>100,0</td><td>0,0</td></tr>
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<tr><td colspan="2">Lecturers: doc. RNDr. Zbyněk Kubáček, CSc.</td></tr>
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COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KMANM/2-prUMAx-314/21	Seminar in History of Mathematics (2)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 12s / 4s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 5.

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
100,0	0,0

Lecturers: doc. RNDr. Zbyněk Kubáček, CSc.

Last change:

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KAG/2-prUMAx-205/21	Set and Number Theory (Algebra 1)

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 6s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 3.

Educational level: N

Prerequisites:

Course requirements:
Final assessment: written exam
Passing grade: 60%
Scale of assessment (preliminary/final): Weight of the course work / exam: 0/100

Learning outcomes:
Students will become familiar with the basic notions and methods of linear algebra.

Class syllabus:
1. Systems of linear equations 2. Euclidean vector space 3. Linear subspaces 4. Standard inner product 5. Linear maps and their matrix representations 6. Matrix algebra 7. Regular matrices and determinant

Recommended literature:
Linear Algebra / Jim Hefferon, http://joshua.smcvt.edu/linearalgebra, 2020

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
95,83	4,17

Lecturers: Mgr. Emília Miťková, PhD., Mgr. Tomáš Rusin, PhD.

Last change: 06.12.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2022/2023

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUMAx-221/21	Teaching Practice

Educational activities:
Type of activities: practice
Number of hours:
per week: **per level/semester:** 20s
Form of the course: on-site learning

Number of credits: 0

Recommended semester: 3., 4..

Educational level: N

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 24

ABS	NEABS
100,0	0,0

Lecturers: Mgr. Michaela Vargová, PhD.

Last change: 09.12.2022

Approved by:

STATE EXAM DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2-prUMAx-911/21	**Course title:** Thesis Defence
Number of credits: 0	
Educational level: N	
State exam syllabus:	
Last change: 16.06.2023	
Approved by:	