Course descriptions

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COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-302/21	Astronomy and Meteorology

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: doc. RNDr. Peter Demkanin, PhD.

Last change: 15.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KJFB/2-prUFYx-205/21	Atomic and Nuclear Physics

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: 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: 25

ABS	NEABS
96,0	4,0

Lecturers: doc. RNDr. Radoslav Böhm, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-116/21	Didactics of Physics

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 18s / 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: 27

ABS	NEABS
100,0	0,0

Lecturers: PaedDr. Tünde Kozánek Kiss, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

STATE EXAM DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2-prUFYx-913/21	**Course title:** Didactics of Physics
Number of credits: 0	
Educational level: N	
State exam syllabus:	
Last change: 25.09.2023	
Approved by: doc. RNDr. Peter Demkanin, PhD.	

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-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., doc. PaedDr. Klára Velmovská, PhD., PaedDr. Tünde Kozánek Kiss, PhD.

Last change: 12.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-202/21	Electromagnetism

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: 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
96,0	4,0

Lecturers: PaedDr. Peter Horváth, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/2-prUFYx-301/21	Electronics and Communication for Teachers

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: PaedDr. Lukáš Bartošovič, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-206/21	Experimental Methods in Physics

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: 25

ABS	NEABS
96,0	4,0

Lecturers: PaedDr. Tünde Kozánek Kiss, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-114/21	Introduction to Class Experiments

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: 27

ABS	NEABS
92,59	7,41

Lecturers: PaedDr. Peter Horváth, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-111/21	Introduction to Didactics of Physics

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 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: 46

ABS	NEABS
95,65	4,35

Lecturers: doc. PaedDr. Klára Velmovská, PhD.

Last change: 12.12.2025

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-201/21	Mathematical Methods for Solving Physical 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: 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
96,0	4,0

Lecturers: doc. PaedDr. Viera Haverlíková, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-101/21	Mathematical Methods in Physics

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: 46

ABS	NEABS
95,65	4,35

Lecturers: doc. PaedDr. Klára Velmovská, PhD.

Last change: 11.12.2025

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-102/21	Mechanics

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: 45

ABS	NEABS
93,33	6,67

Lecturers: PaedDr. Peter Horváth, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-113/21	Methods for Solving Physical Tasks

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 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: 27

ABS	NEABS
100,0	0,0

Lecturers: doc. PaedDr. Klára Velmovská, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-207/21	Molecular Physics and Thermodynamics

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: 25

ABS	NEABS
96,0	4,0

Lecturers: PaedDr. Lukáš Bartošovič, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

STATE EXAM DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2-prUFYx-912/21	**Course title:** Physics
Number of credits: 0	
Educational level: N	
State exam syllabus:	
Last change: 25.09.2023	
Approved by: doc. RNDr. Peter Demkanin, PhD.	

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-211/21	Practical in Class Experiments in Physics

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
96,0	4,0

Lecturers: PaedDr. Peter Horváth, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-311/21	Prospective Topics in School Physics

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 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. PaedDr. Viera Haverlíková, PhD.

Last change: 12.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-115/21	School Experiments in Physics

Educational activities:
Type of activities: lecture / independent work
Number of hours:
per week: **per level/semester:** 16s / 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: 27

ABS	NEABS
100,0	0,0

Lecturers: doc. PaedDr. Klára Velmovská, PhD.

Last change: 25.03.2023

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-112/21	School Physic

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: 45

ABS	NEABS
97,78	2,22

Lecturers: PaedDr. Tünde Kozánek Kiss, PhD.

Last change: 12.12.2025

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KTF/2-prUFYx-203/21	Selected Fields of Physical Research

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: 25

ABS	NEABS
100,0	0,0

Lecturers: doc. RNDr. Peter Demkanin, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KDMFI/2-prUFYx-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: 25

ABS	NEABS
96,0	4,0

Lecturers: PaedDr. Peter Horváth, PhD.

Last change: 16.06.2023

Approved by: doc. RNDr. Peter Demkanin, PhD.

STATE EXAM DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Mathematics, Physics and Informatics	
Course ID: FMFI.KDMFI/2-prUFYx-911/21	**Course title:** Thesis Defence
Number of credits: 0	
Educational level: N	
State exam syllabus:	
Last change: 16.06.2023	
Approved by: doc. RNDr. Peter Demkanin, PhD.	

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Faculty of Mathematics, Physics and Informatics

Course ID:	**Course title:**
FMFI.KEF/2-prUFYx-204/21	Waves and Optics

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: PaedDr. Tünde Kozánek Kiss, PhD.

Last change: 14.12.2022

Approved by: doc. RNDr. Peter Demkanin, PhD.