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: 14

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: FMFI.KDMFI/2-prUFYx-116/21	**Course title:** 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: 14

ABS	NEABS
100,0	0,0

Lecturers: doc. RNDr. Peter Demkanin, PhD., RNDr. Monika Dillingerová, 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: FMFI.KDMFI/2-prUFYx-202/21	**Course title:** 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: 14

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: 29

ABS	NEABS
96,55	3,45

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-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: 29

ABS	NEABS
100,0	0,0

Lecturers: doc. PaedDr. Klára Velmovská, PhD.

Last change: 09.12.2022

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-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: 29

ABS	NEABS
93,1	6,9

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

<table>
<tr><td colspan="2">Academic year: 2025/2026</td></tr>
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<tr><td colspan="2">Faculty: Faculty of Mathematics, Physics and Informatics</td></tr>
<tr><td>Course ID:
FMFI.KDMFI/2-prUFYx-211/21</td><td>Course title:
Practical in Class Experiments in Physics</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>
<tr><td colspan="2">Number of credits: 0</td></tr>
<tr><td colspan="2">Recommended semester: 3.</td></tr>
<tr><td colspan="2">Educational level: N</td></tr>
<tr><td colspan="2">Prerequisites:</td></tr>
<tr><td colspan="2">Course requirements:</td></tr>
<tr><td colspan="2">Learning outcomes:</td></tr>
<tr><td colspan="2">Class syllabus:</td></tr>
<tr><td colspan="2">Recommended literature:</td></tr>
<tr><td colspan="2">Languages necessary to complete the course:</td></tr>
<tr><td colspan="2">Notes:</td></tr>
<tr><td colspan="2">Past grade distribution
Total number of evaluated students: 25<table><tr><td>ABS</td><td>NEABS</td></tr><tr><td>96,0</td><td>4,0</td></tr></table></td></tr>
<tr><td colspan="2">Lecturers: PaedDr. Peter Horváth, PhD.</td></tr>
<tr><td colspan="2">Last change: 14.12.2022</td></tr>
<tr><td colspan="2">Approved by: doc. RNDr. Peter Demkanin, PhD.</td></tr>
</table>

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: 14

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: 29

ABS	NEABS
100,0	0,0

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.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.