

Course descriptions

TABLE OF CONTENTS

1. N-UmCH-952/22	Chemistry and Didactics of Chemistry (state exam).....	2
2. N-mCOR-106/22	Chemistry of Polymers.....	3
3. N-mUCH-103/22	Didactics of Chemistry 1.....	4
4. N-mUCH-104/22	Didactics of Chemistry 2.....	5
5. N-mUCH-105/22	Didactics of School Experiments in Chemistry 1.....	6
6. N-mUCH-106/22	Didactics of School Experiments in Chemistry 2.....	7
7. N-mUCH-107/22	Digital Technologies in Chemistry Education.....	8
8. N-mUCH-098/22	Everyday Life Chemistry.....	9
9. N-mUCH-101/22	Green Chemistry.....	10
10. N-mUCH-099/22	Industrial Chemistry for Teachers.....	11
11. N-mUXX-127/22	Means of Motivation in Teaching Chemistry.....	12
12. N-mUCH-112/22	Methods of Chemical Analysis in School Experiments.....	13
13. N-mUCH-112/22	Selected Chapters from Inorganic Chemistry.....	14
14. N-mUCH-001/22	Selected Chapters in Biochemistry.....	15
15. N-mUCH-100/22	Selected Topics in Organic Chemistry.....	16
16. N-mUCH-056/22	Selected Topics in Physical Chemistry.....	17
17. N-mUCH-110/22	Subject Competitions in Education.....	18
18. N-mUCH-108/22	Technical and Law Aspects of School Chemical Experiments.....	19

STATE EXAM DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Faculty of Natural Sciences	
Course ID: PriF.KDPP/N-UmCH-952/22	Course title: Chemistry and Didactics of Chemistry
Number of credits: 5	
Educational level: II.	
State exam syllabus:	
Last change: 20.06.2023	
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.	

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-mCOR-106/22		Course title: Chemistry of Polymers			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 3					
A	B	C	D	E	FX
0,0	100,0	0,0	0,0	0,0	0,0
Lecturers: Mgr. Juraj Kronek, PhD., Mgr. Zuzana Benková, PhD.					
Last change: 14.06.2023					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KDPP/N-mUCH-103/22		Course title: Didactics of Chemistry 1			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning					
Number of credits: 4					
Recommended semester: 1.					
Educational level: II.					
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					
A	B	C	D	E	FX
72,55	21,57	3,92	0,0	0,0	1,96
Lecturers: prof. RNDr. Miroslav Prokša, CSc., PaedDr. Dominik Šmida, PhD.					
Last change: 02.10.2024					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KDPP/N-mUCH-104/22		Course title: Didactics of Chemistry 2			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning					
Number of credits: 4					
Recommended semester: 2.					
Educational level: II.					
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					
A	B	C	D	E	FX
55,0	35,0	7,5	0,0	2,5	0,0
Lecturers: prof. RNDr. Miroslav Prokša, CSc., doc. PaedDr. Anna Drozdíková, PhD., PaedDr. Dominik Šmida, PhD.					
Last change: 09.08.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KDPP/N-mUCH-105/22		Course title: Didactics of School Experiments in Chemistry 1			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1.					
Educational level: II.					
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					
A	B	C	D	E	FX
23,53	45,1	15,69	9,8	3,92	1,96
Lecturers: doc. PaedDr. Anna Drozdíková, PhD., PaedDr. Dominik Šmida, PhD.					
Last change: 09.08.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KDPP/N-mUCH-106/22		Course title: Didactics of School Experiments in Chemistry 2			
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2.					
Educational level: II.					
Prerequisites: PriF.KDPP/N-mUCH-105/22 - Didactics of School Experiments in Chemistry 1					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 40					
A	B	C	D	E	FX
30,0	40,0	17,5	12,5	0,0	0,0
Lecturers: doc. PaedDr. Anna Drozdíková, PhD., PaedDr. Dominik Šmida, PhD.					
Last change: 09.08.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KDPP/N-mUCH-107/22		Course title: Digital Technologies in Chemistry Education			
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2.					
Educational level: II.					
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					
A	B	C	D	E	FX
87,5	10,0	2,5	0,0	0,0	0,0
Lecturers: PaedDr. Dominik Šmida, PhD.					
Last change: 22.09.2025					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-mUCH-098/22		Course title: Everyday Life Chemistry			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 3.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 15					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. Ing. Mária Mečiarová, PhD., Mgr. Henrieta Stankovičová, PhD.					
Last change: 13.09.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-mUCH-101/22		Course title: Green Chemistry			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 1.					
Educational level: II.					
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					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. Ing. Mária Mečiarová, PhD.					
Last change: 13.09.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-mUCH-099/22		Course title: Industrial Chemistry for Teachers			
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 3.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 50					
A	B	C	D	E	FX
38,0	34,0	20,0	0,0	6,0	2,0
Lecturers: RNDr. Jana Chrappová, PhD., Mgr. Tibor Peňaška, PhD.					
Last change: 10.07.2023					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KDPP/N-mUXX-127/22		Course title: Means of Motivation in Teaching Chemistry			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning					
Number of credits: 4					
Recommended semester: 4.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 16					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. RNDr. Miroslav Prokša, CSc.					
Last change: 22.08.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAlCh/N-mUCH-112/22		Course title: Methods of Chemical Analysis in School Experiments			
Educational activities: Type of activities: practicals / seminar Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning					
Number of credits: 3					
Recommended semester: 1., 3.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 1					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Radoslav Halko, PhD.					
Last change: 07.08.2025					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAgCh/N-mUCH-112/22		Course title: Selected Chapters from Inorganic Chemistry			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning					
Number of credits: 4					
Recommended semester: 1.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 55					
A	B	C	D	E	FX
12,73	18,18	34,55	18,18	9,09	7,27
Lecturers: RNDr. Jana Chrappová, PhD., doc. RNDr. Erik Rakovský, PhD.					
Last change: 14.09.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KBCh/N-mUCH-001/22		Course title: Selected Chapters in Biochemistry			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning					
Number of credits: 4					
Recommended semester: 3.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 50					
A	B	C	D	E	FX
26,0	22,0	18,0	26,0	8,0	0,0
Lecturers: doc. RNDr. Jana Korduláková, PhD.					
Last change: 27.07.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KOrCh/N-mUCH-100/22		Course title: Selected Topics in Organic Chemistry			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 2 / 2 per level/semester: 26 / 26 Form of the course: on-site learning					
Number of credits: 4					
Recommended semester: 1.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 54					
A	B	C	D	E	FX
27,78	18,52	12,96	22,22	11,11	7,41
Lecturers: doc. Ing. Mária Mečiarová, PhD., Mgr. Henrieta Stankovičová, PhD.					
Last change: 14.06.2023					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KFTCh/N-mUCH-056/22		Course title: Selected Topics in Physical Chemistry			
Educational activities: Type of activities: lecture / seminar Number of hours: per week: 1 / 1 per level/semester: 13 / 13 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2.					
Educational level: II.					
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					
A	B	C	D	E	FX
30,0	32,5	27,5	7,5	2,5	0,0
Lecturers: doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Vladimír Kellö, DrSc.					
Last change: 31.07.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KAgCh/N-mUCH-110/22		Course title: Subject Competitions in Education			
Educational activities: Type of activities: seminar Number of hours: per week: 2 per level/semester: 26 Form of the course: on-site learning					
Number of credits: 2					
Recommended semester: 2.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 12					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: RNDr. Jana Chrappová, PhD.					
Last change: 14.09.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					

COURSE DESCRIPTION

Academic year: 2025/2026					
University: Comenius University Bratislava					
Faculty: Faculty of Natural Sciences					
Course ID: PriF.KDPP/N-mUCH-108/22		Course title: Technical and Law Aspects of School Chemical Experiments			
Educational activities: Type of activities: practicals / seminar Number of hours: per week: 2 / 1 per level/semester: 26 / 13 Form of the course: on-site learning					
Number of credits: 3					
Recommended semester: 3.					
Educational level: II.					
Prerequisites:					
Course requirements:					
Learning outcomes:					
Class syllabus:					
Recommended literature:					
Languages necessary to complete the course:					
Notes:					
Past grade distribution Total number of evaluated students: 1					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. PaedDr. Anna Drozdíková, PhD.					
Last change: 22.08.2022					
Approved by: prof. RNDr. Anton Horváth, CSc., doc. RNDr. Peter Demkanin, PhD.					