

## Course descriptions

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## STATE EXAM DESCRIPTION

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

## COURSE DESCRIPTION

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

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KDPP/N-mUCH-103/22		<b>Course title:</b> Didactics of Chemistry 1			
<b>Educational activities:</b> <b>Type of activities:</b> lecture / seminar <b>Number of hours:</b> <b>per week:</b> 2 / 2 <b>per level/semester:</b> 26 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 4					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 41					
A	B	C	D	E	FX
70,73	24,39	2,44	0,0	0,0	2,44
<b>Lecturers:</b> prof. RNDr. Miroslav Prokša, CSc., Mgr. Lenka Šikulíncová, PhD., PaedDr. Dominik Šmida, PhD.					
<b>Last change:</b> 02.10.2024					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KDPP/N-mUCH-104/22		<b>Course title:</b> Didactics of Chemistry 2			
<b>Educational activities:</b> <b>Type of activities:</b> lecture / seminar <b>Number of hours:</b> <b>per week:</b> 2 / 2 <b>per level/semester:</b> 26 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 4					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 40					
A	B	C	D	E	FX
55,0	35,0	7,5	0,0	2,5	0,0
<b>Lecturers:</b> prof. RNDr. Miroslav Prokša, CSc., doc. PaedDr. Anna Drozdíková, PhD., PaedDr. Dominik Šmida, PhD.					
<b>Last change:</b> 09.08.2022					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KDPP/N-mUCH-105/22		<b>Course title:</b> Didactics of School Experiments in Chemistry 1			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 41					
A	B	C	D	E	FX
14,63	51,22	17,07	12,2	2,44	2,44
<b>Lecturers:</b> doc. PaedDr. Anna Drozdíková, PhD., PaedDr. Dominik Šmida, PhD.					
<b>Last change:</b> 09.08.2022					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					

## COURSE DESCRIPTION

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

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KDPP/N-mUCH-107/22		<b>Course title:</b> Digital Technologies in Chemistry Education			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 40					
A	B	C	D	E	FX
87,5	10,0	2,5	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Lenka Šikulíncová, PhD., PaedDr. Dominik Šmida, PhD.					
<b>Last change:</b> 22.08.2022					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					



## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KOrCh/N-mUCH-098/22		<b>Course title:</b> Everyday Life Chemistry			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 10					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> doc. Ing. Mária Mečiarová, PhD., Mgr. Henrieta Stankovičová, PhD.					
<b>Last change:</b> 13.09.2022					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KOrCh/N-mUCH-101/22		<b>Course title:</b> Green Chemistry			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 18					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> doc. Ing. Mária Mečiarová, PhD.					
<b>Last change:</b> 13.09.2022					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KOrCh/N-mUCH-099/22		<b>Course title:</b> Industrial Chemistry for Teachers			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 35					
A	B	C	D	E	FX
34,29	37,14	20,0	0,0	5,71	2,86
<b>Lecturers:</b> RNDr. Jana Chrappová, PhD., Mgr. Tibor Peňaška, PhD.					
<b>Last change:</b> 10.07.2023					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					

## COURSE DESCRIPTION

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

## COURSE DESCRIPTION

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

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KAgCh/N-mUCH-112/22		<b>Course title:</b> Selected Chapters from Inorganic Chemistry			
<b>Educational activities:</b> <b>Type of activities:</b> lecture / seminar <b>Number of hours:</b> <b>per week:</b> 2 / 2 <b>per level/semester:</b> 26 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 4					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 45					
A	B	C	D	E	FX
8,89	17,78	35,56	22,22	6,67	8,89
<b>Lecturers:</b> RNDr. Jana Chrappová, PhD., doc. RNDr. Erik Rakovský, PhD.					
<b>Last change:</b> 14.09.2022					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KBCh/N-mUCH-001/22		<b>Course title:</b> Selected Chapters in Biochemistry			
<b>Educational activities:</b> <b>Type of activities:</b> lecture / seminar <b>Number of hours:</b> <b>per week:</b> 2 / 2 <b>per level/semester:</b> 26 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 4					
<b>Recommended semester:</b> 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 35					
A	B	C	D	E	FX
14,29	20,0	22,86	31,43	11,43	0,0
<b>Lecturers:</b> doc. RNDr. Jana Korduláková, PhD.					
<b>Last change:</b> 27.07.2022					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KOrCh/N-mUCH-100/22		<b>Course title:</b> Selected Topics in Organic Chemistry			
<b>Educational activities:</b> <b>Type of activities:</b> lecture / seminar <b>Number of hours:</b> <b>per week:</b> 2 / 2 <b>per level/semester:</b> 26 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 4					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 43					
A	B	C	D	E	FX
27,91	20,93	13,95	20,93	6,98	9,3
<b>Lecturers:</b> doc. Ing. Mária Mečiarová, PhD., Mgr. Henrieta Stankovičová, PhD.					
<b>Last change:</b> 14.06.2023					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					



## COURSE DESCRIPTION

<b>Academic year:</b> 2025/2026					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KFTCh/N-mUCH-056/22		<b>Course title:</b> Selected Topics in Physical Chemistry			
<b>Educational activities:</b> <b>Type of activities:</b> lecture / seminar <b>Number of hours:</b> <b>per week:</b> 1 / 1 <b>per level/semester:</b> 13 / 13 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 40					
A	B	C	D	E	FX
30,0	32,5	27,5	7,5	2,5	0,0
<b>Lecturers:</b> doc. Mgr. Michal Pitoňák, PhD., prof. RNDr. Vladimír Kellö, DrSc.					
<b>Last change:</b> 31.07.2022					
<b>Approved by:</b> prof. RNDr. Anton Horváth, CSc.					

## COURSE DESCRIPTION

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

## COURSE DESCRIPTION

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